

IADR GENERAL[®] SESSION

SEOUL, REPUBLIC OF KOREA • JUNE 22-25, 2016

94th General Session & Exhibition of the IADR
3rd Meeting of the IADR Asia Pacific Region
35th Annual Meeting of the IADR Korean Division

COEX Convention & Exhibition Center
Seoul, Republic of Korea



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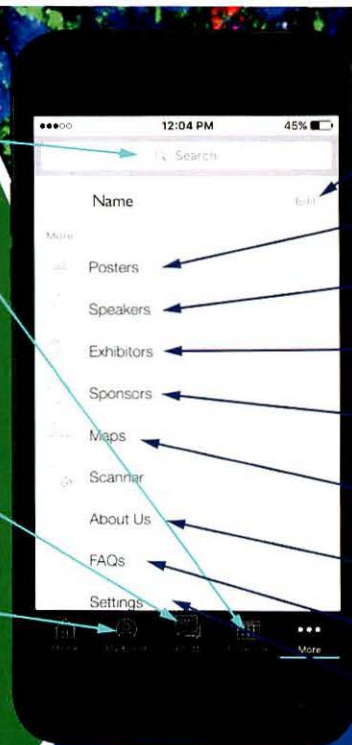


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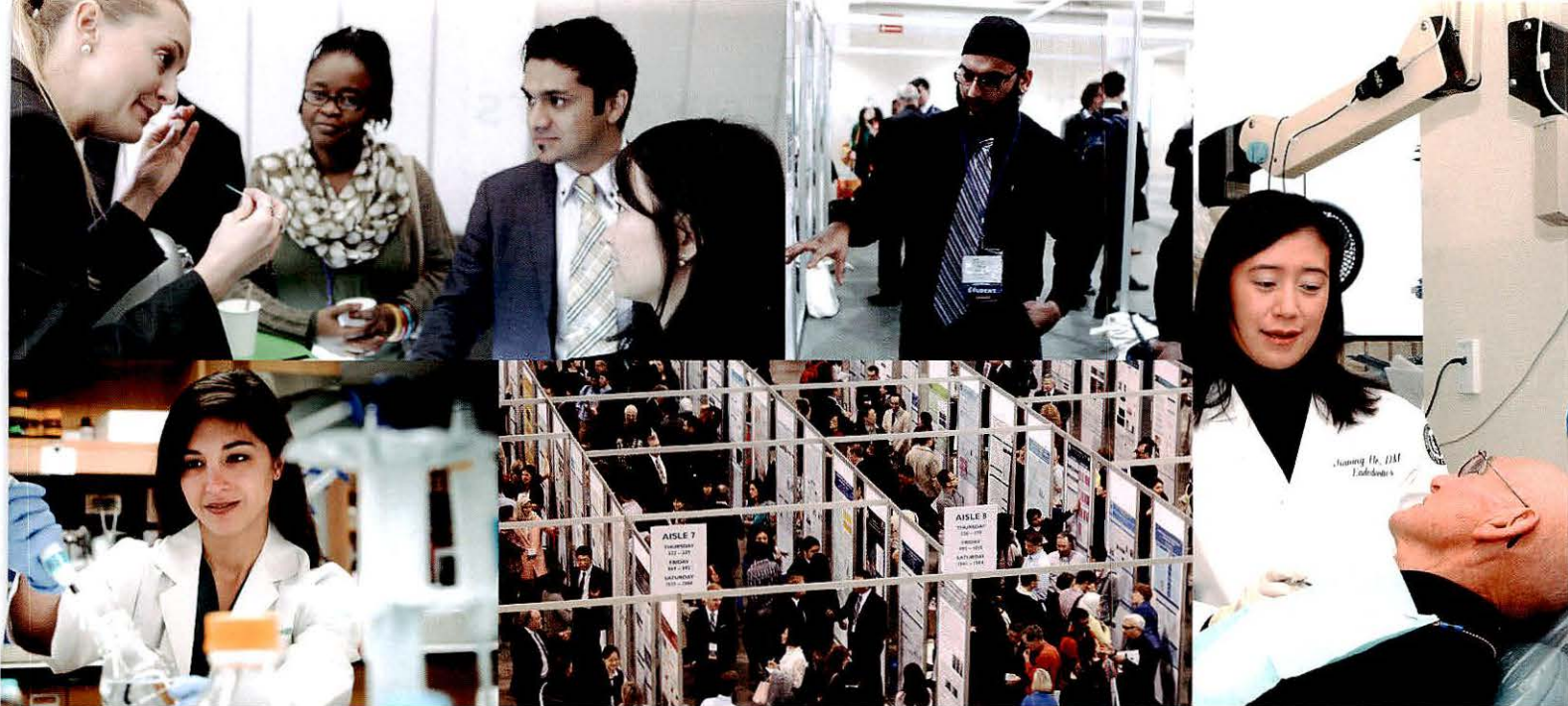
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SCHEDULE

KEY:

C – Clinician Track
CC – COEX Convention Center
E – Educator Track
IC – Intercontinental Seoul COEX Hotel

SEQ#	TIME	TYPE	GROUP	TRACK	SESSION TITLE	ROOM	PRESENTATION #
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MONDAY, JUNE 20, 2016

	8 a.m. – 5 p.m.				Hands-on Workshop (Seq #1)	CC	
I	HOW				Orofacial Pain Taxonomies and Phenotypes: Optimising the Diagnostic Axes I	CC, Room 403	0001–0002
	6p.m. – 7 p.m.				IADR GOHIRN/FDI/WHO Meeting (<i>invitation only</i>)	CC Room 300	

TUESDAY, JUNE 21, 2016

	8 a.m. – 5 p.m.				International RDC/TMD Network Optimising the DC/TMD Axis II (<i>invitation only</i>)	CC, Room 304	
	8 a.m. – 7 p.m.				IADR Unilever Hatton Competition – Junior and Senior (Clinical Research) Categories	CC, Room 310	
					IADR Unilever Hatton Competition – Senior (Basic Science) #1	CC, Room 314	
					IADR Unilever Hatton Competition – Senior (Basic Science) #2	CC, Room 311	
	8 a.m. – 5 p.m.				Hands-on Workshop (Seq #1)	CC	
I	HOW				Orofacial Pain Taxonomies and Phenotypes: Optimising the Clinical and Research Utility of DC/TMD Axis II	CC, Room 403	0003–0004
	9 a.m. – 12:30 p.m.				IADR Australia/New Zealand Division Council Meeting	CC, Room 203	
	9 a.m. – 6 p.m.				Satellite Symposium (Seq #2)	CC	
2	SAT SYM				4 th IADR Academy: Advanced Biotechnologies in Dental Research (<i>advance registration required</i>)	CC, Room 102	0008–0017
	12:30 p.m. – 2 p.m.				IADR Africa/Middle East Region Business Meeting	CC, Hall E1	
	1 p.m. – 4 p.m.				Satellite Symposium (Seq #3)	CC	
3	SAT SYM				The 2016 Oral Epi-Forum Satellite Symposium	CC, Room 402	0018–0019
	1 p.m. – 5 p.m.				IADR Council Meeting	CC, Room 103	
	1 p.m. – 5:30 p.m.				IADR Australia/New Zealand Division Colgate Poster Competition	CC, Room 101	
	2 p.m. – 8 p.m.				Indiana University Dental School Alumni Association Meeting	CC, Hall E1	
	2:30 p.m. – 6:30 p.m.				Registration Open	CC, Hall B Lobby	
					Speaker Ready Room Open	CC, Room 301A	
	4:30 p.m. – 6:30 p.m.				Oral Epi-Forum Reception (<i>invitation only</i>)	Off-site Venue	

WEDNESDAY, JUNE 22, 2016

	8 a.m. – 1 p.m.				Craniofacial Biology Research Group and Bernard Sarnat Awards Competition	CC, Room 304	
	8 a.m. – 5 p.m.				Registration Open	CC, Hall B Lobby	
					Speaker Ready Room	CC, Room 301A	
	8 a.m. – 5:30 p.m.				Coat and Bag Check	CC, Room 302	
	8:30 a.m. – 12 p.m.				Hands-on Workshop (Seq #1)	CC	
I	HOW				Orofacial Pain Taxonomies and Phenotypes: Plenary Session – Discussion and Final Recommendations	CC, Room 403	0005–0007
	9 a.m. – 12 p.m.				IADR Japanese Division Young Investigator Award Competition	CC, Room 301B	
	9 a.m. – 5 p.m.				Exhibitor Move In	CC, Hall B	
	10 a.m. – 11 a.m.				IADR Asia/Pacific Region (APR) Meeting	CC, Hall E5	
					IADR Pan European Regional (PER) Board Meeting	CC, Hall E2	
					Latin American Regional (LAR) Board Meeting	CC, Hall E1	
	10 a.m. – 5 p.m.				DMG Dental-Material Gesellschaft mbH Workshop (invitation only)	CC, Room 310	
	12 p.m. – 1 p.m.				Chinese Stomatological Association Luncheon (invitation only)	CC, Room 300	
	1:30 p.m. – 4 p.m.				Symposium (Seq #4)	CC	
4	SYM				IADR Presidential Symposium: Recent Advances in Orofacial Pain Research	CC, Room 401	0020–0026
	1:45 p.m. – 2:15 p.m.				New Member & First-Time Attendee Orientation	CC, Hall E4	
	2 p.m. – 2:15 p.m.				Session Chairperson Orientation	CC, Room 101	
	2:30 p.m. – 4 p.m.				Oral Sessions, Symposia & Hands-on Workshops (Seq #s 5–19, 21–25)	CC	
5	SYM		E		A Sociological/Anthropological Perspective on Oral Health Inequalities	CC, Hall E1	0027–0030
6	SYM		C		Clinical Investigations in Implant Dentistry: A Rainbow of Opportunities	CC, Hall E5	0031–0035
7	SYM		C, E		Digital Dentistry – New Dental Material and Standardized Experimental Protocol for CAD/CAM	CC, Room 307A	0036–0038
8	SYM		C, E		Immune Recognition and Dry Mouth Disease	CC, Hall E2	0039–0042
9	SYM		C, E		Pulp-dentin Complex Formation in Development, Repair and Regeneration	CC, Room 402	0043–0045
10	SYM		C, E		The Ortho-perio Connection: From Biology to the Clinic	CC, Room 403	0046–0049
11	ORAL	BEHSR			Practitioner & Student Perceptions	CC, Room 308BC	0050–0054
12	ORAL	CAR			Cariology – Clinical Studies I	CC, Room 203	0055–0058
13	ORAL	CRAN			Keynote Address; Craniofacial Biology I	CC, Room 101	0059–0062
14	ORAL	DAR			Anesthesia, Pain Control & Sedation: Efficacy, Toxicity & Special Care Patients I	CC, Room 317A	0063–0068
15	ORAL	DM			Analysis of Adhesive-tooth Interactions	CC, Room 104	0069–0074
16	ORAL	DM			Keynote Address; Adhesion to Current Ceramics Materials: Challenges and Opportunities	CC, Room 105	0075–0079

SEQ#	TIME	TYPE	GROUP	TRACK	SESSION TITLE	ROOM	PRESENTATION #
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WEDNESDAY, JUNE 22, 2016 (continued)

17	ORAL	DM			Bioactivity of Materials for Dental Treatment	CC, Room 102	0080-0084
18	ORAL	IMP			Implantology Research: Prospective, Retrospective & Animal Studies	CC, Room 208	0085-0090
19	ORAL	MI			Microbiology/Immunology – Periodontal Pathogens	CC, Room 307BC	0091-0096
20					Seq #20 has been moved to Thursday, June 23, 2016, 10:30 a.m. – 12:15 p.m. See page 7.		
21	ORAL	OHR			Community Oral Health I	CC, Hall E3	0102-0107
22	ORAL	OMP			Oral Medicine & Pathology I	CC, Room 317BC	0108-0111
23	ORAL	PERIO			Periodontal Research – Pathogenesis: Periodontal Disease & Systemic Conditions	CC, Room 327B	0112-0116
24	ORAL	PERIO			Advances in Periodontal Plastic Surgery	CC, Hall E4	0117-0121
25	ORAL	SAL			Salivary Research I	CC, Room 318C	0122-0125
	4:15 p.m. – 6 p.m.				Opening Ceremonies and Awards Program Featuring Distinguished Lecture Series Speaker	CC, Hall D2	
					Distinguished Lecture Series (Seq #26)	CC	
26	DLS				Health in All Policies – Key for Prevention of Noncommunicable Diseases Pekka Puska, Former Director General, National Institute for Health and Welfare, Helsinki, Finland	CC, Hall D2	126
	6 p.m. – 7 p.m.				Welcome Reception (<i>open to all registered attendees</i>) Entertainment provided by Professor Byung-Moo Min	CC, Hall B Lobby	
	6 p.m. – 8 p.m.				Dental Materials Group Reception (<i>ticketed event, sponsored by Bisco, Inc., Dentsply Sirona, GC Corporation, Heraeus Kulzer, Ivoclar Vivadent, Inc., Tokuyama Dental Corporation and VITA</i>)	CC, Lu Restaurant	
	7 p.m. – 8 p.m.				IADR Innovation in Oral Care Awards Reception (<i>invitation only, sponsored by GlaxoSmithKline</i>)	IC, Jupiter Room, 30 th Floor	
	7 p.m. – 9 p.m.				Korea Night Reception (<i>open to all registered attendees, sponsored by Osstem Implants, hosted by KADR</i>)	CC, Room 103	

THURSDAY, JUNE 23, 2016

	6:30 a.m. – 7:45 a.m.				BEHSR Executive Committee I	CC, Room 311	
	6:30 a.m. – 8 a.m.				IADR Australia/New Zealand Division Annual General Meeting, Reception and Awards Presentation	CC, Room 201	
	6:45 a.m. – 7:45 a.m.				IADR Prosthodontics Research Group Executive Officers Meeting	CC, Room 304	
	7 a.m. – 5 p.m.				Registration Open	CC, Hall B Lobby	
					Speaker Ready Room Open	CC, Room 301A	
	7 a.m. – 5:30 p.m.				Coat and Bag Check	CC, Room 302	
	7:30 a.m. – 8 a.m.				Poster Set Up	CC, Hall B	
	8 a.m. – 9:30 a.m.				Oral Sessions & Symposia (Seq #s 27-50)		
27	SYM		C, E		Bone Biology Research	CC, Hall E5	0127-0129
28	SYM		C, E		Clinical Translational Research on Dental Pulp Regeneration	CC, Hall E1	0130-0133

SEQ#	TIME	TYPE	GROUP	TRACK	SESSION TITLE	ROOM	PRESENTATION #
THURSDAY, JUNE 23, 2016 (continued)							
29		SYM		C, E	Early Detection and Prevention of Oral Disease	CC, Room 327A	0134–0137
30		SYM		C, E	How the OMICS are Contributing to the Understanding of Caries	CC, Room 401	0138–0141
31		SYM		C, E	Molecular Genetics of Craniofacial Development and Disease	CC, Hall E3	0142–0145
32		SYM		C, E	Oral Health Behavioral Initiatives That Work for Global Indigenous Populations	CC, Room 307A	0146–0149
33		SYM			Sending the Right Signals During Tooth Development and Regeneration	CC, Room 403	0150–0152
34		SYM		C, E	What is Translational Multi-disciplinary Research?	CC, Hall E2	0153–0156
35		ORAL	BEHSR		Keynote Address; Legacy of Professor Aubrey Sheiham	CC, Room 308BC	0157–0161
36		ORAL	CAR		Cariology Research – Demineralization/Remineralization I	CC, Room 203	0162–0166
37		ORAL	CAR		Cariology Research – Microbiological Studies/Biofilm I	CC, Room 208	0167–0172
38		ORAL	DM		Biofunctionalization & Biological Effects of Dental Material Surfaces	CC, Room 102	0173–0177
39		ORAL	DM		Dental Materials: Polymer-based Materials I	CC, Room 105	0178–0182
40		ORAL	DM		Keynote Address; Adhesives in Operative Dentistry	CC, Room 104	0183–0187
41		ORAL	EDU		Developing Clinical Skills: Learning Outcomes & Simulation	CC, Room 317A	0188–0192
42		ORAL	MI		Microbiology/Immunology – <i>Candida albicans</i> Infections	CC, Room 307BC	0193–0197
43		ORAL	NUT		Keynote Address; Nutrition I	CC, Room 308A	0198–0200
44		ORAL	OHR		Oral Pathology & Treatment I	CC, Room 317BC	0201–0204
45		ORAL	OMS		Oral & Maxillofacial Surgery I	CC, Room 318B	0205–0207
46		ORAL	PERIO		Systemic Conditions & Periodontal Disease Epidemiology I	CC, Room 101	0208–0213
47		ORAL	PERIO		Keynote Address; New Frontiers in Periodontal Regeneration	CC, Hall E4	0214–0218
48		ORAL	PROS		Frechette Award	CC, Room 402	0219–0224
49		ORAL	PB		Dental Pulp Stem Cell Biology, Neurodifferentiation & Angiogenesis	CC, Room 318C	0225–0228
50		ORAL	SCB		Stem Cells & Signaling	CC, Room 327B	0229–0233
	8 a.m. – 10 a.m.				The J. Morita Award Poster Competition	CC, Room 300	
	8 a.m. – 11 a.m.				IADR Joseph Lister Award Poster Competition (sponsored by Johnson & Johnson Consumer Inc.)	CC, Room 318A	
	8 a.m. – 5 p.m.				3M Oral Care Hospitality Center & Internet Zone	CC, Hall B	
					Poster Viewing Open	CC, Hall B	
	9 a.m. – 12 p.m.				IADR Neuroscience Wiley-Blackwell Publishing Young Investigators Research Award	CC, Room 310	
	9 a.m. – 5 p.m.				Exhibit Hall Open	CC, Hall B	
	9:45 a.m. – 10:30 a.m.				Distinguished Lecture Series (Seq #51)	CC	

SEQ#	TIME	TYPE	GROUP	TRACK	SESSION TITLE	ROOM	PRESENTATION #
THURSDAY, JUNE 23, 2016 (continued)							
51		DLS			Synaptic Brain Dysfunction Eunjoon Kim, Director and Professor, Center for Synaptic Brain Dysfunctions, Institute for Basic Science (IBS), and Department of Biological Sciences, Korea Advanced Institute of Science and Technology (KAIST), Daejeon, Republic of Korea	CC, Hall D2	234
	10 a.m. – 11 a.m.				Coffee Break – 3M Oral Care Hospitality Center & Internet Zone	CC, Hall B	
	10:45 a.m. – 12:15 p.m.				Oral Sessions, Symposia & Hands-on Workshops (Seq #s 20, 52–74)	CC	
52		HOW		C, E	Abstract Quality: Getting Better	CC, Room 307A	0235–0237
53		SYM		C, E	MRONJ: Incidence, Pathophysiology, Diagnosis, and Treatment	CC, Room 327A	0238–0241
54		SYM		C, E	Reducing Oral Health Inequalities in Elders Through Promoting Self-Care Practice	CC, Room 403	0242–0244
55		SYM		C, E	Setting Standards for Measuring Inequalities in Oral Health	CC, Hall E2	0245–0248
56		SYM		C, E	Tissue Engineering and Dental Regeneration	CC, Hall E3	0249–0252
57		SYM		C, E	Wnt Signaling in Development, Inflammation and Regeneration	CC, Hall E5	0253–0255
58		ORAL	BEHSR		Oral Health in Global Populations	CC, Room 308BC	0256–0261
59		ORAL	CAR		Keynote Address; Cariology Research – Detection, Risk Assessment & Others I	CC, Room 203	0262–0266
60		ORAL	CTSN		Clinical & Translational Science I	CC, Room 317A	0267–0272
61		ORAL	CRAN		Craniofacial Biology II	CC, Room 101	0273–0277
62		ORAL	DM		Dental Materials: Polymer-based Materials II	CC, Room 105	0278–0283
63		ORAL	DM		Keynote Address; Lasers in Dentistry	CC, Room 104	0284–0287
64		ORAL	DM		Keynote Address; Clinical Trials: Postoperative Sensitivity, Miscellaneous I	CC, Room 102	0288–0292
65		ORAL	DIA		Diagnostic Sciences I	CC, Room 308A	0293–0298
66		ORAL	IMP		Prospective Studies on Dental Implants I	CC, Room 208	0299–0304
67		ORAL	MT		Osteoclasts & Osteoblasts	CC, Room 307BC	0305–0310
68		ORAL	MT		Regulation of Mineralization	CC, Hall E4	0311–0316
20		ORAL	NEU		Keynote Address; TMD & Related Pain Conditions I	CC, Room 327B	0097–0101
69		ORAL	OHR		Dental Plaque Control I	CC, Hall E1	0317–0322
70		ORAL	OMP		Oral Medicine & Pathology II	CC, Room 317BC	0323–0327
71		ORAL	POHR		Pediatric Oral Health Research: Community Programs, Caregivers & Clinical Outcomes	CC, Room 318B	0328–0333
72		ORAL	PERIO		Periodontal Research-Pathogenesis: Periodontal Disease Markers	CC, Room 401	0334–0339
73		ORAL	PROS		Zirconia Experience in Fixed Prosthodontics	CC, Room 402	0340–0344
74		ORAL	SAL		Salivary Research II	CC, Room 318C	0345–0348
	12:30 p.m. – 1:45 p.m.				IADR and Joint Committees' Lunch (<i>invitation only</i>)	CC, Room 201	
					IADR Colgate Research in Prevention Travel Award Luncheon (<i>invitation only</i>)	CC, Room 300	

THURSDAY, JUNE 23, 2016 (continued)

75	12:30 p.m. – 1:45 p.m.				Lunch & Learning: Table #s 1–12 (<i>ticketed event</i>)		
	LL		C, E		Fractal Geometry for Failure Analysis of Ceramics	CC, Room 103	
	LL		C, E		How to Decide Loading Protocols After Implant Surgery	CC, Room 103	
	LL		C, E		Benefits of Laser Therapy on Nerve Repair	CC, Room 103	
	LL		C, E		Sugar and Public Health, Including Dental Disease	CC, Room 103	
	LL		C, E		Adult Stem Cell Culture for Salivary Gland Regeneration: Where are We Now?	CC, Room 103	
	LL		C, E		Effects of Environmental Change on Human Health – A Contribution of Caregivers	CC, Room 103	
	LL		C, E		How Different Periodontal Treatments Affect the Periodontal Microbial Ecology	CC, Room 103	
	LL		C, E		Biomarkers of Periodontal Disease in Gingival Crevicular Fluid	CC, Room 103	
	LL		C, E		Emerging Regenerative Approaches for Periodontal Regeneration	CC, Room 103	
	LL		C, E		New Paradigm Linking Periodontal Disease and Systemic Diseases	CC, Room 103	
	LL		E		Designing Clinically Relevant Basic Science Projects	CC, Room 103	
	LL		C		Relationship Between Periodontitis and Rheumatoid Arthritis	CC, Room 103	
	12:30 p.m. – 2:30 p.m.				IADR-SEA Division/Joseph Lister Awards in Oral Disease Prevention (<i>invitation only</i>)	CC, Room 311	
					IADR-SEA Unilever Hatton Divisional Award (Junior Category)	CC, Room 315	
	12:30 p.m. – 3 p.m.				IADR-SEA Unilever Hatton Divisional Award (Senior Category)	CC, Room 314	
	1 p.m. – 3 p.m.				Japanese Association for Dental Research Annual General Assembly	CC, Room 402	
					Industry-sponsored Symposium: Preservation of Dental Hard Tissue – What Patients Want, What We Do Today and What We Might Do in the Future (<i>sponsored by DMG Dental-Material GmbH</i>)	CC, Room 203	
					Industry-sponsored Symposium: Periodontitis, Cardiovascular Disease and Diabetes: A Role for Good Oral Health (<i>sponsored by Philips Oral Healthcare</i>)	CC, Room 102	
	1:30 p.m. – 3:30 p.m.				Industry-sponsored Symposium: Host Modulation Therapy: New Concepts for Clinical Application (<i>sponsored by LION Corporation</i>)	CC, Room 101	
	2 p.m. – 3 p.m.				Coffee Break – 3M Oral Care Hospitality Center & Internet Zone	CC, Hall B	
					IADR Scientific Group/Network Officers' Meeting	CC, Hall E2	
	2 p.m. – 4 p.m.				Tour of Seoul National University School of Dentistry (SNUSD) (<i>advance registration required</i>)	SNUSD – transportation provided at North Entrance, in front of Grand Ballroom	



SEQ#	TIME	TYPE	GROUP	TRACK	SESSION TITLE	ROOM	PRESENTATION #
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THURSDAY, JUNE 23, 2016 (continued)

2 p.m. – 3:15 p.m.			Poster Presentations (Seq #s 76–96)	CC	
76	POS	BEHSR	Risk, QoL & Life-Course Factors	CC, Hall B	0349–0362
77	POS	CAR	Cariology Research-Fluoride & Ca-based Products I	CC, Hall B	0363–0368
78	POS	CAR	Cariology Research-Microbiological Studies/Biofilm V	CC, Hall B	0369–0383
79	POS	CTSN	Clinical & Translational Science II	CC, Hall B	0384–0389
80	POS	CRAN	Craniofacial Syndrome	CC, Hall B	0390–0397
81	POS	DM	Current Dental Ceramics: Mechanical Properties, Adaptation & Adhesion	CC, Hall B	0398–0413
82	POS	DM	Dental Materials: Polymer-based Materials IV	CC, Hall B	0414–0424
83	POS	DM	Biological Effects of Dental Biomaterials	CC, Hall B	0425–0440
84	POS	DM	Dental Materials: Clinical Trials II	CC, Hall B	0441–0446
85	POS	DIA	Diagnostic Sciences V	CC, Hall B	0447–0454
86	POS	EDU	Student Recruitment, Perceptions & Learning Behavior	CC, Hall B	0455–0464
87	POS	IMP	Implantology Research on Implant Materials	CC, Hall B	0465–0481
88	POS	MI	Microbiology/Immunology – Oral <i>Streptococci</i> and <i>Candida albicans</i>	CC, Hall B	0482–0494
89	POS	NEU	Neuroscience Basic Research	CC, Hall B	0495–0506
90	POS	OHR	Oral & Systemic Health	CC, Hall B	0507–0517
91	POS	OMP	Oral Medicine & Pathology VII	CC, Hall B	0518–0529
92	POS	OMS	Oral & Maxillofacial Surgery V	CC, Hall B	0530–0544
93	POS	PERIO	Periodontal Regeneration & Wound Healing	CC, Hall B	0545–0557
94	POS	PERIO	Periodontal Research – Pathogenesis <i>In Vivo</i>	CC, Hall B	0558–0572
95	POS	PERIO	Systemic Conditions & Periodontal Disease Epidemiology II	CC, Hall B	0573–0590
96	POS	PROS	Clinical & Laboratory Studies in Contemporary Ceramics	CC, Hall B	0591–0597
3 p.m. – 4 p.m.			IADR Institutional Section and Deans' Meeting	CC, Hall E1	
3:30 p.m. – 4:45 p.m.			Poster Presentations (Seq #s 97–113)	CC	
97	POS	BEHSR	Oral Health Care	CC, Hall B	0598–0608
98	POS	CAR	Cariology Research – Microbiological Studies/ Biofilm III	CC, Hall B	0609–0619
99	POS	CRAN	Clinical Orthodontics	CC, Hall B	0620–0638
100	POS	DM	Dental Materials: Polymer-based Materials VI	CC, Hall B	0639–0653
101	POS	DM	Physical & Chemical Functionalization of Dental Materials	CC, Hall B	0654–0661
102	POS	DM	Effect of Pre-treatments & Application Mode on Dental Adhesion	CC, Hall B	0662–0677
103	POS	DM	Light Curing & Miscellaneous Devices/Instruments	CC, Hall B	0678–0686
104	POS	IMP	Implantology Research on Dental Implant Surgery	CC, Hall B	0687–0699
105	POS	MI	Microbiology/Immunology – Oral Immunology & Inflammation	CC, Hall B	0700–0718
106	POS	OHR	Dental Plaque Control II	CC, Hall B	0719–0741

THURSDAY, JUNE 23, 2016 (continued)

107		POS	OMP		Oral Medicine & Pathology IV	CC, Hall B	0742-0752
108		POS	PERIO		Bone Regeneration & Wound Healing	CC, Hall B	0753-0765
109		POS	PERIO		Periodontal Research, Epidemiology, Miscellaneous	CC, Hall B	0766-0777
110		POS	PERIO		Periodontal Research – Pathogenesis <i>In Vitro</i> I	CC, Hall B	0778-0790
111		POS	PROS		Clinical Trials in Prosthodontics	CC, Hall B	0791-0801
112		POS	PB		Stem Cell Biology & Odontogenic Differentiation	CC, Hall B	0802-0817
113		POS	WISN		Women in Science	CC, Hall B	0818
4 p.m. – 5 p.m.					International RDC/TMD Network Business Meeting	CC, Room 307BC	
					IADR Division/Section Treasurers' Meeting	CC, Room 318A	
					IADR Honorary Membership Committee	CC, Room 203	
					IADR Young Investigator Award Committee	CC, Room 208	
4 p.m. – 6 p.m.					IADR Pediatric Oral Health Research Business Meeting	CC, Room 402	
5 p.m. – 6 p.m.					IADR Behavioral, Epidemiologic, and Health Services Research Group Business Meeting	CC, Room 105	
					IADR Cariology Research Group Business Meeting	CC, Room 104	
					IADR Craniofacial Biology Research Group Business Meeting	CC, Room 103	
					IADR Dental Materials Research Group Business Meeting and IADR Heraeus Kulzer Travel Awards	CC, Room 102	
					IADR Education Research Group Business Meeting	CC, Room 201	
					IADR Geriatric Oral Research Group Business Meeting	CC, Room 203	
					IADR Implantology Research Group Business Meeting	CC, Room 101	
					IADR Mineralized Tissue Research Group Business Meeting	CC, Room 300	
					IADR Neuroscience Research Group Business Meeting	CC, Room 327A	
					IADR Oral Health Research Group Business Meeting	CC, Room 401	
					IADR Oral Medicine and Pathology Research Group Reception	CC, Room 403	
					IADR Periodontal Research Group Business Meeting	CC, Room 308BC	
					IADR Prosthodontic Research Group Business Meeting	CC, Room 318B	
					IADR Pulp Biology Research Group Business Meeting	CC, Room 327B	
					IADR Salivary Research Group Business Meeting	CC, Room 308A	
					IADR Stem Cell Biology Research Group Business Meeting	CC, Room 307A	



SEQ#	TIME	TYPE	GROUP	TRACK	SESSION TITLE	ROOM	PRESENTATION #
THURSDAY, JUNE 23, 2016 (continued)							
	6 p.m. – 7 p.m.				IADR Cariology Research Group Reception	CC, Room 104	
					IADR Education Research Group Reception	CC, Room 201	
					IADR Oral Health Research Group Reception	CC, Room 401	
					IADR Oral Medicine and Pathology Research Group Business Meeting	CC, Room 403	
					IADR Periodontal Research Group Reception	CC, Room 308BC	
					IADR Salivary Research Group Reception	CC, Room 308A	
					Joint Reception of the IADR Behavioral, Epidemiologic, and Health Services, Geriatric Oral Health, and Nutrition Research Groups	CC, Room 105	
	6 p.m. – 7:30 p.m.				Joint Reception of the IADR Implantology and Prosthodontic Research Groups	CC, Room 101	
					Joint Reception of the IADR International RDC/TMD Consortium Network and Neuroscience Research Groups	CC, Room 327A	
					Joint Reception of the IADR Mineralized Tissue, Craniofacial Biology, and Pulp Biology and Regeneration Research Groups	CC, Room 103	
	6:30 p.m. – 8 p.m.				Jerusalem Night Reception – Promotion of the 2016 IADR/PER Congress (sponsored by Israel Ministry of Tourism)	CC, Room 102	

Periodontitis, Cardiovascular Disease and Diabetes: A Role For Good Oral Health

Symposium

More and more information is becoming available about the important relationship between general health and oral health.

There is increasingly strong evidence of an association between gingival/periodontal disease and atherosclerotic cardiovascular disease (ACVD). Plausible mechanisms, including genetic pleiotropy, have been researched to explain the links between periodontal diseases and ACVD. Further, intervention studies to improve periodontal conditions have shown not only resolution of oral inflammatory processes, but also improvements in general health, such as the vascular system. In particular, the systemic condition of those who are already afflicted with cardiovascular diseases or diabetes, shows significant improvements.

When

1.p.m- 3.p.m June 23rd

Where

Room-102
COEX Covention Center, 513
Yeongdong-daero , Gangnam-gu,
Seoul

Speaker

Prof. Dr. Bruno Loos
DDS, MS, PhD
Academic Center for Dentistry Amsterdam (ACTA)
Chairman of the section Periodontology/Oral Biochem



SEQ#	TIME	TYPE	GROUP	TRACK	SESSION TITLE	ROOM	PRESENTATION #
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THURSDAY, JUNE 23, 2016 (continued)

7 p.m. – 8:30 p.m.					Japan Night Reception (<i>invitation only, sponsored by GC Corporation</i>)	IC, Harmony Ballroom	
					Peking University School of Stomatology Academic Reception (<i>invitation only</i>)	CC, Room 208	
					Seoul National University Reception (<i>invitation only</i>)	CC, Lu Restaurant	

FRIDAY, JUNE 24, 2016

7 a.m. – 8 a.m.					BEHSR Executive Committee 2	CC, Room 311	
7 a.m. – 5 p.m.					Registration Open	CC, Hall B Lobby,	
					Speaker Ready Room Open	CC, Room 301A	
7 a.m. – 5:30 p.m.					Coat and Bag Check	CC, Room 302	
7:30 a.m. – 8 a.m.					Poster Set Up	CC, Hall B	
8 a.m. – 9:30 a.m.					Oral Sessions & Symposia (Seq #s 114–135)	CC	
114	SYM			C, E	Contemporary Concepts of Periodontal Tissue Regeneration and Stem Cell Research	CC, Room 307A	0819–0823
115	SYM			C, E	Dental Care-Related Fear/Anxiety Research: International Perspectives	CC, Hall E1	0824–0827
116	SYM			E	Evidence-Based Practice Teaching and Learning in the Dental Curriculum	CC, Room 327A	0828–0830
117	SYM				Mineralized Tissue Regeneration: Nano-Interfaces and Bioengineered Materials	CC, Room 402	0831–0834
118	SYM				Odontoblast Biology: The Past, Present and Future	CC, Hall E2	0835–0838
119	SYM			C, E	Pathogenicity of Oral Microbes	CC, Hall E3	0839–0842
120	SYM			C, E	Saliva and Salivary Glands: How to Make Things New?	CC, Room 403	0843–0845
121	ORAL	CAR			Keynote Address; Cariology Research-Erosion I	CC, Room 203	0846–0850
122	ORAL	CRAN			TMJ Biology & Occlusion	CC, Room 101	0851–0854
123	ORAL	DM			Processing Methods & Mechanical Behavior of Dental Ceramics: Zirconia, Lithium Dissilicate and Porcelain	CC, Room 105	0855–0860
124	ORAL	DM			Metal-based Materials & Other Materials I	CC, Room 102	0861–0865
125	ORAL	DM			Keynote Address; Reconstruction of Endodontically Treated Teeth & Functional Adhesive Monomers	CC, Room 104	0866–0870
126	ORAL	EDU			Student/Practitioner Learning: Feedback, Reflection, Assessment	CC, Room 317A	0871–0876
127	ORAL	GOHIRN			Global Issues & Older Adults	CC, Room 308BC	0877–0881
128	ORAL	IMP			Prospective Studies on Dental Implants II	CC, Room 208	0882–0886
129	ORAL	MI			Microbiology/Immunology – Host Response to Pathogens	CC, Room 307BC	0887–0892
130	ORAL	NEU			Bruxism	CC, Room 318B	0893–0898
131	ORAL	PERIO			Intraoral & Systemic Effects of Periodontal Therapy	CC, Hall E4	0899–0904
132	ORAL	PERIO			Periodontal Research – Pathogenesis: Molecular Mechanisms I	CC, Room 401	0905–0910
133	ORAL	PTT			Keynote Address; Development of Drugs for Local Treatment of Oral Conditions	CC, Room 308A	0911–0914
134	ORAL	PB			Inflammation & Immunity in the Dental Pulp	CC, Room 318C	0915–0920

SEQ#	TIME	TYPE	GROUP	TRACK	SESSION TITLE	ROOM	PRESENTATION #
FRIDAY, JUNE 24, 2016 (continued)							
135	ORAL	SCB			Stem Cell Biology & Tissue Engineering	CC, Room 327B	0921–0925
	8 a.m. – 5 p.m.				3M Oral Care Hospitality Center & Internet Zone	CC, Hall B	
					Poster Viewing Open	CC, Hall B	
	9 a.m. – 5 p.m.				Exhibit Hall Open	CC, Hall B	
	9:45 a.m. – 10:30 a.m.				Distinguished Lecture Series (Seq #s 136)	CC	
136	DLS				Designed Chemical Synthesis and Assembly of Uniform-sized Nanoparticles for Medical Application Taeghwan Hyeon, Director of Center for Nanoparticle Research, Institute for Basic Science (IBS), School of Chemical and Biological Engineering, Seoul National University, Seoul, Republic of Korea	CC, Hall D2	0926
	10 a.m. – 11 a.m.				Coffee Break – 3M Oral Care Hospitality Center & Internet Zone	CC, Hall B	
	10:45 a.m. – 12:15 p.m.				Oral Sessions, Symposia & Hands-on Workshops (Seq #s 137–159)	CC	
137	HOW		C, E		Human Resources for Oral Health: Planning to Address Inequalities	CC, Room 307A	0927–0928
138	SYM		C		Antibacterial and Bioactive Dental Restorative Materials: Do They Really Work?	CC, Hall E1	0929–0932
139	SYM		C, E		Esthetic Considerations for Primary Teeth	CC, Hall E2	0933–0936
140	SYM				Immunomodulatory Role of Dental Stem Cells	CC, Hall E3	0937–0939
141	SYM				Microenvironments for Mineralized Tissue Engineering	CC, Room 327A	0940–0943
142	SYM		C, E		Periodontal Pathogens and Modulation of Host Immune Responses	CC, Room 327B	0944–0947
143	SYM		C, E		Stem Cells and Biomedical Engineering	CC, Room 403	0948–0950
144	SYM		C, E		Translational Regenerative Approaches for Dental and Craniofacial Applications	CC, Hall E5	0951–0954
145	ORAL	BEHSR			Determinants of Caries	CC, Room 308BC	0955–0959
146	ORAL	DM			Keynote Address; Dental Materials: Polymer-based Materials III	CC, Room 105	0960–0964
147	ORAL	DM			Keynote Address; Biocompatibility & Biologic Effects of Traditional & New Dental Materials	CC, Room 102	0965–0968
148	ORAL	DM			Keynote Address; Clinical Trials: Clinical Performance of Adhesives & Composites	CC, Room 104	0969–0973
149	ORAL	DIA			Diagnostic Sciences II	CC, Room 317A	0974–0979
150	ORAL	EBD			Evidence-based Research I	CC, Room 308A	0980–0984
151	ORAL	GOR			Keynote Address; Geriatric Oral Health, Health and Occlusion	CC, Room 203	0985–0989
152	ORAL	IMP			Implantology Research: Biofilm, Mouthrinses, Basic Science	CC, Room 208	0990–0995
153	ORAL	MI			Microbiology/Immunology – Virulence Properties	CC, Room 307BC	0996–1000
154	ORAL	MT			Mineralized Tissue Disorders & Regeneration	CC, Hall E4	1001–1006
155	ORAL	OHR			Health Services Research	CC, Room 317BC	1007–1010

FRIDAY, JUNE 24, 2016 (continued)

156		ORAL	POHR		Pediatric Oral Health Research: Randomized Clinical Trials, Behavioral Factors & Clinical Outcomes	CC, Room 318B	1011–1016
157		ORAL	PERIO		Periodontal Diagnosis	CC, Room 101	1017–1021
158		ORAL	PERIO		Periodontal Research – Pathogenesis: Molecular Mechanisms II	CC, Room 401	1022–1027
159		ORAL	PROS		Treatment Outcomes With Implants & Supported Prosthesis	CC, Room 402	1028–1032
	12:30 p.m. – 1:45 p.m.				IADR Past Executives' Business Meeting (invitation only, sponsored by Johnson & Johnson Consumer Inc.)	CC, Room 318A	
					Meet-a-Mentor Lunch Table #s 1–6 (ticketed event)	CC, Room 201	
160	12:30 p.m. – 1:45 p.m.				Lunch & Learning: Table #s 13–23 (ticketed event)	CC, Room 103	
	LL				Sensory Testing in Orofacial Pain Evaluation	CC, Room 103	
	LL			C, E	Oral Health in Older People: What Data and Data Linkage Would Assist Research?	CC, Room 103	
	LL			C, E	Implant Surface Finish, Now and Then	CC, Room 103	
	LL			C, E	Standardized Assessment Protocol for Temporomandibular Disorders	CC, Room 103	
	LL			C, E	Motor Learning and Bruxism	CC, Room 103	
	LL			C, E	The Use of Lasers During Non-surgical Periodontal Therapy	CC, Room 103	
	LL			C, E	Peri-implantitis: Should We Treat or Remove the Implant?	CC, Room 103	
	LL			C, E	Potential Uses of Mesenchymal Stem Cells in Periodontics	CC, Room 103	
	LL			C	Tooth Extraction and Ridge Preservation	CC, Room 103	
	LL			C, E	Designing a Clinical Trial for Root Coverage Therapies	CC, Room 103	
	LL				The Challenges in Measuring Caries to Understand Host Susceptibility Factors	CC, Room 103	
	12:30 p.m. – 2 p.m.				Evidence-based Dentistry Network Business Meeting	CC, Room 327C	
	1 p.m. – 3 p.m.				Industry-sponsored Symposium: Probiotics – Safety and Efficacy for Dental Health (sponsored by BioGaia ProDentis)	CC, Room 208	
	1 p.m. – 5:30 p.m.				IADR-SEA Dentsply Student Clinician Program	CC, Hall E1	
	2 p.m. – 3 p.m.				Coffee Break – 3M Oral Care Hospitality Center & Internet Zone	CC, Hall B	
					IADR Corporate Sections Meeting	CC, Hall E2	
					JDR Clinical & Translational Research Scientific Advisory Board Meeting	CC, Room 307A	
					Self-care for TMD Round Table Discussion (invitation only)	CC, Hall E3	
	2 p.m. – 3:15 p.m.				Poster Presentations (Seq #s 161–180)	CC	
161		POS	BEHSR		Caries Prevention & Oral-Systemic Link	CC, Hall B	1033–1046
162		POS	CAR		Cariology Research – Demineralization/Remineralization II	CC, Hall B	1047–1064



SEQ#	TIME	TYPE	GROUP	TRACK	SESSION TITLE	ROOM	PRESENTATION #
FRIDAY, JUNE 24, 2016 (continued)							
163		POS	CAR		Clinical Studies in Cariology – Epidemiology & Treatment	CC, Hall B	1065–1073
164		POS	CRAN		TMJ & Sleep Apnea	CC, Hall B	1074–1084
165		POS	DAR		Anesthesia, Pain Control & Sedation: Efficacy, Toxicity & Special Care Patients II	CC, Hall B	1085–1092
166		POS	DM		MTA Cements, Bioglasses & Hidroxiapatite	CC, Hall B	1093–1102
167		POS	DM		Universal Adhesives & Dentin Treatments in Adhesive Dentistry	CC, Hall B	1103–1122
168		POS	DM		Antimicrobial Effects of Dental Materials	CC, Hall B	1123–1133
169		POS	DM		Dental Materials: Clinical Trials I	CC, Hall B	1134–1137
170		POS	GOR		Geriatric Oral Research: Oral Status General Health Interface	CC, Hall B	1138–1148
171		POS	IMP		Basic Science Research on Dental Implantology I	CC, Hall B	1149–1160
172		POS	MI		Microbiology/Immunology – Antibiotics & Mechanisms of Sensitivity	CC, Hall B	1161–1172
173		POS	MT		Mineralized Tissue – Other Topics	CC, Hall B	1173–1179
174		POS	OHR		Oral Pathology & Treatment II	CC, Hall B	1180–1198
175		POS	OMP		Oral Medicine & Pathology VIII	CC, Hall B	1199–1209
176		POS	OMS		Oral & Maxillofacial Surgery III	CC, Hall B	1210–1217
177		POS	PTT		Natural Compounds for Treatment of Oral & Craniofacial Diseases	CC, Hall B	1218–1227
178		POS	PERIO		Periodontal Research – Pathogenesis <i>In Vitro</i> II	CC, Hall B	1228–1240
179		POS	SAL		Salivary Research III	CC, Hall B	1241–1248
180		POS	SCB		Stem Cell Biology I	CC, Hall B	1249–1260
	3 p.m. – 4 p.m.				IADR Centennial Task Force Meeting	CC, Room 300	
	3 p.m. – 5 p.m.				Industry-sponsored Symposium: Advancements in Filler Technology of Dental Composites (sponsored by Dentsply Sirona)	CC, Room 203	
	3:30 p.m. – 4:45 p.m.				Poster Presentations (Seq #s 181–201)	CC	
181		POS	IAHATT		Junior	CC, Hall B	1261–1275
182		POS	IAHATT		Senior – Basic Science	CC, Hall B	1276–1306.I
183		POS	IAHATT		Senior – Clinical Research	CC, Hall B	1307–1318
184		POS	BEHSR		Dental Caries, Tobacco & Ortho Treatment Practices	CC, Hall B	1319–1331
185		POS	CAR		Clinical Studies in Cariology – Risk Factors	CC, Hall B	1332–1344
186		POS	DM		Dental Materials: Polymer-based Materials VII	CC, Hall B	1345–1357
187		POS	DM		Metal-based Materials and Other Materials II	CC, Hall B	1358–1366
188		POS	DM		Adhesion in Operative Dentistry	CC, Hall B	1367–1377
189		POS	DM		Color & Appearance (Esthetics) II	CC, Hall B	1378–1387
190		POS	DIA		Diagnostic Sciences III	CC, Hall B	1388–1396
191		POS	EDU		Education Strategies Using Technology, Peers, PBL & EBD	CC, Hall B	1397–1407
192		POS	IMP		Implantology Research: <i>in vivo</i> studies	CC, Hall B	1408–1428
193		POS	MI		Microbiology/Immunology – Periodontal Disease & Periodontal Pathogens	CC, Hall B	1429–1442

FRIDAY, JUNE 24, 2016 (continued)

194	POS	NPBR			Practice-based Research	CC, Hall B	1443–1447
195	POS	NEU			TMD & Related Conditions II	CC, Hall B	1448–1459
196	POS	OMP			Oral Medicine & Pathology V	CC, Hall B	1460–1472
197	POS	POHR			Pediatric Oral Health Research: Restorative Materials, Orthodontics, Caries, Special Populations & Genetics	CC, Hall B	1473–1488
198	POS	PERIO			Periodontal Research – Pathogenesis: Clinical	CC, Hall B	1489–1501
199	POS	PB			Pulp Biology & Pulp Responses to Injury	CC, Hall B	1502–1514
200	POS	PROS			Endodontic Restorations & CAD/CAM Studies; Studies on Resins in Clinical Dentistry	CC, Hall B	1515–1524
201	POS	SAL			Salivary Research IV	CC, Hall B	1525–1541
	4:30 p.m. – 5:30 p.m.				IADR/AADR Publications Committee Meeting (invitation only)	CC, Room 310	
	4:30 p.m. – 6:30 p.m.				The Magic Behind the Innovation – P&G Scientific Exchange Workshop (invitation only)	IC, Vivace	
	5 p.m. – 6 p.m.				IADR Dental Anesthesiology Research Group Business Meeting	CC, Room 101	
					IADR Global Oral Health Inequalities Research Network Business Meeting	CC, Room 307A	
	5:30 p.m. – 6:30 p.m.				JDR and JDR Clinical & Translational Research Editorial Board & Reviewer Reception (invitation only)	CC, Room 317	
	5:30 p.m. – 7 p.m.				The University of Hong Kong Faculty of Dentistry Reception (invitation only)	CC, Room 104	
	6 p.m. – 7 p.m.				Dental Anesthesiology Research Group Reception (sponsored by Septodont)	CC, Room 101	
					IADR Global Oral Health Inequalities Research Network Reception	CC, Room 307A	
					Local Organizing Committee Meeting	CC, Room 203	
	6 p.m. – 9 p.m.				UCLA School of Dentistry Reception (invitation only)	IC, Grand Orchid Room	
	7 p.m. – 7:30 p.m.				President's Induction Ceremony (invitation only)	IC, Harmony Ballroom	

SATURDAY, JUNE 25, 2016

	7 a.m. – 10:30 a.m.				Speaker Ready Room Open	CC, Room 301A	
	7 a.m. – 1 p.m.				Coat and Bag Check	CC, Room 302	
					Registration Open	CC, Hall B Lobby	
	7:30 a.m. – 8 a.m.				Poster Set Up	CC, Hall B	
	8 a.m. – 9:30 a.m.				Oral Sessions, Symposia & Hands-on Workshops (Seq #s 202–223)	CC	
202	HOW		C, E		Biom mineralization & Regeneration	CC, Room 403	1542–1545
203	SYM		E		Breakthroughs in Postnatal Tooth Root and Cementum Formation	CC, Hall E1	1546–1548
204	SYM				Dental Nanomedicine: Advancing Drug Delivery, Imaging, and Personalized Medicine	CC, Room 307A	1549–1551
205	SYM		E		How Can the DC/TMD Improve Education and Clinical Practice	CC, Room 327A	1552–1554
206	SYM		C, E		Important Factors for Odontoblast Differentiation and Dentin Pulp Regeneration	CC, Hall E3	1555–1558

SEQ#	TIME	TYPE	GROUP	TRACK	SESSION TITLE	ROOM	PRESENTATION #
SATURDAY, JUNE 25, 2016 (continued)							
207		SYM		C, E	New Trends in Optical Technology Applied in Dentistry	CC, Hall E5	1559-1561
208		SYM		C, E	Retention of Teeth, Nutrition Status and Oral Health Related Quality of Life	CC, Room 401	1562-1565
209		SYM		C, E	Orofacial Pain: From the Bench to Bed Side	CC, Hall E2	1566-1569
210		ORAL	BEHSR		Keynote Address; Economic Aspects of Oral Health	CC, Room 308BC	1570-1574
211		ORAL	CAR		Cariology Research – Microbiological Studies/Biofilm II	CC, Room 203	1575-1578
212		ORAL	CRAN		Craniofacial Development	CC, Room 101	1579-1584
213		ORAL	DM		Biological Effects of Materials for Bone Regeneration	CC, Room 102	1585-1588
214		ORAL	DM		Keynote Address; Adhesion in Minimally Invasive Dentistry & Ultrastructural Analysis of the Adhesive Interface	CC, Room 104	1589-1593
215		ORAL	DM		Keynote Address; Color & Appearance (Esthetics) I	CC, Room 105	1594-1597
216		ORAL	IMP		Basic Science Research on Dental Implantology II	CC, Room 208	1598-1602
217		ORAL	MI		Microbiology/Immunology – Oral Biofilms	CC, Room 307BC	1603-1608
218		ORAL	OMP		Oral Medicine & Pathology III	CC, Room 317BC	1609-1612
219		ORAL	OMS		Oral & Maxillofacial Surgery II	CC, Room 317A	1613-1617
220		ORAL	PERIO		New Horizons in Bone Regeneration	CC, Hall E4	1618-1623
221		ORAL	PROS		Lessons From Experience With CAD/CAM Dental Restorations & Treatment	CC, Room 402	1624-1628
222		ORAL	PB		Regenerative Endodontics	CC, Room 318C	1629-1634
223		ORAL	SCB		Stem Cells & Niche	CC, Room 327B	1635-1639

Welcome to BioGaia's Industry-sponsored Symposium

Probiotics - safety and efficacy for dental health

The increasing use of probiotic bacteria in the gastrointestinal area has led to increased interest in effects of probiotics on the oral environment and the possible use both in prevention and treatment. The goal of this symposium is to summarize current research on probiotics and its potential to affect oral disease conditions.

Date 24 June

Time 13:00 - 15:00

Place Room 208

Probiotics for caries prevention and control

Svante Twetman, Professor of Cariology, Denmark



Probiotics in the management of periodontitis

Jorge Gamonal, Professor of Periodontology, Chile



Effects of *Lactobacillus reuteri* on periodontal disease and pathogens

Toshiaki Yoshino, Doctor, Japan



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SATURDAY, JUNE 25, 2016 (continued)

	8 a.m. – 12:30 p.m.			Poster Viewing Open	CC, Hall B	
	8 a.m. – 12:45 p.m.			3M Oral Care Hospitality Center & Internet Zone	CC, Hall B	
	9:45 a.m. – 11 a.m.			Poster Presentations (Seq #s 224–243)	CC	
224	POS	CAR		Cariology Research – Detection, Risk Assessment & Others II	CC, Hall B	1640–1645
225	POS	CAR		Cariology Research – Microbiological Studies/Biofilm IV	CC, Hall B	1646–1656
226	POS	CRAN		Biology of Tooth Movement	CC, Hall B	1657–1670
227	POS	DM		Glass Ionomer, Calcium Hydroxide & MTA	CC, Hall B	1671–1676
228	POS	DM		Metal-based Materials and Other Materials III	CC, Hall B	1677–1685
229	POS	DM		Adhesion in Prosthetic Dentistry & Orthodontics	CC, Hall B	1686–1702
230	POS	DM		Biocompatibility of Dental Biomaterials	CC, Hall B	1703–1711
231	POS	GOR		Geriatric Oral Research: Patient Centric Healthcare	CC, Hall B	1712–1722
232	POS	IMP		Implantology Research Conducted on Animals	CC, Hall B	1723–1727
233	POS	MI		Microbiology/Immunology – Oral Cancer	CC, Hall B	1728–1738
234	POS	MT		Bone	CC, Hall B	1739–1760
235	POS	NUT		Nutrition Research II	CC, Hall B	1761–1766
236	POS	OMP		Oral Medicine & Pathology VI	CC, Hall B	1767–1775
237	POS	OMS		Oral & Maxillofacial Surgery IV	CC, Hall B	1776–1788
238	POS	POHR		Pediatric Oral Health Research: Social & Family Factors, Dental Trauma, Growth & Development & Orthodontics	CC, Hall B	1789–1797
239	POS	PERIO		Outcome of Initial Periodontal Treatment, Lasers & Photodynamic Therapy	CC, Hall B	1798–1808
240	POS	PTT		Novel Treatments for Oral & Craniofacial Diseases	CC, Hall B	1809–1819
241	POS	PROS		Implants in Prosthodontics-Data from Clinical & <i>in-vitro</i> Studies	CC, Hall B	1820–1828
242	POS	PB		Endodontics	CC, Hall B	1829–1842
243	POS	SCB		Stem Cell Biology II	CC, Hall B	1843–1855
	2 p.m. – 3 p.m.			Coffee Break – 3M Oral Care Hospitality Center & Internet Zone	CC, Hall B	
	11:15 a.m. – 12:30 p.m.			Poster Presentations (Seq #s 244–262)	CC	
244	POS	BEHSR		Global Distribution of Caries	CC, Hall B	1856–1868
245	POS	CAR		Cariology Research – Erosion II	CC, Hall B	1869–1873
246	POS	CRAN		Craniofacial Biology III	CC, Hall B	1874–1887
247	POS	DM		Dental Materials: Polymer-based Materials V	CC, Hall B	1888–1901
248	POS	DM		Dental Materials & Scaffolds for Tissue Regeneration	CC, Hall B	1902–1916
249	POS	DM		Endodontic Instruments & Lasers	CC, Hall B	1917–1928
250	POS	DM		Color & Appearance (Esthetics) III	CC, Hall B	1929–1936
251	POS	DIA		Diagnostic Sciences IV	CC, Hall B	1937–1944
252	POS	EDU		Developing Clinical Skills: Assessment, Performance, Perceptions	CC, Hall B	1945–1951
253	POS	EBD		Evidence-based Dentistry II	CC, Hall B	1952–1955
254	POS	GOHIRN		Global Oral Health Inequalities Research I	CC, Hall B	1956–1957



SEQ#	TIME	TYPE	GROUP	SESSION TITLE	ROOM	PRESENTATION #
SATURDAY, JUNE 25, 2016 (continued)						
255		POS	IMP	Implantology Research FEA Studies	CC, Hall B	1958–1962
256		POS	MI	Microbiology/Immunology – Biofilms & Infection Control	CC, Hall B	1963–1976
257		POS	MT	Dentin, Enamel & Cementum	CC, Hall B	1977–1989
258		POS	NEU	Orofacial Pain	CC, Hall B	1990–2001
259		POS	OHR	Community Oral Health II	CC, Hall B	2002–2013
260		POS	PERIO	Antimicrobial & Host Modulating Approaches to Treat Periodontal Diseases	CC, Hall B	2014–2029
261		POS	PROS	Studies in Removable Prosthodontics	CC, Hall B	2030–2045
262		POS	SCB	Stem Cell Biology III	CC, Hall B	2046–2054
	12:30 p.m. – 1:30 p.m.			GPC/ASC Meeting (<i>invitation only</i>)	CC, Hall E1	
	1 p.m. – 2:30 p.m.			KADR Symposium I – Conservative Dentistry & Endodontics (<i>Presentations in Korean</i>)	CC, Room 101	
	1 p.m. – 3 p.m.			KADR/BeomHo – Hatton Award Competition	CC, Room 102	
	1 p.m. – 4:15 p.m.			KADR Clinicians' Day (in Korean)	CC	
	1:30 p.m. – 2:30 p.m.			IADR Board of Directors Meeting	CC, Room 208	
	2:45 p.m. – 4:15 p.m.			KADR Symposium II – Digitalization and New Trends in Prosthodontics (<i>Presentations in Korean</i>)	CC, Room 101	
	3:15 p.m. – 4:15 p.m.			KADR Joseph Lister Award Competition	CC, Room 102	
	4:30 p.m. – 5:30 p.m.			KADR Annual General Meeting	CC, Room 103	

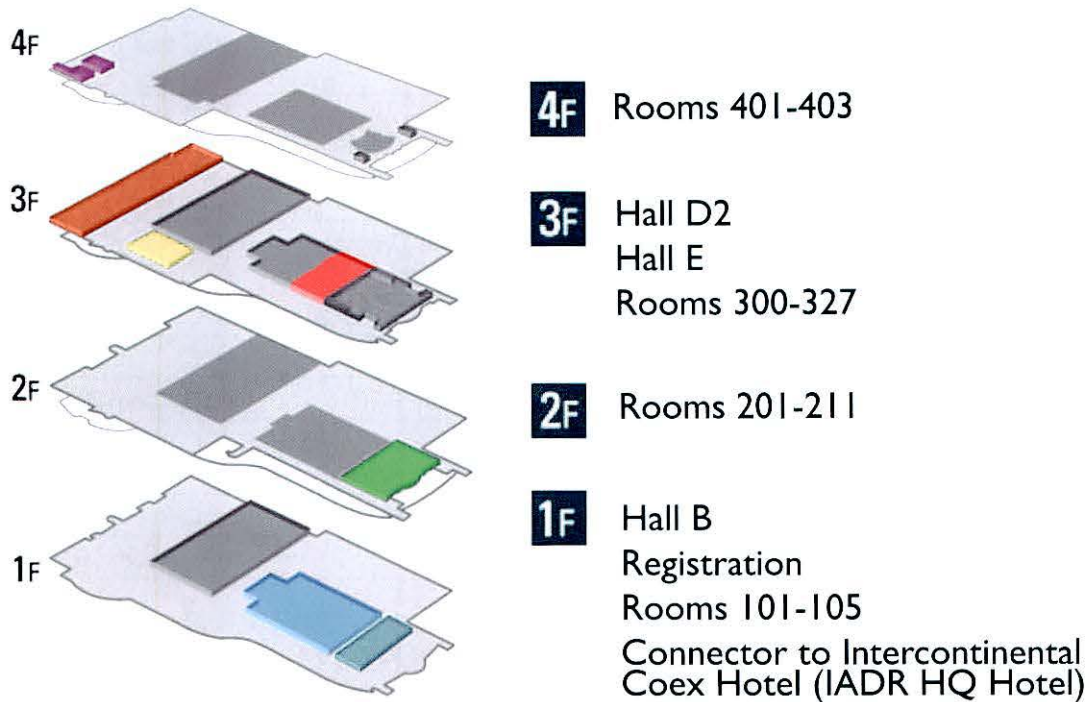
LEGEND

BEHSR	Behavioral, Epidemiologic & Health Services Research	M/I	Microbiology/Immunology
C	Clinician Track	MT	Mineralized Tissue
CAR	Cariology Research	NEU	Neuroscience
CRAN	Craniofacial Biology	NPBR	Network for Practice-based Research
CTSN	Clinical and Translational Science Network	NUT	Nutrition Research
DAR	Dental Anesthesiology Research	OHR	Oral Health Research
DIA	Diagnostic Sciences	OMP	Oral Medicine & Pathology
DLS	Distinguished Lecture Series	OMS	Oral & Maxillofacial Surgery
DM	Dental Materials	PB	Pulp Biology & Regeneration
E	Educator Track	PERIO	Periodontal Research
EBD	Evidence-based Dentistry Network	POHR	Pediatric Oral Health Research
EDU	Education Research	PROS	Prosthodontics Research
GOHIRN	Global Oral Health Inequalities Research Network	PTT	Pharmacology, Therapeutics & Toxicology
GOR	Geriatric Oral Research	SAL	Salivary Research
HOW	Hands-on Workshop	SATSYM	Satellite Symposium
IAHATT	IADR Unilever Hatton Awards	SCB	Stem Cell Biology
IMP	Implantology Research	STAR	Student Training & Research
LL	Lunch & Learning	SYM	Symposium
		WISN	Women in Science Network

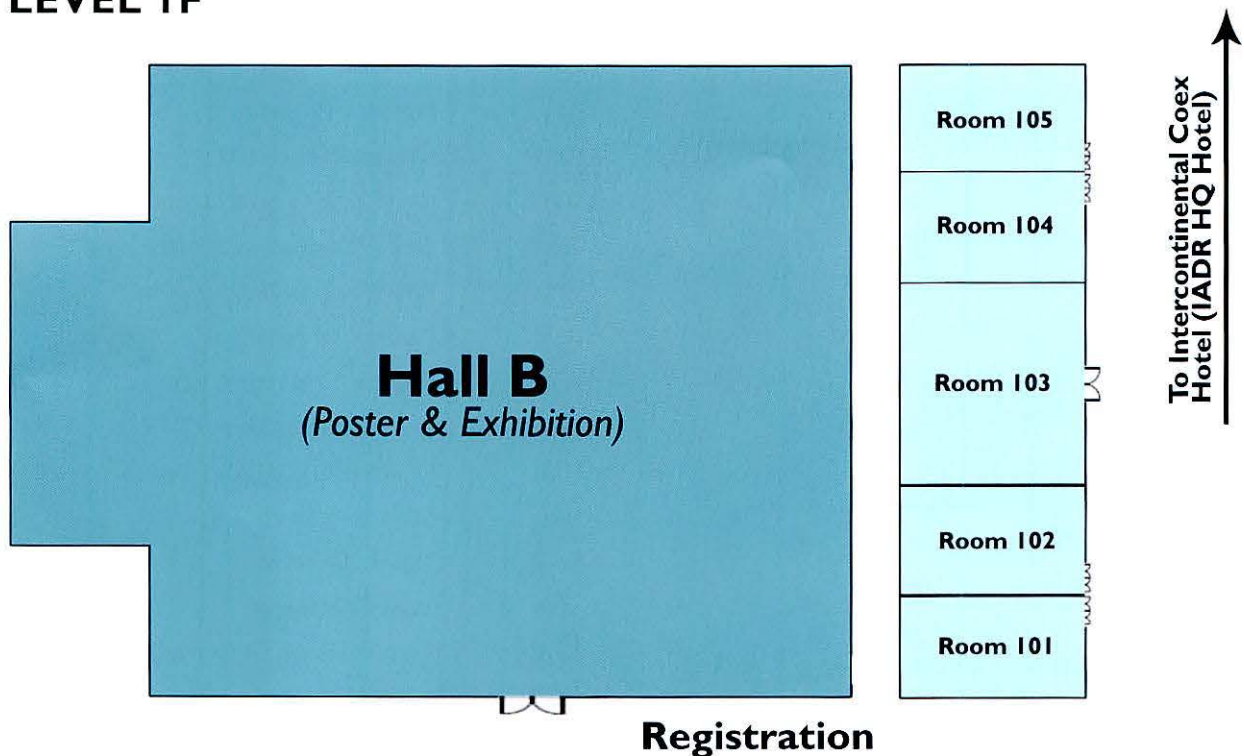
FLOOR PLANS

COEX CONVENTION & EXHIBITION CENTER

Seoul, Republic of Korea

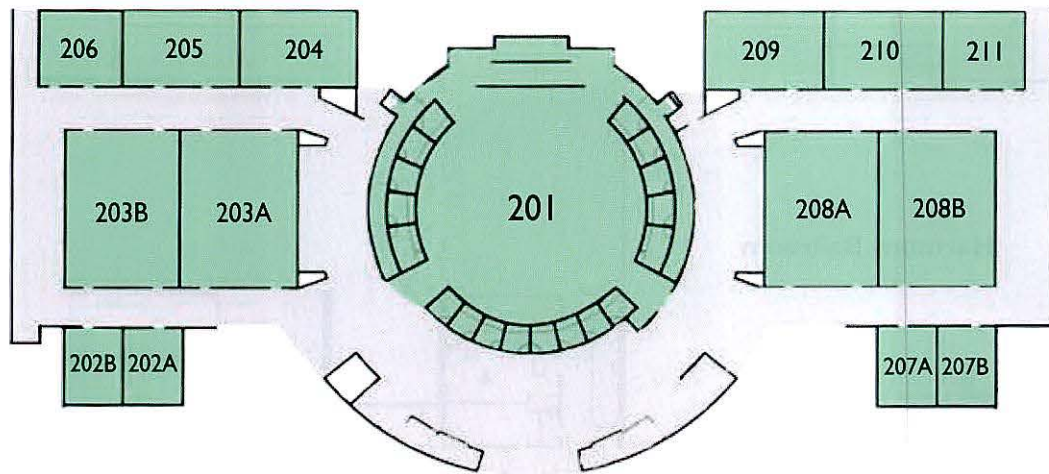


LEVEL 1F

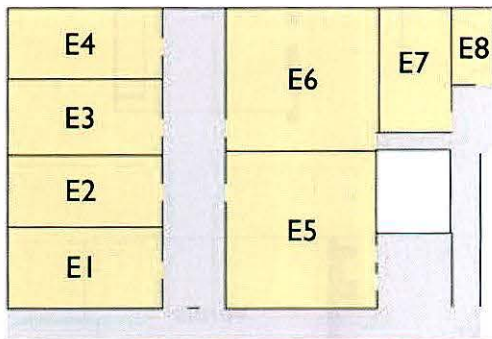
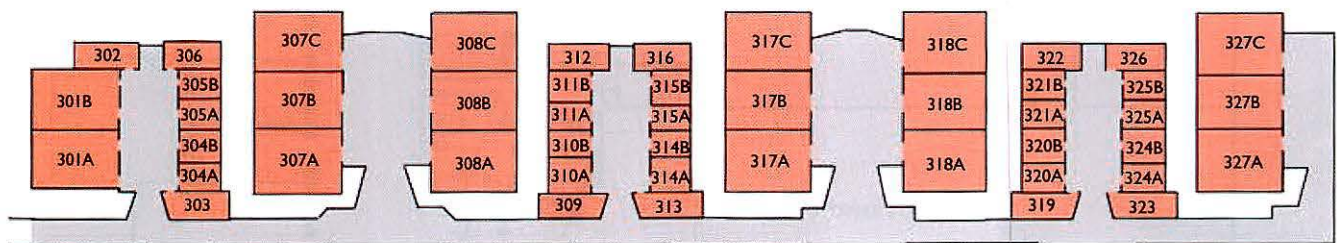


COEX CONVENTION & EXHIBITION CENTER

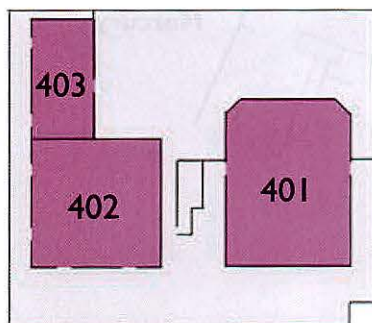
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LEVEL 3F

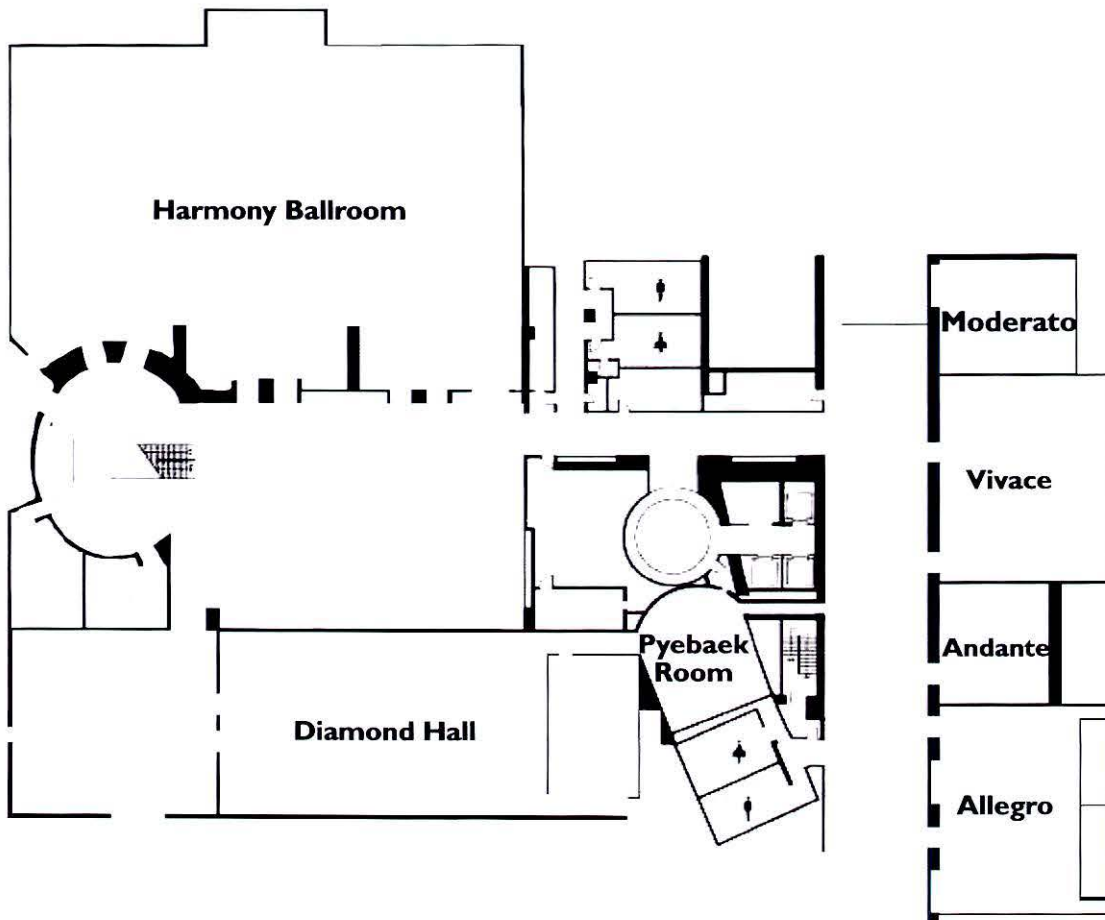


LEVEL 4F

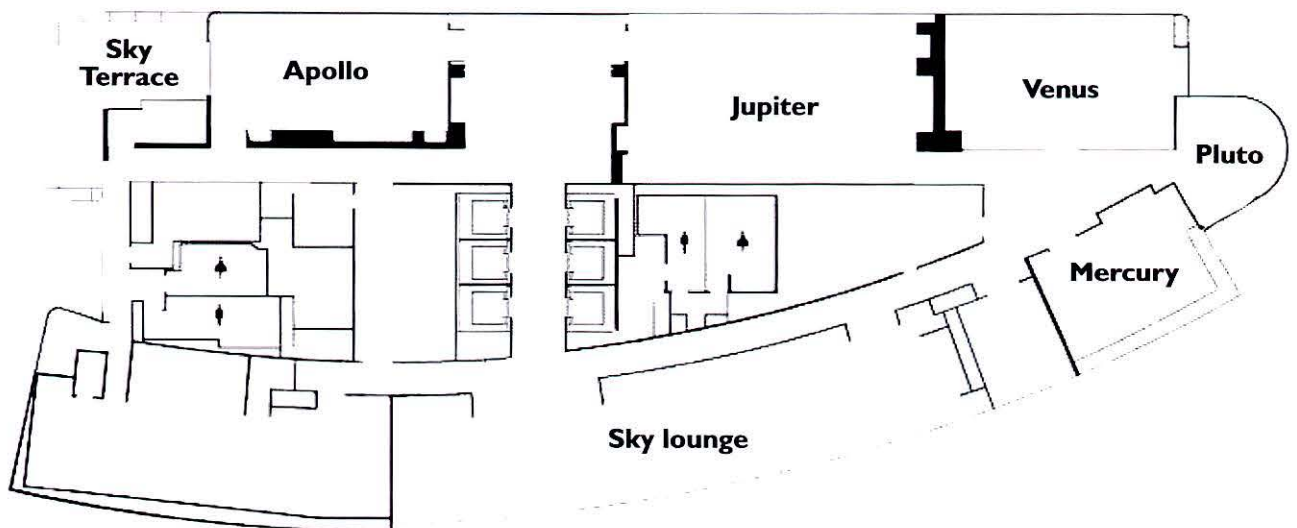


INTERCONTINENTAL SEOUL COEX
(HEADQUARTERS HOTEL)

HARMONY LEVEL



30TH FLOOR



HOTEL LISTINGS

HOTEL NAME	STREET ADDRESS	PHONE NUMBER	DISTANCE TO COEX
InterContinental Seoul COEX (Headquarters Hotel)	524 Bongeunsa-ro, Gangnam-gu	+82.2.3452.2500	2 minutes on foot
Aloft Seoul Gangnam	736 Yeongdong-daero, Gangnam-gu	+82.2.510.9700	Free Shuttle Bus provided to COEX (6 minutes by taxi)
Artnouvou Yeoksam	701-1 Yeoksam-dong, Gangnam-gu	+82.2.557.7100	1 station away by subway
Grand InterContinental Seoul Parnas	521 Teheran-ro, Gangnam-gu	+82.2.555.5656	2 minutes on foot
Hotel Peyto Samseong	259, Gangnam-daero, Seocho-gu	+82.2.6936.8100	5 minutes on foot
Hotel Prima Seoul	536 Dosan-daero, Gangnam-gu	+82.2.6006.9114	9 minutes by taxi
Hotel Riviera	737, Yeongdong-daero, Gangnam-gu	+82.2.541.3111	10 minutes by taxi
Ibis Styles Ambassador Seoul Gangnam	431 Samseong-ro, Gangnam-gu	+82.2.6202.3100	10 minutes on foot
Lotte Hotel World	240, Olympic-ro, Songpa-gu	+82.2.3466.7000	3 stations away by subway
Mercure Seoul Ambassador Gangnam Sodowe	10 Teheran-ro 25-gil - Gangnam-gu	+82.2050.6000	2 stations away by subway
Novotel Ambassador Gangnam	130 Bongeunsa-ro Gangnam-gu	+82.2.567.1101	4 stations away by subway
Oakwood Premier COEX Center Seoul	46, Teheran-ro 87-gil, Gangnam-gu	+82.2.3466.7000	2 minutes on foot
Ocloud Hotel	12, Sapyeong-daero 58-gil, Seocho-gu	+ 82.2.3480.8640	4 stations away by subway
Ramada Seoul	112-5 Samsung-Dong Gangnam-gu	+82.2.6202.2000	2 stations away by subway
Samjung Hotel	604-11 Yeoksam-dong, Gangnam-gu	+82.2.557.1221	3 stations away by subway
Seoul Residence	708-16 Yeoksam-Dong, Gangnam-gu	+82.2.6202.3100	1 station away by subway
Shilla Stay	517, Eonju-ro, Gangnam-gu	+82.2.2054.9000	Free Shuttle Bus provided to COEX (2 stations away by subway)

THE 4th KOREA FESTIVAL EXHIBITION K-Festival

June **23** (Thu) - **25** (Sat), 2016
COEX, Seoul, Korea

All about Festival,

- We will show you...

- Variety festivals in Korea
- Variety showcase of traditional cultural performance (shows, concerts and others)

- Event...

- Performance of variety festivals
- Traditional music & dance performance
- Conference of Korea Festival Forum



Festival Pavilion



Event Pavilion



Performance Contents Pavilion



Festival Information Pavilion



Festival Goods Pavilion



Special Stage



Please refer to the website for more information

Hosted by



DONG-A ILBO



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EXHIBITION & CONVENTION GROUP

GENERAL INFORMATION

REGISTRATION

The IADR Registration Area will be located in Hall B Lobby of the COEX Convention & Exhibition Center. Registration will be open during the following hours:

Tuesday, June 21	2:30 p.m. – 6:30 p.m.
Wednesday, June 22	8 a.m. – 5 p.m.
Thursday, June 23	7 a.m. – 5 p.m.
Friday, June 24	7 a.m. – 5 p.m.
Saturday, June 25	7 a.m. – 1 p.m.

IADR REGISTRATION AREA INCLUDES

- Express Badge Check In Stations
- Badge Printing Counters
- Attendee Services Counter
- Exhibitor/Sponsor Badge Pick Up
- Onsite Registration Kiosks (payment by credit card only)
- Abstract Viewing & CERP Printing Stations
- USB of Abstracts & Bag Distribution
- Meeting Ribbons
- Job Opportunities Bulletin Service (JOBS)
- Message Board

3M ORAL CARE HOSPITALITY CENTER & INTERNET ZONE

Location: CC, Hall B

Thursday, June 23	8 a.m. – 5 p.m.
Friday, June 24	8 a.m. – 5 p.m.
Saturday, June 25	8 a.m. – 12:30 p.m.

EXHIBITION HOURS

Location: CC, Hall B

Thursday, June 23	9 a.m. – 5 p.m.
Friday, June 24	9 a.m. – 5 p.m.

COAT AND BAG CHECK HOURS

Location: CC, Room 302

Wednesday, June 22	8 a.m. – 5:30 p.m.
Thursday, June 23	7 a.m. – 5:30 p.m.
Friday, June 24	7 a.m. – 5:30 p.m.
Saturday, June 25	7 a.m. – 1 p.m.

SPEAKER READY ROOM

Location: CC, Room 301A

Tuesday, June 21	2:30 p.m. – 6:30 p.m. (peak usage: 8 a.m. – 2 p.m.)
Wednesday, June 22	8 a.m. – 5 p.m. (peak usage: 8 a.m. – 2 p.m.)
Thursday, June 23	7 a.m. – 5 p.m. (peak usage: 7 a.m. – 12 p.m.)
Friday, June 24	7 a.m. – 5 p.m. (peak usage: 7 a.m. – 12 p.m.)
Saturday, June 25	7 a.m. – 10:30 a.m.

POSTER PRESENTATIONS

DAY	PRESENTATION #S	POSTER VIEWING	POSTER PRESENTATION TIMES
Thursday	0349-0597 0598-0818	8 a.m. – 5 p.m.	Block #1: 2 p.m. – 3:15 p.m. Block #2: 3:30 p.m. – 4:45 p.m.
Friday	1033-1260 1261-1541	8 a.m. – 5 p.m.	Block #1: 2 p.m. – 3:15 p.m. Block #2: 3:30 p.m. – 4:45 p.m.
Saturday	1640-1855 1856-2054	8 a.m. – 12:30 p.m.	Block #1: 9:45 a.m. – 11 a.m. Block #2: 11:15 a.m. – 12:30 p.m.

POSTER SET-UP AND TEAR-DOWN SCHEDULE

PRESENTATION DAY	POSTER SET-UP	POSTER TEAR-DOWN
Thursday	7:30 a.m. – 8 a.m.	5 p.m. – 5:15 p.m.
Friday	7:30 a.m. – 8 a.m.	5 p.m. – 5:15 p.m.
Saturday	7:30 a.m. – 8 a.m.	12:45 p.m. – 1 p.m.

Note: IADR will not be responsible for posters and materials left on poster boards after the stated hours.

POSTER SUPPLIES

Presenters should bring their own adhesive for the posters. IADR suggests reusable self-adhesive. Take into consideration the poster material and size when planning the amount of adhesive to bring.

SESSIONS FOR CLINICIANS AND EDUCATORS

KEY:

C – Clinician Track
E – Educator Track

IADR has made it convenient for attendees to choose which presentations and symposia they want to attend based on their professional background. Throughout the program book, you'll notice that abstracts and symposia are marked with a C if they are of most interest to clinicians and an E if they are of most interest to educators. Of course the entire meeting is open to all registered delegates and no doubt other sessions will be of interest, too.

WEDNESDAY, JUNE 22, 2:30 P.M. – 4 P.M.

E *A Sociological/Anthropological Perspective on Oral Health Inequalities*

Sponsored by: Behavioral, Epidemiologic, and Health Services Research, Global Oral Health Inequalities Research Network, Oral Health Research
Organizers: Barry Gibson (University of Sheffield, United Kingdom), Rebecca Harris (University of Liverpool, Cheshire, United Kingdom) & Lisa Jamieson (University of Adelaide, SA, Australia)
Hall E1

C *Clinical Investigations in Implant Dentistry: A Rainbow of Opportunities*

Sponsored by: Implantology Research, Periodontal Research
Organizers: Michel Dard (Institut Straumann AG)
Hall E5

C,E *Digital Dentistry - New Dental Material and Standardized Experimental Protocol for CAD/CAM*

Sponsored by: Dental Materials, KADR Annual Meeting
Organizers: Seunghan Oh (Wonkwang University, Iksan, Republic of Korea)
Room 307A

C,E *Immune Recognition and Dry Mouth Disease*

Sponsored by: Salivary Research
Organizers: Seunghee Cha (University of Florida, Gainesville, USA) & Kyungpyo Park (Seoul National University, Republic of Korea)
Hall E2

C,E *Pulp-dentin Complex Formation in Development, Repair and Regeneration*

Sponsored by: Pulp Biology & Regeneration Research, Mineralized Tissue
Organizers: George Huang (University of Tennessee Health Science Center, Memphis, USA) & Joo-Cheol Park (Seoul National University, Republic of Korea)
Room 402

C,E *The Ortho-perio Connection: From Biology to the Clinic*

Sponsored by: Periodontal Research
Organizers: Alpdogan Kantarci (Forsyth Institute, Cambridge, Mass., USA) & Andreas Stavropoulos (Malmö University, Malmö, Sweden)
Room 403

THURSDAY, JUNE 23, 8 A.M. – 9:30 A.M.

C,E *Bone Biology Research*

Sponsored by: KADR Annual Meeting
Organizers: Jeong-Tae Koh (Chonnam National University, Gwang-Ju, Republic of Korea) & Hyung-Joon Kim (Pusan National University, Yangsan-si, Republic of Korea)
Hall E5

C,E *Early Detection and Prevention of Oral Disease*

Sponsored by: KADR Annual Meeting
Organizer: Baek-Il Kim (Yonsei University College of Dentistry, Seoul, Republic of Korea)
Room 327A

C,E *How the OMICS are Contributing to the Understanding of Caries*

Sponsored by: Cariology Research, Microbiology/Immunology, Clinical and Translational Science Network
Supported by: Colgate-Palmolive Company
Organizer: Marcelle Matos Nascimento (University of Florida, Gainesville, USA)
Room 401

C,E *Molecular Genetics of Craniofacial Development and Disease*

Sponsored by: IADR-Asia Pacific Region
Organizer: Young Ku (Seoul National University, Republic of Korea)
Hall E3

C,E *Oral Health Behavioral Initiatives that work for Global Indigenous Populations*

Sponsored by: Behavioral, Epidemiologic and Health Services Research, Global Oral Health Inequalities Research Network, Oral Health Research, Women in Science Network
Organizers: Judith Albino (University of Colorado, Aurora, USA) & Tamanna Tiwari (University of Colorado, Aurora, USA)
Room 307A

C,E *What is Translational Multi-disciplinary Research?*

Sponsored by: Evidence-based Dentistry Network
Organizer: Jukka Meurman (University of Helsinki, Helsinki, Finland)
Hall E2

THURSDAY, JUNE 23, 10:45 A.M. – 12:15 P.M.

C,E *HOW #2: Abstract Quality: Getting Better*

Sponsored by: Education Research Group

Organizer: Alison Bullock (Cardiff University, United Kingdom)

Room 307A

Attendance is limited to 50 people, you must register to attend.

C,E *MRONJ: Incidence, Pathophysiology, Diagnosis, and Treatment*

Sponsored by: Microbiology / Immunology, Oral &

Maxillofacial Surgery, Mineralized Tissue

Organizers: Xin Li (New York University, USA), Wonse Park

(Yonsei University, Seoul, Republic of Korea) & Deepak

Saxena (New York University, USA)

Room 327A

C,E *Reducing Oral Health Inequalities in Elders Through Promoting Self-Care Practice*

Sponsored by: Global Oral Health Inequalities Research

Network, Geriatric Oral Research

Supported by: Johnson & Johnson

Organizers: Edward C.M. Lo (University of Hong Kong) & Bei

Wu (Duke University, Durham, NC, USA)

Room 403

C,E *Setting Standards for Measuring Inequalities in Oral Health*

Sponsored by: Global Oral Health Inequalities Research

Network, Behavioral, Epidemiologic, and Health Services

Research

Supported by: Colgate-Palmolive Company

Organizers: Georgios Tsakos (University College London,

England, UK) & David Williams (Bart's and The London

School of Medicine and Dentistry, England, UK)

Hall E2

C,E *Tissue Engineering and Dental Regeneration*

Sponsored by: IADR-Asia Pacific Region

Organizers: Young Ku (Seoul National University, Republic of Korea)

Hall E3

C,E *Wnt Signaling in Development, Inflammation and Regeneration*

Sponsored by: Stem Cell Biology, Craniofacial Biology,

Mineralized Tissue

Organizers: Jeremy Mao (Columbia University, New York,

USA) & Cun-Yu Wang (University of California - Los

Angeles, USA)

Hall E5

FRIDAY, JUNE 24, 8 A.M. – 9:30 A.M.

C,E *Contemporary Concepts of Periodontal Tissue Regeneration and Stem Cell Research*

Sponsored by: Periodontal Research, KADR Annual Meeting

Organizers: Seong-Ho Choi (Yonsei University, Seoul,

Republic of Korea) & Seok-Mo Heo (Chonbuk National

University, Jeonju, Jeonbuk, Republic of Korea)

Room 307A

FUTURE MEETINGS

2016

SEPTEMBER 20–22

**IADR/Pan European Regional Congress
Annual Meeting of the British, Continental
European, Irish, Israeli and
Scandinavian Divisions of IADR**
Jerusalem, Israel

2017

MARCH 22–25

**95th General Session & Exhibition of the IADR
46th Annual Meeting of the AADR
41st Annual Meeting of the CADR**
San Francisco, Calif., USA

OCTOBER 3–6

11th IADR World Congress on Preventive Dentistry
New Delhi, India

2018

MARCH 21–24

**47th Annual Meeting & Exhibition of the AADR
42nd Annual Meeting of the CADR**
Fort Lauderdale, Fla., USA

JULY 25–28

**96th General Session & Exhibition of the IADR
IADR/Pan European Regional Congress**
London, United Kingdom

2019

JUNE 19–22

**97th General Session & Exhibition of the IADR
48th Annual Meeting of the AADR
43rd Annual Meeting of the CADR**
Vancouver, B.C., Canada

2020

MARCH 18–21

**98th General Session & Exhibition of the IADR
49th Annual Meeting of the AADR
44th Annual Meeting of the CADR**
Washington, D.C., USA



IADR

International Association
for Dental Research

**The International Association for Dental Research
is pleased to announce the recipients of the**

2016 IADR Innovation in Oral Care Awards

H.M.H.N. Bandara – University of Queensland, Australia
and co-investigators Lakshman Samaranayake and Hugh David Charles Smyth
Novel Quorum Sensing-based Liposomal Drug Delivery Against Oral Candida Biofilms

Nicholas Jakubovics – Newcastle University, Newcastle Upon Tyne, England, UK
and co-investigators Michael Hall, Philip Preshaw and Grant Burgess
Control of Oral Biofilms using a Natural Marine Microbial Enzyme

Catherine Ovitt – University of Rochester, New York, USA
and co-investigator Vyacheslan Korshunov
Localized Delivery of Amifostine to Enhance Salivary Gland Radioprotection

Supported by GlaxoSmithKline, each recipient receives \$75,000
to support research focusing on new innovative oral care
technologies that can be used routinely by the public to maintain
and improve oral health and the quality of life.

www.iadr.org/ioca

**C,E Dental Care-Related Fear/Anxiety Research:
International Perspectives**

Sponsored by: Behavioral, Epidemiologic, and Health Services Research, Oral Health Research, Pediatric Oral Health Research

Organizers: Daniel W. McNeil (West Virginia University, Morgantown, USA) & Jason Mathew Armfield (Australian Research Centre for Population Oral Health, Adelaide)

Hall E1

E Evidence-Based Practice Teaching and Learning in the Dental Curriculum

Sponsored by: Evidence-based Dentistry Network

Organizers: May CM Wong (The University of Hong Kong) & Robert Weyant (University of Pittsburgh, Pa., USA)

Room 327A

C,E Pathogenicity of Oral Microbes

Sponsored by: IADR-Asia Pacific Region

Organizer: Young Ku (Seoul National University, Republic of Korea)

Hall E3

C,E Saliva and Salivary Glands: How to Make Things New?

Sponsored by: Salivary Research

Organizers: Walter Siqueira (University Western Ontario, Canada) & Seunghye Cha (University of Florida, Gainesville)

Room 403

FRIDAY, JUNE 24, 10:45 A.M. – 12:15 P.M.

C,E HOW #3: Human Resources for Oral Health: Planning to Address Inequalities

Sponsored by: Global Oral Health Inequalities Research Network

Organizer: Jennifer Gallagher (King's College London, United Kingdom)

Room 307A

C Antibacterial and Bioactive Dental Restorative Materials: Do They Really Work?

Sponsored by: Dental Materials

Supported by: University of Washington, Washington Dental Service Endowed Chair funds & BISCO Dental Products

Organizers: Daniel C. N. Chan (University of Washington, Seattle, USA) & Alireza Sadr (University of Washington, Seattle, USA)

Hall E1

C,E Esthetic Considerations for Primary Teeth

Sponsored by: Pediatric Oral Health Research, KADR Annual Meeting

Organizer: Young J. Kim (Seoul National University, Republic of Korea)

Hall E2

C,E Periodontal Pathogens and Modulation of Host Immune Responses

Sponsored by: KADR Annual Meeting

Organizer: Youngnim Choi (Seoul National University, Republic of Korea)

Room 327B

C,E Stem Cells and Biomedical Engineering

Sponsored by: Periodontal Research

Organizers: Andreas Stavropoulos (Malmö University, Malmö, Sweden) & Kamal Babiker Elnour Mustafa (University of Bergen, Norway)

Room 403

C,E Translational Regenerative Approaches for Dental and Craniofacial Applications

Sponsored by: Dental Materials, Pulp Biology & Regeneration Research

Organizers: Marco Bottino (Indiana University, Indianapolis, USA) & Paulo Coelho (New York University, USA)

Hall E5

SATURDAY, JUNE 25, 8 A.M. – 9:30 A.M.

C,E HOW #4: Biomineralization & Regeneration

Sponsored by: Dental Materials Group

Organizers: Yoojin Shin (University of the Philippines, San Juan), Angeline Lopez (University of Santo Tomas, Manila, Philippines), Sok Keun Yoon (Myongji University, Seoul, Republic of Korea), Deog Ho (Teddy) Kim (Sungkyunkwan University, Seoul, Republic of Korea), Mee Hyun Kim (Inha University, Incheon, Republic of Korea), Joonsae Shin (KyungHee University, Seoul, Republic of Korea), Gwang Jun Cha (Seoul National University, Republic of Korea), Jin uk Oh (KyungHee University, Seoul, Republic of Korea), Gi Tae Son (Dongnam Health College, Suwon, Republic of Korea), Yoon Oh Kim (Gimcheon University, Gimcheon University), Hyun Dong Kim (Dongnam Health College, Suwon, Republic of Korea), Tae Ik Jeong (KyungHee University, Seoul, Republic of Korea), Jin Hee Park (KyungHee University, Seoul, Republic of Korea), Kyoung Seok Tae (KyungHee University, Seoul, Republic of Korea), Hyunseok Kang (KyungHee University, Seoul, Republic of Korea), Hyun Chul Cho (KyungHee University, Seoul, Republic of Korea), You Sang Lee (KyungHee University, Seoul, Republic of Korea), Sang Bin Woo (KyungHee University, Seoul, Republic of Korea), Jung-Hoon Ahn (KyungHee University, Seoul, Republic of Korea), Joon seong Heo (KyungHee University, Seoul, Republic of Korea), Chang-Seon Yoo (KyungHee University, Seoul, Republic of Korea), Yeo Rok Oh (KyungHee University, Seoul, Republic of Korea), Taesung Kim (Seoul National University, Republic of Korea)

Room 403

Poznań ●

Annual World Dental Congress

Face the world with a smile! 



E Breakthroughs in Postnatal Tooth Root and Cementum Formation

Sponsored by: Mineralized Tissue

Organizers: Jian Feng (Baylor College of Dentistry, Dallas, TX, USA) & Eui-Sic Cho (Chonbuk National University, Jeonju, Republic of Korea)

Hall E1

E How Can the DC/TMD Improve Education and Clinical Practice

Sponsored by: International RDC/TMD Consortium, Neuroscience

Organizers: Michail Koutris (Academic Centre for Dentistry Amsterdam (ACTA), Netherlands) & Thomas List (Malmö University, Malmö, Sweden)

Room 327A

C,E Important Factors for Odontoblast Differentiation and Dentin Pulp Regeneration

Sponsored by: Pulp Biology & Regeneration Research, KADR Annual Meeting

Organizer: Yun-Chan Hwang (Chonnam National University, Gwangju, Republic of Korea)

Hall E3

C,E New Trends in Optical Technology Applied in Dentistry

Sponsored by: Dental Materials, Cariology Research

Supported by: FAPESP-São Paulo Research Foundation; University of São Paulo-USP; University of São Paulo State-UNESP

Organizer: Vanderlei Salvador Bagnato (University of São Paulo, Brazil)

Hall E5

C,E Orofacial Pain: From the Bench to Bed Side

Sponsored by: Neuroscience, Clinical and Translational Science Network, Oral Medicine & Pathology

Organizers: Ashok Kulkarni (National Institute of Dental and Craniofacial Research, NIH, Bethesda, MD, USA) & Seog Bae Oh (Seoul National University, Republic of Korea)

Hall E2

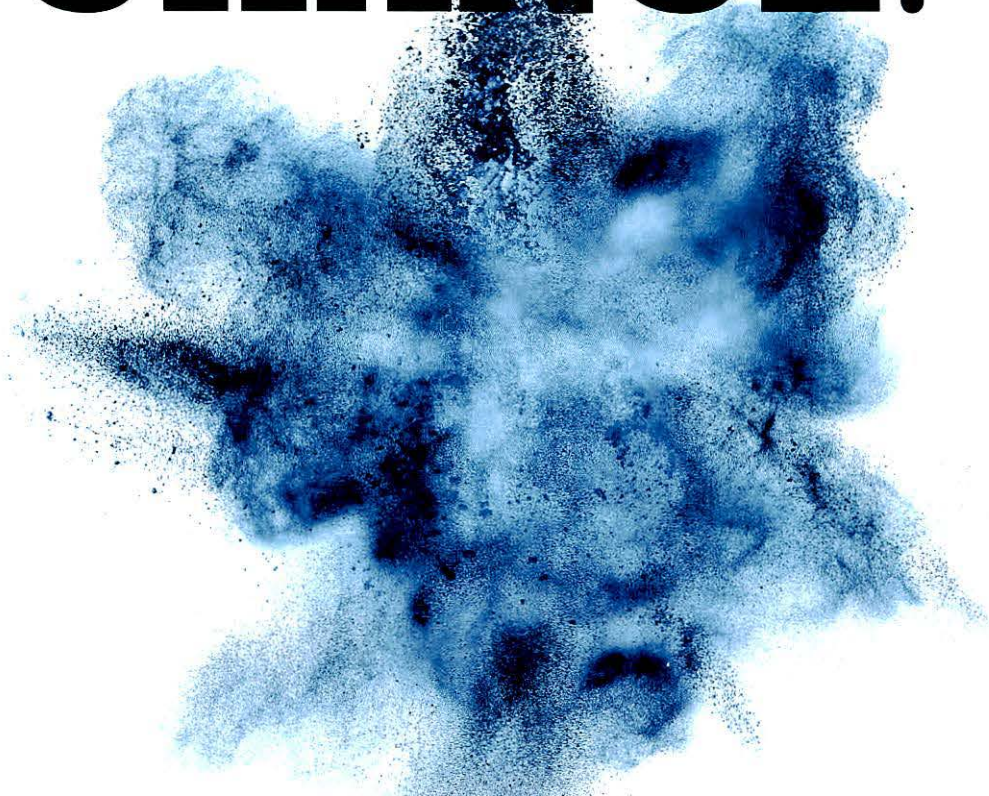
C,E Retention of Teeth, Nutrition Status and Oral Health Related Quality of Life

Sponsored by: Geriatric Oral Research, Behavioral, Epidemiologic, and Health Services Research, Nutrition Research

Organizers: Haiping Tan (The University of Adelaide, Australia) & Gerald John McKenna (Queens University Belfast, United Kingdom)

Room 401

EXPAND INNOVATION. IMPACT CHANGE.



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Influence Practitioners and Policymakers Now!

IADR members and other oral health leaders' research works best when translated quickly to those who deliver evidence-based prevention and care to address today's pressing issues.

IADR/AADR's new title, *JDR Clinical & Translational Research* gives research leaders the opportunity to publish and translate important original craniofacial, oral, and dental research into clear, quick, clinical application that emphasizes community benefits and communicates clearly to policymakers.

Submit your research and help draw connections between diverse areas of research, stakeholders, and public interest, and impact oral health today!

www.iadr.org/jdrctr

MEETING OVERVIEW

MEETING SITE

The symposia, oral and scientific sessions, registration, the exhibition and the poster presentations will be held at the COEX Convention & Exhibition Center located at:

513 Yeongdong-daero, Gangnam-gu
Seoul, Republic of Korea

Please check the Schedule of Events for the location of specific meetings and functions. You are encouraged to find rooms in which you plan to present or hear presentations well in advance of the times of the functions.

Complimentary WiFi is available in the COEX Convention & Exhibition Center. Please use the following access information, lowercase all text. Access ID: iadr2016
Password: iadr

Coat Check/Baggage Storage

Facilities for coat check and baggage storage will be available in Room 302. Please do not bring your luggage to the meeting rooms.

ACCOMPANYING PERSONS (GUESTS)

Accompanying persons are non-dentists, non-researchers and non-members who may be traveling to Seoul with a meeting delegate and who have no scientific or educational interest in the meeting. Meeting delegates' students, lab technicians, colleagues, past IADR members, co-authors, oral health company employees, etc., do not qualify as accompanying persons and are required to pay the appropriate registration fee if they wish to attend.

Please note accompanying persons are not eligible to earn continuing education credits and will not receive a certificate of attendance for the meeting.

Any delegate who wishes to register an accompanying person must visit an Onsite Registration Kiosk in the registration area on site to complete payment and purchase a badge for \$55. Registration staff at the Badge Printing Counters will provide a special color-coded badge ribbon, which will admit an accompanying person to one day only and will not be honored at any other time during the meeting. Anyone who wishes to attend more than one day of the meeting will be required to pay the appropriate full registrant fee.

BADGES

Admission to all sessions and all other events during the Meeting will be by badge and/or tickets only. Please wear your badge at all times. Guest badges and special color-coded ribbons will be available at any Onsite Registration counter in the registration area, and guest badges are required for all social functions. If you lose your badge, you will be required to show your receipt and an identification

card to obtain a replacement badge. A \$25 fee will be charged for all registration badge replacements requested on site. Do not leave your badge in your hotel room.

NOTE: All complimentary registrations included as part of an exhibit booth are exhibitor only. These badges will allow for exhibit hall entry only, do not provide access to the scientific sessions and cannot be used by abstract presenters. For companies and organizations that need additional registrations beyond those provided with their exhibit booth, additional exhibitor-only badges can be purchased for \$265 per registration.

ELECTRONIC DEVICES

All electronic devices must be turned OFF or set on "vibrate mode" during sessions. If necessary, step out to the hallway to make or accept a call, or to send an email or text. The back-lighting on electronic devices is distracting in a dimmed room.

IADR PHOTOGRAPHY, AUDIO AND VIDEO RECORDING POLICY

Taking photographs of scientific content in either an oral session (PowerPoint slides and other projected images) or poster presentation **is strictly prohibited**. Session chairpersons will strictly enforce this rule. Taking photographs of presentations is permissible with the permission of the presenter, and may occur only at the beginning or end of a session or in between presentations.

Audio and video recordings are strictly prohibited without the written permission of the IADR Global Headquarters. IADR does not permit the photography or electronic capture of scientific sessions in meeting rooms or the Exhibit Hall. This policy also includes photographing colleagues against the backdrop of scientific posters on display without the express consent of the presenting author(s).

Any photographs taken by IADR are the property of IADR and may be used in future promotional material and communication pieces.

PROGRAM AND ABSTRACTS

A USB of abstracts will be produced for the IADR/APR General Session delegates. Delegates can pick up their USB on site in the registration area (please have your USB voucher, found on your badge sheet, available to turn in). Members not attending the meeting can purchase a USB after the meeting. The Program will be printed and distributed on site to all meeting delegates. If you need a replacement or extra copy, the fee is \$25 each. The Program and abstracts are available online at www.iadr.org/iags and in the mobile app for the meeting.

CLINICIAN AND EDUCATOR TRACKS

To make it more convenient for attendees to choose which presentations and symposia they want to attend based on their professional background, in this Program Book you'll notice that oral sessions are marked with an "E" for attendees interested in oral sessions that are of most interest to educators and a "C" for sessions that are of most interest to clinicians.

LISTING OF PRESENTERS AND AUTHORS

The Program lists the primary presenter's name, co-author's name(s), and their institutions. Abstracts numbers of presenters are listed in the Author/Co-author Index in boldface type. In cases of multiple authorship, the speaker is identified in the abstract by an asterisk (*) following his or her name in both the Program and Abstracts. An "S" appears before the presentation number for student presenters. The number of each abstract printed in the Abstracts is the same as the corresponding paper in the Program. Abstracts are printed exactly as submitted by the authors, without subsequent editing. Authors are not allowed to reference their abstract if the presentation was withdrawn or cancelled.

PARTICIPANTS WITH DISABILITIES OR SPECIAL NEEDS

If you have a disability or special need that may have an impact on your participation in the General Session, please contact the IADR Meetings Department on site to discuss your requirements.

CONTINUING EDUCATION RECOGNITION PROGRAM (CERP)

IADR is an ADA CERP recognized provider. ADA CERP is a service of the American Dental Association to assist dental professionals in identifying quality providers of continuing dental education. ADA CERP does not approve or endorse individual courses or instructors, nor does it imply acceptance of credit hours by boards of dentistry. Concerns or complaints about a CE provider may be directed to the provider or to the Commission for Continuing Education Provider Recognition at ADA.org/CERP.

Delegates are eligible to receive continuing education credits for attending the scientific oral and poster sessions throughout the meeting. One hour of program time is equivalent to one credit hour. Continuing Education Credit Letters and Certificates of Attendance are available for download at the meeting in the registration area or online 12 months post meeting at www.iadr.org/iags.

Note: all sessions in the Scientific Program (starting on page 69) are designated for CE credit. Industry-sponsored symposia are not eligible.

Delegates are responsible for completing the forms accurately and keeping their forms for auditing purposes. Do NOT return the forms to the IADR. For questions regarding ADA CERP, please contact the Senior Manager, Publications and Abstracts, Kourtney Skinner, at kskinner@iadr.org.

JOB OPPORTUNITY BULLETIN SERVICE (JOBS)

A Job Opportunity Bulletin Service, located in the registration area at the COEX Convention & Exhibition Center, is available to all registrants. Bulletin boards will be available to job recruiters to post job vacancies. If you would like to post an opening available at your university, private organization, and/or within the Government, please make sure that a contact name and address are listed on your sheet so that prospective candidates can contact you both on site and/or after the meeting.

COMPLIMENTARY WIFI

Complimentary WiFi is available in the COEX Convention & Exhibition Center. Please use the following access information, lowercase all text. Access ID: [iadr2016](#) Password: [iadr](#)

IADR MEETING MOBILE APP

To enhance the meeting experience for delegates, IADR is offering a mobile application for this General Session & Exhibition. In addition to being able to receive important meeting updates, the app will give you access to the most up-to-date schedule of events, exhibitor listing, floor plans, networking opportunities and more. Using your mobile device, visit www.iadr.org/2016app to download the app to your device or to view the Web version.

SOCIAL MEDIA

In addition to important meeting news being posted in the meeting app, IADR will tweet important updates using #IADR2016. Feel free to use that hashtag when sharing your meeting experience on Facebook, Instagram and Twitter. Follow @IADR on Twitter, and search IADR on Facebook, Instagram and LinkedIn to follow us to receive important news and updates throughout the year.

RECORDED SESSIONS

Many of the sessions at the meeting are recorded to be placed online in the IADR/AADR Knowledge Community. To see which sessions will go up online please look for the . All the recordings are eligible to receive continuing education credit. Please watch out for an email when the recordings go live and visit www.iadr.org/knowledgecommunity to view recordings from past meetings.

CHILD ACCESS TO SESSIONS

Children are not allowed access to the exhibition hall, poster presentations or the oral session meeting rooms. If you need assistance with arranging daycare, please contact the IADR Meetings Department at meetings@iadr.org or onsite.

SMOKING POLICY

The IADR General Session is a non-smoking meeting.

DRESS CODE

The dress code for this meeting will be business casual for the daytime sessions. Jackets and ties are not necessary for men and suits are not necessary for women.

ALCOHOL CONSUMPTION

IADR and the COEX Convention & Exhibition Center encourage responsible drinking for those drinking alcohol. Beer, wine and soft drinks will be offered at the Welcome Reception on Wednesday, June 22, and throughout the meeting dates. Alcohol will not be served to anyone under the age of 21. Be prepared to show photo identification. Alcoholic beverages are allowed only in specific areas and must not be taken out of these areas.

WAIVER OF LIABILITY

Each individual attending the IADR/APR General Session assumes all risks associated with his or her attendance and participation in on-and off-site activities. Each individual attendee agrees to indemnify and hold harmless the IADR and its governing bodies, officers, directors, employees and/or agents from all loss, damage or liability arising out of or related to his or her attendance at the 2016 IADR/APR General Session.

PRESENTER'S NOTE

Speaker Ready Room

The Speaker Ready Room is located in Room 301A at the COEX Convention Center, and will be open during the following hours:

Tuesday, June 21:	2:30 p.m. – 6:30 p.m.
Wednesday, June 22:	8 a.m. – 5 p.m. (peak usage: 8 a.m. – 2 p.m.)
Thursday, June 23:	7 a.m. – 5 p.m. (peak usage: 7 a.m. – 12 p.m.)
Friday, June 24:	7 a.m. – 5 p.m. (peak usage: 7 a.m. – 12 p.m.)
Saturday, June 25:	7 a.m. – 10:30 a.m.

To alleviate waiting for a computer station, you may wish to avoid peak times.

IMPORTANT NOTE: All oral presenters must check in at the Speaker Ready Room prior to their presentations. The room will be equipped with rehearsal computer stations for PowerPoint presenters. Any PowerPoint presenter who has not pre-submitted his/her presentation must bring it to the Speaker Ready Room (on CD-ROM or USB drive) **at least 24 hours** prior to the presentation to have it uploaded onto the server.

Presenter's Obligation

IADR regulations state that submission of an abstract carries with it the obligation of the author to present the paper in person. Requests to withdraw papers must have been made by completion of the online withdrawal and presenter change form BY THE PRESENTER prior to the meeting. Requests from anyone other than the presenter will not be honored. If a presenter finds it impossible to give the paper, the presenter must send written notification with an explanation and the name of a substitute presenter. The substitute should not already be presenting a paper on the program, and should be a co-author who is listed on the abstract. If an acceptable reason is not given, the presenter will not be allowed to submit a paper for the next General Session. NOTE: Lack of travel funds is not an acceptable reason to withdraw an abstract or delegate a substitute presenter.

FEATURED PRESENTATIONS

DISTINGUISHED LECTURE SERIES

On Wednesday, Thursday and Friday a plenary session is scheduled to interest delegates from all Scientific Groups.

Location: Hall D2 (COEX Convention & Exhibition Center)

WEDNESDAY, JUNE 22, 4:15 P.M.

Pekka Puska

Former Director General
National Institute for Health and Welfare
Helsinki, Finland

 **"Health in All Policies – Key for Prevention of Noncommunicable Diseases"**



Global public health is increasingly determined by a few chronic noncommunicable diseases. They are responsible for some 2/3 of all deaths in the world, some 80 % of them being in the developing world. These diseases are CVD, cancer, diabetes, COPD and dental caries, causing not only much human suffering but also major socioeconomic problems. The UN High Level Summit in 2011 called for global action to reduce the burden, and consequently WHO has prepared a Global NCD Action Plan for 2013-2020, with global targets.

The WHO plan emphasizes prevention of these "diseases of lifestyle" through "integrated prevention" targeting four main NCD related lifestyles: diet, physical activity, tobacco use and alcohol. Success in this would lead to broad health benefits in terms of many major NCDs, including oral health. WHO and other agencies have prepared numerous evidence based strategies and practical tools for promotion of these lifestyle changes in the population and for reaching the targets.

Changing health related lifestyles is always a challenge, but with appropriate theoretical frameworks, evidence based approaches and intensive enough action changes are possible. What has become increasingly obvious is that any success in this work calls for changes in different sectors of the society and actions in different policies. This is because lifestyles are deeply enrooted in the social, cultural and even physical environments.

Health in All Policies is a concept needed, and also increasingly approached in countries and internationally. The WHO Global Health Promotion Conference in Helsinki in 2013 discussed the international experiences of HiAP concept. The emphasis was from "what" to "how". The conference adopted the Helsinki statement on some key principles to be employed.

With the defined priority actions, with intersectoral work and with support of the population major success in NCD prevention and control can be achieved. Experiences from many countries, like Finland, show that NCD prevention is possible, has great potential, quite rapid effects and a major impact on public health and the socioeconomic development of the country.

THURSDAY, JUNE 23, 9:45 A.M.

Eunjoon Kim

Director and Professor
Center for Synaptic Brain Dysfunctions,
Institute for Basic Science (IBS), and
Department of Biological Sciences,
Korea Advanced Institute of Science
and Technology (KAIST)
Daejeon, Republic of Korea



 **"Synaptic Brain Dysfunction"**

A large number of synaptic proteins have recently been associated with diverse neuropsychiatric disorders, including autism spectrum disorders (ASDs), schizophrenia, attention deficit hyperactivity disorder, and mood disorders. ASDs represent a group of neurodevelopmental disorders characterized by impaired social and communication deficits and restricted and repetitive interests, behaviors, and activities. Although a large number of ASD-related genetic variations have been identified, only a small number of them have been verified for their causality by approaches including mouse genetics. In addition, neural mechanisms underlying the development of ASDs remain largely unknown. Synaptic scaffolding proteins at excitatory synapses interact with various other proteins including receptors and signaling molecules in order to couple receptor activation with downstream signaling events. In this presentation, I will discuss how defects in some of the excitatory synaptic scaffolding proteins are associated with NMDA receptor dysfunctions and autistic-like behavioral abnormalities in mice.

FRIDAY, JUNE 24, 9:45 a.m.

Taeghwan Hyeon

Director of Center for Nanoparticle
Research, Institute for Basic Science
(IBS)
School of Chemical and Biological
Engineering
Seoul National University
Seoul, Republic of Korea



 **"Designed Chemical Synthesis and Assembly of Uniform-sized Nanoparticles for Medical Application"**

Over the last 10 years, our laboratory has focused on the designed chemical synthesis, assembly and applications of uniform-sized nanocrystals. In particular, we developed a novel generalized procedure called as the "heat-up process" for the direct synthesis of uniform-sized nanocrystals of many metals, oxides, and chalcogenides. Furthermore we assemble these uniform-sized nanocrystals to fabricate multifunctional nanostructured materials and apply them to medicine and energy.

Using 3 nm-sized iron oxide nanoparticles, new non-toxic MRI contrast agent was realized for high resolution MRI of blood vessels down to 0.2 mm.² We reported the first successful demonstration of high-resolution in vivo three-photon imaging using biocompatible and bright Mn²⁺ doped ZnS nanocrystals.³ We fabricated tumor pH-sensitive magnetic nanogrenades composed of self-assembled iron oxide nanoparticles and pH-responsive ligands for theranostic application, enabling the visualization of small tumors of < 3 mm via pH-responsive T₁ MRI and fluorescence imaging and superior photodynamic therapeutic efficacy in highly drug-resistant heterogeneous tumors.⁴ We synthesized tumor pH-sensitive nanoformulated triptolide coated with folate targeting ligand to treat hepatocellular carcinoma (HCC), which has one of the worst prognosis for survival as it is poorly responsive to both conventional chemotherapy and mechanism directed therapy.

1. "Ultra-Large Scale Syntheses of Monodisperse Nanocrystals," *Nature Mater.* 2004, 3, 891.
2. "Large-scale Synthesis of Uniform and Extremely Small-sized Iron Oxide Nanoparticles for High-resolution T₁ MRI Contrast Agents," *J. Am. Chem. Soc.* 2011, 133, 12624.
3. "High-Resolution Three-Photon Biomedical Imaging using Doped ZnS Nanocrystals," *Nature Mater.* 2013, 12, 359.
4. "Multifunctional Tumor pH-Sensitive Self-Assembled Nanoparticles for Bimodal Imaging and Treatment of Resistant Heterogeneous Tumors," *J. Am. Chem. Soc.* 2014, 136, 5647.

SYMPOSIA

All symposia will take place at the COEX Convention & Exhibition Center and are open for all to attend. Visit www.iadr.org/iags or view the USB for a description of each symposium.

WEDNESDAY, JUNE 22, 1:30 P.M. – 4 P.M.

New for 2016! IADR Presidential Symposium: *Recent Advances in Orofacial Pain Research*

Sponsored by: IADR

Organizers: Marc Heft (University of Florida, Gainesville, USA) and Barry Sessle (University of Toronto, Canada) Room 401

WEDNESDAY, JUNE 22, 2:30 P.M. – 4 P.M.

E *A Sociological/Anthropological Perspective on Oral Health Inequalities*

Sponsored by: Behavioral, Epidemiologic, and Health Services Research, Global Oral Health Inequalities Research Network, Oral Health Research

Organizers: Barry Gibson (University of Sheffield, United Kingdom), Rebecca Harris (University of Liverpool, Cheshire, United Kingdom) & Lisa Jamieson (University of Adelaide, SA, Australia)

Hall E1

Preservation of dental hard tissue:

What patients want, what we do today,
what we might do in the future

The challenges, the uncertainties – and ways out
PD Dr. Falk Schwendicke, Charité Berlin, Germany

Treatment decisions – a trade-off between
patient wish and clinical evidence?

PD Dr. Michael Wicht, University Hospital of Cologne, Germany

Biomimetic dentistry – chances and challenges

Dr. Holger Müller, DMG, Germany

Session-Chair: Dr. Jin-Ho Phark

University of Southern California, USA

June 23, 2016

1:00 - 3:00 pm

COEX Center, Room 203

DMG

SYMPOSIA (continued)

C, E Clinical Investigations in Implant Dentistry: A Rainbow of Opportunities

Sponsored by: Implantology Research, Periodontal Research
Organizer: Michel Dard (Institut Straumann AG)
Hall E5

C, E Digital Dentistry - New Dental Material and Standardized Experimental Protocol for CAD/CAM

Sponsored by: Dental Materials, KADR Annual Meeting
Organizer: Seunghan Oh (Wonkwang University, Iksan, Republic of Korea)
Room 307A

C, E Immune Recognition and Dry Mouth Disease

Sponsored by: Salivary Research
Organizers: Indu Ambudkar (National Institute of Dental and Craniofacial Research, NIH, Bethesda, MD, USA), Seunghye Cha (University of Florida, Gainesville, USA), Kyungpyo Park (Seoul National University, Republic of Korea) & Caroline Shiboski (University of California - San Francisco, USA)
Hall E2

C, E Pulp-dentin Complex Formation in Development, Repair and Regeneration

Sponsored by: Pulp Biology & Regeneration Research, Mineralized Tissue
Organizers: George Huang (University of Tennessee Health Science Center, Memphis, USA) & Joo-Cheol Park (Seoul National University, Republic of Korea)
Room 402

C, E The Ortho-perio Connection: From Biology to the Clinic

Sponsored by: Periodontal Research
Organizers: Alpdogan Kantarci (Forsyth Institute, Cambridge, MA, USA) & Andreas Stavropoulos (Malmö University, Malmö, Sweden)
Room 403

THURSDAY, JUNE 23, 8 A.M. – 9:30 A.M.

C, E Bone Biology Research

Sponsored by: KADR Annual Meeting
Organizers: Jeong-Tae Koh (Chonnam National University, Gwang-Ju, Republic of Korea) & Hyung-Joon Kim (Pusan National University, Yangsan-si, Republic of Korea)
Hall E5

Clinical Translational Research on Dental Pulp Regeneration

Sponsored by: Pulp Biology & Regeneration Research, Stem Cell Biology, Clinical and Translational Science Network
Organizers: Tatiana Botero (University of Michigan, Ann Arbor, USA), Daniel Chiego (University of Michigan, Ann Arbor, USA) & George Huang (University of Tennessee, Memphis, USA)
Hall E1

C, E Early Detection and Prevention of Oral Disease

Sponsored by: KADR Annual Meeting
Organizer: Baek-Il Kim (Yonsei University College of Dentistry, Seoul, Republic of Korea)
Room 327A

C, E How the OMICS are Contributing to the Understanding of Caries

Sponsored by: Cariology Research, Microbiology/Immunology, Clinical and Translational Science Network
Supported by: Colgate-Palmolive Company
Organizer: Marcelle Matos Nascimento (University of Florida, Gainesville, USA)
Room 401

C, E Molecular Genetics of Craniofacial Development and Disease

Sponsored by: IADR-Asia Pacific Region
Organizer: Young Ku (Seoul National University, Republic of Korea)
Hall E3

C, E Oral Health Behavioral Initiatives that work for Global Indigenous Populations

Sponsored by: Behavioral, Epidemiologic and Health Services Research, Global Oral Health Inequalities Research Network, Oral Health Research, Women in Science Network
Organizers: Judith Albino (University of Colorado, Aurora, USA) & Tamanna Tiwari (University of Colorado, Aurora, USA)
Room 307A

Sending the Right Signals During Tooth Development and Regeneration

Sponsored by: Craniofacial Biology
Organizer: Ophir Klein (University of California - San Francisco, USA)
Room 403

C, E What is Translational Multi-disciplinary Research?

Sponsored by: Evidence-based Dentistry Network
Organizer: Jukka Meurman (University of Helsinki, Helsinki, Finland)
Hall E2

THURSDAY, JUNE 23, 10:45 A.M. – 12:15 P.M.

C, E MRONJ: Incidence, Pathophysiology, Diagnosis, and Treatment

Sponsored by: Microbiology / Immunology, Oral & Maxillofacial Surgery, Mineralized Tissue
Organizers: Xin Li (New York University, USA), Wonse Park (Yonsei University, Seoul, Republic of Korea) & Deepak Saxena (New York University, USA)
Room 327A

C, E Reducing Oral Health Inequalities in Elders Through Promoting Self-Care Practice

Sponsored by: Global Oral Health Inequalities Research Network, Geriatric Oral Research

Organizers: Edward C.M. Lo (University of Hong Kong) & Bei Wu (Duke University, Durham, N.C., USA)

Supported by: Johnson & Johnson
Room 403

C, E Setting Standards for Measuring Inequalities in Oral Health

Sponsored by: Global Oral Health Inequalities Research Network, Behavioral, Epidemiologic, and Health Services Research

Supported by: Colgate-Palmolive Company
Organizers: Georgios Tsakos (University College London, London, United Kingdom) & David Williams (Bart's and The London School of Medicine and Dentistry, England)
Hall E2

C, E Tissue Engineering and Dental Regeneration

Sponsored by: IADR-Asia Pacific Region

Organizers: Young Ku (Seoul National University, Republic of Korea)
Hall E3

C, E Wnt Signaling in Development, Inflammation and Regeneration

Sponsored by: Stem Cell Biology, Craniofacial Biology, Mineralized Tissue

Organizers: Jeremy Mao (Columbia University, New York, USA) & Cun-Yu Wang (University of California – Los Angeles, USA)
Hall E5

FRIDAY, JUNE 24, 8 A.M. – 9:30 A.M.

C, E Contemporary Concepts of Periodontal Tissue Regeneration and Stem Cell Research

Sponsored by: Periodontal Research, KADR Annual Meeting

Organizers: Seong-Ho Choi (Yonsei University, Seoul, Republic of Korea) & Seok-Mo Heo (Chonbuk National University, Jeonju, Jeonbuk, Republic of Korea)
Room 307A

C, E Dental Care-Related Fear/Anxiety Research: International Perspectives

Sponsored by: Behavioral, Epidemiologic, and Health Services Research, Oral Health Research, Pediatric Oral Health Research

Organizers: Daniel W. McNeil (West Virginia University, Morgantown, USA) & Jason Mathew Armfield (Australian Research Centre for Population Oral Health, Adelaide)
Hall E1

E Evidence-Based Practice Teaching and Learning in the Dental Curriculum

Sponsored by: Evidence-based Dentistry Network

Organizers: May CM Wong (The University of Hong Kong) & Robert Weyant (University of Pittsburgh, Pa., USA)
Room 327A

Mineralized Tissue Regeneration: Nano-Interfaces and Bioengineered Materials

Sponsored by: Dental Materials, Mineralized Tissue, Periodontal Research

Organizers: Xiaohua Liu (Baylor College of Dentistry, Dallas, TX, USA) & Venu Gopal Varanasi (Baylor College of Dentistry, Dallas, Texas, USA)
Room 402

Odontoblast Biology: The Past, Present and Future

Sponsored by: Pulp Biology & Regeneration Research, Stem Cell Biology, Mineralized Tissue

Organizers: Tatiana Botero (University of Michigan, Ann Arbor, USA) & Daniel K. Chiego (University of Michigan, Ann Arbor, USA)
Hall E2

C, E Pathogenicity of Oral Microbes

Sponsored by: IADR-Asia Pacific Region

Organizer: Young Ku (Seoul National University, Republic of Korea)
Hall E3

C, E Saliva and Salivary Glands: How to Make Things New?

Sponsored by: Salivary Research

Organizers: Walter Siqueira (University of Western Ontario, Canada) & Senggee Cha (University of Florida, Gainesville, USA)
Room 403

FRIDAY, JUNE 24, 10:45 A.M. – 12:15 P.M.

C Antibacterial and Bioactive Dental Restorative Materials: Do They Really Work?

Sponsored by: Dental Materials

Supported by: University of Washington, Washington Dental Services Endowed Chair Funds and Bisco Dental Products
Organizers: Daniel C. N. Chan (University of Washington, Seattle, USA) & Alireza Sadr (University of Washington, Seattle, USA)
Hall E1

C, E Esthetic Considerations for Primary Teeth

Sponsored by: Pediatric Oral Health Research, KADR Annual Meeting

Organizer: Young J. Kim (Seoul National University, Republic of Korea)
Hall E2

SYMPOSIA (continued)

Immunomodulatory Role of Dental Stem Cells

Sponsored by: Pulp Biology & Regeneration Research, Stem Cell Biology, Microbiology/Immunology
Organizers: Tatiana M. Botero (University of Michigan, Ann Arbor, USA) & Daniel J. Chiego (University of Michigan, Ann Arbor, USA)
Hall E3

Microenvironments for Mineralized Tissue Engineering

Sponsored by: Mineralized Tissue, Oral & Maxillofacial Surgery
Organizer: Daniel S. Oh (Columbia University, New York, USA)
Room 327A

C, E *Periodontal Pathogens and Modulation of Host Immune Responses*

Sponsored by: KADR Annual Meeting
Organizers: Youngnim Choi (Seoul National University, Republic of Korea) & Jeomil (Pusan National University, Yangsan, Republic of Korea)
Room 327B

C, E *Stem Cells and Biomedical Engineering*

Sponsored by: Periodontal Research
Organizers: Andreas Stavropoulos (Malmö University, Malmö, Sweden) & Kamal Babiker Elnour Mustafa (University of Bergen, Norway)
Room 403

C, E *Translational Regenerative Approaches for Dental and Craniofacial Applications*

Sponsored by: Dental Materials, Pulp Biology & Regeneration Research
Organizers: Marco Bottino (Indiana University, Indianapolis, USA) & Paulo Coelho (New York University, USA)
Hall E5

SATURDAY, JUNE 25, 8 A.M. – 9:30 A.M.

E *Breakthroughs in Postnatal Tooth Root and Cementum Formation*

Sponsored by: Mineralized Tissue
Organizers: Jian Feng (Baylor College of Dentistry, Dallas, TX, USA) & Eui-Sic Cho (Chonbuk National University, Jeonju, Republic of Korea)
Hall E1

Dental Nanomedicine: Advancing Drug Delivery, Imaging, and Personalized Medicine

Sponsored by: Oral Medicine & Pathology
Organizers: Dean Ho (University of California – Los Angeles, USA)
Room 307A

E *How Can the DC/TMD Improve Education and Clinical Practice*

Sponsored by: International RDC/TMD Consortium, Neuroscience
Organizers: Michail Koutris (Academic Centre for Dentistry Amsterdam (ACTA), Netherlands) & Thomas List (Malmö University, Malmö, Sweden)
Room 327A

C, E *Important Factors for Odontoblast Differentiation and Dentin Pulp Regeneration*

Sponsored by: Pulp Biology & Regeneration Research, KADR Annual Meeting
Organizer: Yun-Chan Hwang (Chonnam National University, Gwangju, Republic of Korea)
Hall E3

C, E *New Trends in Optical Technology Applied in Dentistry*

Sponsored by: Dental Materials, Cariology Research
Supported by: FAPESP – Sao Paulo Research Foundation, University of Sao Paulo – USP and University of Sao Paulo State UNESP
Organizers: Vanderlei Salvador Bagnato (University of Sao Paulo, Brazil)
Hall E5

C, E *Orofacial Pain: From the Bench to Bed Side*

Sponsored by: Neuroscience, Clinical and Translational Science Network, Oral Medicine & Pathology
Organizers: Ashok Kulkarni (National Institute of Dental and Craniofacial Research, NIH, Bethesda, MD, USA) & Seog Bae Oh (Seoul National University, Republic of Korea)
Hall E2

C, E *Retention of Teeth, Nutrition Status and Oral Health Related Quality of Life*

Sponsored by: Geriatric Oral Research, Behavioral, Epidemiologic, and Health Services Research, Nutrition Research
Organizers: Haiping Tan (The University of Adelaide, Australia) & Gerald John McKenna (Queens University Belfast, United Kingdom)
Room 401

HANDS-ON WORKSHOPS

The Hands-on Workshops (HOW) will take place at the COEX Convention Center. The workshops are complimentary; however, attendance is limited for HOW #2 and registrations were processed on a first-come, first-served basis. If you registered in advance, your ticket was included in your registration packet. Visit www.iadr.org/iags or view the USB for a description of each workshop.

MONDAY, JUNE 20, 8 A.M. – 5 P.M. (invitation only)

TUESDAY, JUNE 21, 8 A.M. – 5 P.M. (invitation only)

WEDNESDAY, JUNE 22, 8:30 A.M. – 12 P.M.

(invitation only)

**HOW#1: Orofacial Pain Taxonomies and Phenotypes:
Optimizing the Diagnostic Axes**

Sponsored by: International RDC/TMD Consortium
Network

Organizers: Frank Lobbezoo (Academic Centre for
Dentistry Amsterdam, Netherlands), Justin Durham
(Newcastle University, Newcastle-Upon-Tyne,
United Kingdom), Donald Nixdorf (University of
Minnesota, Minneapolis, US), Richard Ohrbach
(University of Buffalo, New York, US), Karen Raphael
(New York University, New York, US)

Room 403

THURSDAY, JUNE 23, 10:45 A.M. – 12 P.M.

C, E HOW #2: Abstract Quality: Getting Better

Sponsored by: Education Research Group

Organizer: Alison Bullock (Cardiff University, United
Kingdom)

Room 307A

Attendance is limited to 50 people, you must register to
attend.

FRIDAY, JUNE 24, 10:45 A.M. – 12 P.M.

**C, E HOW #3: Human Resources for Oral Health:
Planning to Address Inequalities**

Sponsored by: Global Oral Health Inequalities Research
Network

Organizer: Jennifer Gallagher (King's College London,
United Kingdom)

Room 307A

SATURDAY, JUNE 25, 8 A.M. – 9:30 A.M.

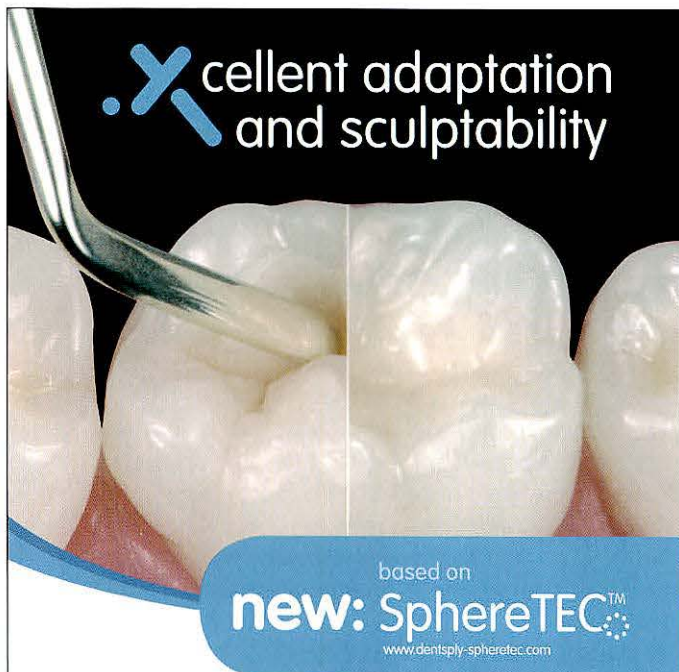
C, E HOW #4: Biomineralization & Regeneration

Sponsored by: Dental Materials Group

Organizers: Yoojin Shin (University of the Philippines,
San Juan), Angeline Lopez (University of Santo Tomas,
Manila, Philippines), Sok Keun Yoon (Myongji University,
Seoul, Republic of Korea), Deog Ho (Teddy) Kim
(Sungkyunkwan University, Seoul, Republic of Korea),
Mee Hyun Kim (Inha University, Incheon, Republic
of Korea), Joonsae Shin (KyungHee University, Seoul,
Republic of Korea), Gwang Jun Cha (Seoul National
University, Republic of Korea), Jin uk Oh (KyungHee
University, Seoul, Republic of Korea), Gi Tae Son
(Dongnam Health College, Suwon, Republic of Korea),
Yoon Oh Kim (Gimcheon University, Gimcheon
University), Hyun Dong Kim (Dongnam Health College,
Suwon, Republic of Korea), Tae Ik Jeong (KyungHee
University, Seoul, Republic of Korea), Jin Hee Park
(KyungHee University, Seoul, Republic of Korea), Kyoung
Seok Tae (KyungHee University, Seoul, Republic of
Korea), Hyunseok Kang (KyungHee University, Seoul,
Republic of Korea), Hyun Chul Cho (KyungHee
University, Seoul, Republic of Korea), You Sang Lee
(KyungHee University, Seoul, Republic of Korea), Sang
Bin Woo (KyungHee University, Seoul, Republic of
Korea), Jung-Hoon Ahn (KyungHee University, Seoul,
Republic of Korea), Joon seong Heo (KyungHee
University, Seoul, Republic of Korea), Chang-Seon
Yoo (KyungHee University, Seoul, Republic of Korea),
Yeo Rok Oh (KyungHee University, Seoul, Republic of
Korea), Taesung Kim (Seoul National University, Republic
of Korea)

Room 403

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Join IADR Symposium on June 24, 2016
at 03:00 - 05:00 PM, Conference Room 203.

Professor Dr. Roland Frankenberger (University of Marburg, DE) lecturing on the topic of "Advancements in Filler Technology of Dental Composites".

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KEYNOTE LECTURES

Each Scientific Group/Network has been given the option to invite a keynote speaker to give an overview of research in that area of expertise. Delegates can benefit from these 30-minute presentations by getting an overall understanding of what is currently being done in other disciplines. Visit the website or view the USB for a description of each presentation. The keynote presentations will take place at the COEX Convention Center.

Behavioral, Epidemiologic and Health Services Research

George Tsakos (University College London, England)
Academic Legacy of Aubrey Sheiham and Future Directions in Dental Research

Thursday, June 23, 8 a.m.
Room 308BC

Jostein Grytten (University of Oslo, Norway)
Incentives and Remuneration Systems in Dental Services
Saturday, June 25, 8 a.m.
Room 308BC

Cariology Research

Baek Il Kim (Yonsei University College of Dentistry, Seoul, Republic of Korea)
Optical Fluorescence Technology for Detection of Oral Disease
Thursday, June 23, 10:45 a.m.
Room 203

Annette Wiegand (University of Göttingen, Germany)
Erosive Tooth Wear and Oral Hygiene – Friends or Foes?
Friday, June 24, 8 a.m.
Room 203

Craniofacial Research

Rulang Jiang (Cincinnati Children's Hospital Medical Center, Ohio, USA)
Integration of Signaling Pathways Regulating Tooth Organogenesis and Patterning
Wednesday, June 22, 2:30 p.m.
Room 101

Dental Materials

Yu Zhang (New York University, USA)
Bonding between Porcelain Veneer, Zirconia Framework, and Resin Cement: Challenges and Opportunities
Wednesday, June 22, 2:30 p.m.
Room 105

Stephen Bayne (University of Michigan School of Dentistry,
Ann Arbor, USA)
*Current Challenges for Dental Materials Research: The Street
Light Effect*
Thursday, June 23, 10:45 a.m.
Room 102

Andreas Braun (University of Marburg, Germany)
Lasers in Dentistry – Alternative or adjunct?
Thursday, June 23, 10:45 a.m.
Room 104

Alessandra Reis (State University of Ponta Grossa, Brazil)
*Quality Report of Clinical Trials About Adhesives in Cervical
Lesions*
Thursday, June 23, 8 a.m.
Room 104

Marco Ferrari (Tuscan School of Dental Medicine, Livorno,
Italy)
*State of the Art on Reconstruction of Endodontically Treated
Teeth*
Friday, June 24, 8 a.m.
Room 104

Ricardo Carvalho (University of British Columbia,
Vancouver, Canada)
Fundamentals of Nanofibre-reinforced Composites
Friday, June 24, 10:45 a.m.
Room 105

Siegward Heintze (Ivoclar Vivadent AG, Schaan,
Liechtenstein)
*Do Physical Parameters Predict the Fractures and Wear of
Composite Restorations?*
Friday, June 24, 10:45 a.m.
Room 104

Gottfried Schmalz (University Clinics, Regensburg,
Germany)
How to Improve the Biocompatibility of Dental Materials
Friday, June 24, 10:45 a.m.
Room 102

Roland Frankenberger (University of Marburg, Germany)
*The Role of Adhesion in Minimally Invasive Dentistry - From
Lab to Chair*
Saturday, June 25, 8 a.m.
Room 104

Irena Sailer (University of Zurich, Geneva, Switzerland)
Influence of Restorations on the Soft Tissue Esthetics
Saturday, June 25, 8 a.m.
Room 105

Geriatric Oral Health

Kazu Ikebe (Osaka University, Japan)
*Association of Occlusal Condition With Cognition in Older
People*
Friday, June 24, 10:45 a.m.
Room 203

Neuroscience

William Maixner (Duke University, Durham, North
Carolina, USA)
*Unraveling Complex Persistent Pain Conditions with Phenotypic
and Genetic Biomarkers: Implications for Translational Pain
Medicine*
Thursday, June 23, 10:45 a.m.
Room 327B

Nutrition Research Group

Angus Walls (Edinburgh Dental Institute, UK)
What Is the Role of Diet in Caries Prevention?
Thursday, June 23, 8 a.m.
Room 308A

Periodontal Research

P. Mark Bartold (University of Adelaide, Australia)
*Induced Pluripotent Stem Cells: A New Frontier for
Regenerative Periodontal Medicine*
Thursday, June 23, 8 a.m.
Hall E4

Pharmacology/Therapeutics/Toxicology

W. Peter Holbrook (University of Iceland, Reykjavik)
Development of Drugs for Local Treatment of Oral Conditions
Friday, June 24, 8 a.m.
Room 308A

LUNCH & LEARNING

During lunch, you may discuss topics of current interest with the researchers as identified below. There is a \$65 fee to cover the cost of lunch and attendance will be limited to 10 persons per table, including the speaker. Assignments were processed on a first-come, first-served basis. If you purchased your ticket in advance it was included in your registration packet. Space permitting, tickets will be sold on site. Visit www.iadr.org/iags or view the USB for a description of each Lunch & Learning Session (ticketed event).

THURSDAY, JUNE 23, 2016, 12:30 – 1:45 P.M.

Table #s 1–12 Location: Room 103 (ticketed event)

Dental Materials

C, E Table #1: Fractal Geometry for Failure Analysis of Ceramics

Speaker: Jason Griggs (University of Mississippi Medical Center, Jackson, USA)

Implantology Research

C, E Table #2: How to Decide Loading Protocols After Implant Surgery

Speaker: Richard Leesungbok (Kyung Hee University, Seoul, Republic of Korea)

Women in Science Network

C, E Table #3: Benefits of Laser Therapy on Nerve Repair

Speaker: Patricia Freitas (University of São Paulo, Santana de Parnaíba, Brazil)

Global Oral Health Inequalities Research Network, Behavioral, Epidemiologic, and Health Services Research & Clinical and Translational Science Network

C, E Table #4: Sugar and Public Health, Including Dental Disease

Speaker: Peter Mossey (University of Dundee, United Kingdom) & David Williams (Queen Mary University of London, United Kingdom)

LION SYMPOSIUM

Host Modulation Therapy : New Concepts for Clinical Application



Thursday, June 23rd; 1:30 P.M. - 3:30 P.M.

Location: Room 101, Coex Convention Center

Featured Speakers:



Prof. Iain L. C. Chapple

University of Birmingham, UK

Sources and suppressors of oxidative stress in managing oral inflammation.



Prof. Dana T. Graves

University of Pennsylvania, US

Inflammation plays a critical role in periodontitis through its effects on leukocytes and osteoblasts/osteocytes.

Moderator:

Prof. Mark I. Ryder

University of California, San Francisco, US

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Salivary Research

C, E *Table #5: Adult Stem Cell Culture for Salivary Gland Regeneration: Where are We Now?*

Speaker: Youjung (Nicole) Seo (McGill University, Montreal, Canada)

Behavioral, Epidemiologic, and Health Services Research, Education Research & Global Oral Health Inequalities Research Network

C, E *Table #6: Effects of Environmental Change on Human Health - A Contribution of Caregivers*

Speaker: Bapanaiah Penugonda (New York University, USA)

Periodontal Research

C, E *Table #7: How Different Periodontal Treatments Affect the Periodontal Microbial Ecology*

Speaker: Magda Feres (Universidade Guarulhos, Brazil)

C, E *Table #8: Biomarkers of Periodontal Disease in Gingival Crevicular Fluid*

Speaker: Gary Armitage (University of California, San Francisco, USA)

C, E *Table #9: Emerging Regenerative Approaches for Periodontal Regeneration*

Speaker: Shinya Murakami (Osaka University, Suita, Osaka, Japan)

C, E *Table #10: New Paradigm Linking Periodontal Disease and Systemic Diseases*

Speaker: Kazuhisa Yamazaki (Niigata University, Japan)

E *Table #11: Designing Clinically Relevant Basic Science Projects*

Speaker: Alpdogan Kantarci (The Forsyth Institute, Cambridge, Mass., USA)

C *Table #12: Relationship Between Periodontitis and Rheumatoid Arthritis*

Speaker: P. Mark Bartold (University of Adelaide, Australia)

FRIDAY, JUNE 24, 2016, 12:30 – 1:45 P.M.

Table #s 13–23 Location: Room 103 (ticketed event)

International RDC/TMD Consortium & Neuroscience

Table #13: Sensory Testing in Orofacial Pain Evaluation

Speaker: Lene Baad-Hansen (Aarhus University, Denmark)

Geriatric Oral Research & Behavioral, Epidemiologic, and Health Services Research

C, E *Table #14: Oral Health in Older People: What Data and Data Linkage Would Assist Research?*

Speaker: Linda Slack-Smith (University of Western Australia, Crawley)

Implantology Research

C, E *Table #15: Implant Surface Finish, Now and Then*

Speaker: Takashi Sawase (Nagasaki University, Nagasaki, Japan)

International RDC/TMD Consortium Network

C, E *Table #16: Standardized Assessment Protocol for Temporomandibular Disorders*

Speaker: Jean-Paul Goulet (Université Laval, Québec, Canada)

Neuroscience & Prosthodontics Research

C, E *Table #17: Motor Learning and Bruxism*

Speaker: Takashi Iida (Nihon University, Matsudo, Japan)

Periodontal Research

C, E *Table #18: The Use of Lasers During Non-surgical Periodontal Therapy*

Speaker: Dagmar Else Slot (Academic Centre for Dentistry Amsterdam (ACTA), Netherlands)

C, E *Table #19: Peri-implantitis: Should We Treat or Remove the Implant?*

Speaker: Jamil Shibli (Universidade Guarulhos, Sao Paulo, Brazil)

C, E *Table #20: Potential Uses of Mesenchymal Stem Cells in Periodontics*

Speaker: Cristina Villar (Universidade de São Paulo, Brazil)

Periodontal Research & Clinical and Translational Science Network

C, E *Table #21: Designing a Clinical Trial for Root Coverage Therapies*

Speaker: Dimitris Tatakis (Ohio State University, Columbus, USA)

Periodontal Research

C *Table #22: Tooth Extraction and Ridge Preservation*

Speaker: Fridus van der Weijden (University of Amsterdam, Netherlands)

Cariology Research

Table #23: The Challenges in Measuring Caries to Understand Host Susceptibility Factors

Speaker: Alexandre Vieira (University of Pittsburgh, Penn., USA)

MEET-A-MENTOR LUNCH FOR NEW INVESTIGATORS

The Meet-a-Mentor luncheon session format is designed to enhance the learning experience for new investigators. This is an opportunity for all new investigators to network with noted mentors in specific research fields. Senior scientists, who are also past recipients of the IADR Distinguished Scientist Award and/or past Mentor Awardees, will lead motivational and realistic discussions about the paths they took during their academic careers.

FRIDAY, JUNE 24, 12:30 P.M. – 1:45 P.M.

Table #s 1–6

Location: Room 201

Table #1: Periodontal Disease

Speaker: **Mark Bartold**

(University of Adelaide, Australia)

Mark Bartold is professor of periodontics and director of the Colgate Australian Clinical Dental Research Centre at the University of Adelaide. He is a past president of the International Academy of Periodontology and the ANZ Division of the IADR, the Asian Pacific Society of Periodontology, the IADR Periodontal Research Group and the Division of Periodontics of the Royal Australasian College of Dental Surgeons. He is a member of the editorial board of eight international dental journals an associate editor of the *Journal of Periodontal Research* and editor of the *Australian Dental Journal*. Bartold's research interests are focused on the use of periodontal stem cells with bioactive scaffolds for periodontal regeneration and the relationship between rheumatoid arthritis and periodontal inflammation. In 2004 he was awarded membership of the Order of Australia for his contributions to periodontal research and education. He has received numerous awards for his research contributions the most recent being the Straumann/ IADR Award for Periodontal Regenerative Medicine and the IADR Distinguished Scientist Award for Research in Periodontal Disease. He has authored over 250 scientific articles, and holds four patents arising from his research work.



Table #2: Pharmacology/Therapeutics/ Toxicology

Speaker: **Peter Holbrook**

(University of Iceland, Reykjavik)

Peter Holbrook graduated in dentistry from Edinburgh University in 1972, and then researched gram-negative anaerobic bacteria in the same University obtaining his Ph.D. in 1976. He worked in Manchester University and Edinburgh University, completing specialist training in medical microbiology and oral medicine. In 1981 he moved to



Iceland. He is a professor at the University of Iceland and a specialist in oral medicine at the Landspítali National University Hospital. In Iceland, Holbrook's research interests widened to include, for example, cariogenic bacteria, caries risk assessment, tooth erosion and several oral medicine projects. From 1998 he has collaborated extensively with the Faculty of Pharmacy in the University of Iceland on various research projects particularly related to local drug development. He has served on the Icelandic Science Council, the Research Fund of the University of Iceland, has published over 100 papers in refereed journals and presented over 150 communications to scientific meetings. Holbrook has sat on the Editorial Boards of four international dental journals and was the editor-in-chief of *ACTA Odontologica Scandinavica* from 2010-2014. He was president of the Scandinavian Division of the International Association for Dental Research (NOF/ IADR) 1997-99 and again in 2007. He was president of the Pan European Region of IADR 2002-03 and has served on several IADR Committees. In 2005, Holbrook was honored by the Royal College of Surgeons of Edinburgh with a fellowship in dental surgery *ad hominem* and in 2015 he was awarded the IADR Distinguished Scientist Award in Pharmacology, Therapeutics and Toxicology.

Table #3: Dental Materials

Speaker: **Bart Van Meerbeek**

(University of Leuven, Belgium)

Bart Van Meerbeek obtained his D.D.S. in 1988 and Ph.D. in 1993, both at Katholieke Universiteit Leuven (KU Leuven). Appointed by the Research Foundation of Flanders, he conducted research abroad in 1994 at University of Texas Health Science Center at San Antonio, USA, and later also for three months at University of Missouri – Kansas City, USA. In 1995, he obtained tenure at KU Leuven and since then teaches biomaterial sciences. From 2000 to 2010, he was appointed research professor at KU Leuven, having mainly a research task. He then founded the BIOMAT research group and is currently the head of BIOMAT with about 20 Ph.D. and postdoctoral researchers. In 2005 he was promoted to full professor. In parallel he was appointed in 2004 at the University Hospitals Leuven to become section head in 2009. His primary research involves studies related to dental adhesive technology. Newer research lines deal with dental ceramics, cariogenicity and biocompatibility of dental materials, bioactive materials and pulp-preservation material technology. His research has been published in more than 280 international journals and has been honoured with awards, such as: triennial Robert Stock Award for Biomedical Sciences (1996), Award in Biomedical Sciences of the Research Council of KU Leuven (1998), IADR Young Research Award (2000), 2014 IADR/AADR William J. Gies Award, 2015 IADR Wilmer Souder Award (Dental Materials). Since 2003, he is holder of the Toshio Nakao



Chair for Adhesive Dentistry at KU Leuven. He was president of IADR/PEF in 2006-2007, and he is currently secretary of CED-IADR. Since 2004, he is editor-in-chief of the *Journal of Adhesive Dentistry*.

**Table #4: Pharmacology/Therapeutics/
Toxicology**

Speaker: **Athena Papas**
(Tufts University, Boston, Mass., USA)



Athena Papas is the Erling Johansen Professor of Dental Research, and the head of the Division of Oral Medicine at Tufts University School of Dental Medicine. She received her dental degree from Harvard University, Boston, Mass., USA, and her Ph.D. in oral biology from Massachusetts Institute of Technology, Cambridge, USA. She had a pre-doctoral fellowship at Massachusetts General Hospital and a post-doctoral Fellowship at Children's Hospital. As principal investigator she has led over 100 studies in the fields of geriatric dentistry, cancer, HIV, Sjögren's Syndrome, xerostomia and medically compromised patients. Her Ph.D. thesis was the isolation and characterization of a phosphoprotein, which controls mineralization in enamel. Papas has worked in multiple areas of translational research, including medication and device therapies. Her significant accomplishments include: studies on the treatment of mucositis and caries in HSCT and radiation therapy patients; clinical trials to bring products such as Duraphat, Enamelon, Caphosol, Salagen, Pro-Health and Sensistrip to market; and studies on the effects of medication on the oral cavity in order to develop treatment protocols for high risk populations. For Sjögren's Syndrome, she has studied the microbiome, proteome and has worked to identify a biological target for the disease. She was PI of the Prevention of Adult Caries Study, a multicenter FDA clinical trial of a chlorhexidine coating. In the past, she has worked with the Pearl Network on a bisphosphonate necrosis, implants and deep caries. She has conducted research on Nutrition and Oral Health and recently did mortality studies on these participants.

Table #5: Oral Biology Research
Speaker: **Masaharu Takigawa**

Masaharu Takigawa is professor & director of the Advanced Research Center for Oral and Craniofacial Sciences, Okayama University Dental School/Graduate School of Medicine, Dentistry and Pharmaceutical Sciences in Okayama, Japan. He began his career as a cell biologist after graduating from Osaka University Dental School and completion of his Ph.D. in biochemistry at Osaka University. Following a research associateship in the McArdle Laboratory for Cancer Research at the University of Wisconsin, Madison, USA, he became a faculty member in the Department



of Biochemistry at Osaka University of Dentistry, before joining Okayama University Dental School where he has held multiple positions, including dean. For the past four decades, he has delved into multiple aspects of the structure and function of cartilage, making key observations relevant to oral biology. Takigawa has published nearly 300 original articles, many in prestigious scientific journals. He has also developed and shared worldwide several key cellular resources that promote advances in cartilage biology, including the HCS-2/8 cell line, which retains a chondrocytic phenotype. With his re-discovery of connective tissue growth factor/CCN family protein 2 as a key molecule promoting endochondral ossification and cartilage regeneration, Takigawa pioneered a new field, integrating his knowledge in oral biology with that of the CCN family, and providing novel insights. As a forerunner in this field, Takigawa co-founded the International CCN Society in 2002 and is currently president-elect of the Scientific Board of the International CCN Society. He was the recipient of the 2015 IADR Distinguished Scientist Award for Research in Oral Biology.

Table #6: Stem Cell Research
Speaker: **Jeremy Mao**

Jeremy J. Mao is currently professor at Columbia University and Edwin Robinson Endowed Chair. Mao began his faculty career as an assistant professor at University of Pittsburgh at a time when tissue engineering became an emerging discipline.



Mao's earlier work in tissue engineering involved the culture of mesenchymal stem/progenitor cells and their directed differentiation towards several skeletal lineages. In 2000, Mao was recruited to the University of Illinois and while in Chicago, he published ground-breaking work on the use of stem cells in regenerating cartilage structures. In Chicago, Mao's laboratory had two inventions that later became a technology that received FDA approval as a product in 2011. In 2006, Mao was recruited to Columbia University to build the interface between stem cell biology and tissue engineering. Mao's research team has been at Columbia for the past ~10 years and made several important discoveries including a cover article in the *Lancet*. In addition, Mao's work has been published in *Nature Medicine*, *Lancet*, *Science Translational Medicine*, *Cell Stem Cell*, *JCI*, etc. Specifically with a *Lancet* report in 2010, Dr. Mao's research group proposed the concept of regeneration by cell homing. Mao has published over 260 scientific papers and proceedings, and written 2 books. Mao's research has led to over 70 patents and establishment of 2 biotechnology companies. Mao has received a number of prestigious awards including Yasuda award, IADR Distinguished Scientist Award and Spenadel Award. Mao is consultant to funding agencies in the United States (NIH, NSF, DARPA), and over 18 other countries.

KADR Clinicians' Day

Saturday, June 25th 2016

KADR Symposium I - Conservative Dentistry & Endodontics

Rm 101

Organizer: Woo Cheol Lee (Seoul National University)

- | | |
|-------------------|--|
| 1:00 PM ~ 1:20 PM | Jeong-Won Park (Yonsei University)
<i>Proper concentration of vital tooth bleaching agent</i> |
| 1:20 PM ~ 1:40 PM | Sun-Young Kim (Kyunghee University)
<i>Minimal invasive treatment in restoration for root canal treated tooth</i> |
| 1:40 PM ~ 2:00 PM | Jeong-Hong Ha (Kyungpook National University)
<i>Debris extrusion by glide path instrument</i> |
| 2:00 PM ~ 2:15 PM | Seong-Wook Jang (Jahayeon Clinic)
<i>Vital-pulp therapy with Pozzolan-based MTA</i> |
| 2:15 PM ~ 2:30 PM | Hyeon-Cheol Kim (Pusan National University)
<i>Cyclic fatigue fracture vs torsional fracture of NiTi endodontic rotary file</i> |

KADR Symposium II - Digitization and New Trends in Prosthodontics

Rm 101

Organizer: June-Sung Shim (Yonsei University) & Jung-Bo Huh (Pusan National University)

- | | |
|-------------------|---|
| 2:45 PM ~ 3:05 PM | Jang-Hyun Paek (Kyunghee University)
<i>Comparative analysis of various digital 3D implant planning systems and surgical guides in dental implantology</i> |
| 3:05 PM ~ 3:25 PM | Ji-Man Park (Seoul National University)
<i>Reproducibility of 6 intraoral scanners: Sectional analysis on complicated intracoronal preparations</i> |
| 3:25 PM ~ 3:45 PM | Seung-Geun Ahn (Chonbuk National University)
<i>Influence of zirconia surface conditioning on shear bond strength between zirconia and dental resin cement</i> |
| 3:45 PM ~ 4:00 PM | Yu-Ri Heo (Chosun University)
<i>Polished surface in lower complete denture</i> |
| 4:00 PM ~ 4:15 PM | Jae-Hoon Lee (Yonsei University)
<i>Individualized medicine in dentistry: Mesiodens</i> |



SPECIAL EVENTS

4TH IADR ACADEMY: ADVANCED BIOTECHNOLOGY IN DENTAL RESEARCH

TUESDAY, JUNE 21

9 a.m. – 6 p.m. Location: CC, Room 102

Advance registration required

OPENING CEREMONIES & AWARDS PROGRAM FEATURING DISTINGUISHED LECTURE SERIES SPEAKER

WEDNESDAY, JUNE 22

4:15 p.m. – 6 p.m. Location: CC, Hall D2

The Opening Ceremonies & Awards Program will include presentations of the various IADR Awards and Fellowships and a President-elect Address by Jukka Meruman. Also, Pekka Puska will give his Distinguished Lecture Series presentation titled "Health in All Policies – Key for Prevention of Noncommunicable Diseases."

WELCOME RECEPTION ENTERTAINMENT PROVIDED BY PROFESSOR BYUNG-MOO MIN

WEDNESDAY, JUNE 22

6 p.m. – 7 p.m. Location: CC, Hall B Lobby

Immediately following the Opening Ceremonies of the IADR/APR General Session, you're invited to attend the Welcome Reception. Attendance is strictly limited to registered attendees of the IADR/APR General Session and registered Accompanying Persons.

NEW MEMBER & FIRST-TIME ATTENDEE ORIENTATION

WEDNESDAY, JUNE 22

1:45 p.m. – 2:15 p.m. Location: CC, Hall E4

All new members and first-timers at the General Session are invited to attend. Graduate and post-doctoral students are also welcome to attend. If you are interested in becoming more involved in the Association or learning more about specific Groups of Divisions/Sections within the IADR, please attend this orientation.

PRESIDENT'S INDUCTION CEREMONY

FRIDAY, JUNE 24

7 p.m. – 7:30 p.m. Location: IC, Harmony Ballroom
(invitation only)

NEW! PRESIDENTIAL SYMPOSIUM: RECENT ADVANCES IN OROFACIAL PAIN RESEARCH

WEDNESDAY, JUNE 22

1:30 p.m. – 4 p.m. Location: CC, Room 401

New for 2016 is the addition of a Presidential Symposium to the General Session. This symposium, which is organized by IADR President Marc Heft, is themed "Recent Advances in Orofacial Pain Research." The face and mouth have special biological, emotional and psychological meaning to humans and represent sites of some of the most common pain states. Several types of orofacial pain, especially when chronic, can present a diagnostic and management challenge to clinicians, mainly because their underlying aetiology and pathogenesis are still unclear. However, several advances in our understanding of orofacial pain have been obtained over the past 2 decades from research studies in laboratory animals and humans. This Symposium will review many of these advances, including new insights into the biological, molecular and genetic processes underlying acute and chronic orofacial pain, and new evidence-based approaches developed for the diagnosis and management of orofacial pain states.

Learning Objectives:

- Provide an improved understanding of the peripheral processes in orofacial tissues involved in the onset and maintenance of orofacial pain and its modulation.
- Provide an improved understanding of central processes involved in the onset and maintenance of orofacial pain and its modulation.
- Gain knowledge of advances in the clinical diagnosis and management of orofacial pain states.

Introduction, Barry Sessle

Peripheral Mechanisms in Nociceptive Pain: Inflammatory Mediators, Ken Hargreaves

Central Mechanisms: Understanding the Transition to Persistent Pain, Koichi Iwata
(Presented by Masamichi Shinoda)

Orofacial Pain: Clinical Perspectives and Future Challenges, Peter Svensson

Discussant, Karen Raphael

Discussant, Christopher Peck

Summary and Future Perspectives, Barry Sessle

**DENTAL MATERIALS GROUP
RECEPTION (ticketed event)
SPONSORED BY BISCO, INC., DENTSPLY
SIRONA, GC CORPORATION, HERAEUS
KULZER, IVOCAR VIVADENT, INC.,
TOKUYAMA DENTAL CORPORATION
AND VITA**

WEDNESDAY, JUNE 22

6 p.m. – 8 p.m. Location: CC, Lu Restaurant

Fees:

Member/Retired/Non-Member/Accompanying Person: \$50

Student/Student Non-Member: \$40

**KOREA NIGHT RECEPTION
SPONSORED BY OSSTEM IMPLANT
HOSTED BY KADR**

WEDNESDAY, JUNE 22

7 p.m. – 9 p.m. Location: CC, Room 103
(open to all registered attendees)

**JERUSALEM NIGHT RECEPTION –
PROMOTION OF THE 2016 IADR/PER
CONGRESS
SPONSORED BY ISRAEL MINISTRY
OF TOURISM**

THURSDAY, JUNE 23

6:30 p.m. – 8 p.m. Location: CC, Room 102

**JAPAN NIGHT RECEPTION
SPONSORED BY GC CORPORATION**

THURSDAY, JUNE 23

6:30 p.m. – 8 p.m. Location: IC, Harmony Ballroom
(invitation only)

INDUSTRY-SPONSORED SYMPOSIA

THURSDAY, JUNE 23

*Periodontitis, Cardiovascular Disease and Diabetes: A Role for
Good Oral Health*

1 p.m. – 3 p.m. Location: CC, Room 102
(sponsored by Philips Oral Healthcare)

*Preservation of Dental Hard Tissue - What Patients Want,
What We Do Today and What We Might Do in the
Future*

1 p.m. – 3 p.m. Location: CC, Room 203
(sponsored by DMG)

*Host Modulation Therapy: New Concepts for Clinical
Application*

1:30 p.m. – 3:30 p.m. Location: CC, Room 101
(sponsored by LION Corporation)

FRIDAY, JUNE 24

Probiotics – Safety and Efficacy for Dental Health

1 p.m. – 3 p.m. Location: CC, Room 208
(sponsored by BioGaia ProDentis)

Advancements in Filler Technology of Dental Composites

3 p.m. – 5 p.m. Location: CC, Room 203
(sponsored by Dentsply Sirona)

UNIVERSITY RECEPTIONS

TUESDAY, JUNE 21

2 p.m. – 8 p.m. Indiana University Dental School
Alumni Association Meeting
(invitation only)
Location: CC, Hall E1

THURSDAY, JUNE 23

7 p.m. – 8:30 p.m. Peking University School of
Stomatology Academic Reception
(invitation only)
Location: CC, Room 208

7 p.m. – 8:30 p.m. Seoul National University Reception
(invitation only)
Location: CC, Lu Restaurant

FRIDAY, JUNE 24

5:30 p.m. – 7 p.m. The University of Hong Kong
Faculty of Dentistry Reception
(invitation only)
Location: CC, Room 104

6 p.m. – 9 p.m. UCLA School of Dentistry
Reception (invitation only)
Location: IC, Grand Orchid Room

GROUP/NETWORK BUSINESS MEETINGS & RECEPTIONS

SCIENTIFIC GROUP/NETWORK	BUSINESS MEETING	RECEPTION
Behavioral, Epidemiologic and Health Services Research	Thursday, 5 p.m. – 6 p.m. CC, Room 105	Thursday, 6 p.m. – 7 p.m. CC, Room 105 #
Cariology Research	Thursday, 5 p.m. – 6 p.m. CC, Room 104	Thursday, 6 p.m. – 7 p.m. CC, Room 104
Craniofacial Biology	Thursday, 5 p.m. – 6 p.m. CC, Room 103	Thursday, 6 p.m. – 7:30 p.m. CC, Room 103*
Dental Anesthesiology Research	Friday, 5 p.m. – 6 p.m. CC, Room 101	Friday, 6 p.m. – 7 p.m. CC, Room 101
Dental Materials	Thursday, 5 p.m. – 6 p.m. CC, Room 102	Wednesday, 6 p.m. – 8 p.m. CC, Lu Restaurant
Education Research	Thursday, 5 p.m. – 6 p.m. CC, Room 201	Thursday, 6 p.m. – 7 p.m. CC, Room 201
Evidence-based Dentistry Network	Friday, 12:30 p.m. – 2 p.m. CC, Room 327C	
Geriatric Oral Research Group	Thursday, 5 p.m. – 6 p.m. CC, Room 203	Thursday, 6 p.m. – 7 p.m. CC, Room 105 #
Global Oral Health Inequalities Research Network	Friday, 5 p.m. – 6 p.m. CC, Room 307A	Friday, 6 p.m. – 7 p.m. CC, Room 307A
Implantology Research	Thursday, 5 p.m. – 6 p.m. CC, Room 101	Thursday 6 p.m. – 7:30 p.m. CC, Room 101+
International RDC/TMD Consortium Network	Thursday, 4 p.m. – 5 p.m. CC, Room 307BC	Thursday, 6 p.m. – 7:30 p.m. CC, Room 327A^
Mineralized Tissue	Thursday, 5 p.m. – 6 p.m. CC, Room 300	Thursday, 6 p.m. – 7:30 p.m. CC, Room 103*
Neuroscience	Thursday, 5 p.m. – 6 p.m. CC, Room 327A	Thursday, 6 p.m. – 7:30 p.m. CC, Room 327A^
Nutrition Research		Thursday, 6 p.m. – 7 p.m. CC, Room 105 #
Oral Health Research	Thursday, 5 p.m. – 6 p.m. CC, Room 401	Thursday, 6 p.m. – 7 p.m. CC, Room 401
Oral Medicine and Pathology	Thursday, 6 p.m. – 7 p.m. CC, Room 403	Thursday, 5 p.m. – 6 p.m. CC, Room 403
Pediatric Oral Health Research	Thursday, 4 p.m. – 6 p.m. CC, Room 402	
Periodontal Research	Thursday, 5 p.m. – 6 p.m. CC, Room 308 BC	Thursday, 6 p.m. – 7 p.m. CC, Room 308BC
Prosthodontics Research	Thursday, 5 p.m. – 6 p.m. CC, Room 318B	Thursday 6 p.m. – 7:30 p.m. CC, Room 101+
Pulp Biology & Regeneration	Thursday, 5 p.m. – 6 p.m. CC, Room 327B	Thursday, 6 p.m. – 7:30 p.m. CC, Room 103*
Salivary Research	Thursday, 5 p.m. – 6 p.m. CC, Room 308A	Thursday, 6 p.m. – 7 p.m. CC, Room 308A
Stem Cell Biology Research	Thursday, 5 p.m. – 6 p.m. CC, Room 307A	

*+ # ^ Joint Receptions

COMPETITIONS

IADR UNILEVER HATTON COMPETITION

Location: COEX Convention Center
Competition Rooms: 310, 311, 314
Judge Deliberation Room: 315

TUESDAY, JUNE 21

7:30 a.m. Judges arrive
8 a.m. – 7:30 p.m. Oral Presentations (closed-door competition)

JUNIOR and SENIOR (Clinical Research) Categories

Location: CC, Room 310

SENIOR – CLINICAL RESEARCH Category

TIME	NAME
8 a.m.	Aliye Akcali
8:20 a.m.	Omar Alageel
8:40 a.m.	Nneka Onyejaka
9 a.m.	Gonzalo Borgia
9:20 a.m.	George Mwai
9:40 a.m.	Break
10 a.m.	Daniela Barroso
10:20 a.m.	Akitsu Ikeda
10:40 a.m.	Seok-Mo Heo
11 a.m.	Nadezda Bessudnova
11:20 a.m.	Lunch Break
12 p.m.	Juan Oyarzo
12:20 p.m.	Michael Wolf
12:40 p.m.	Gustavo Molina
1 p.m.	Break

JUNIOR Category

TIME	NAME
1:20 p.m.	Mor Shlezinger
1:40 p.m.	Danyon Graham
2 p.m.	Dorra Chaabouni
2:20 p.m.	Paul Hankinson
2:40 p.m.	Laura Lee
3 p.m.	Break
3:20 p.m.	Kawthar Ali
3:40 p.m.	Bahayer Al Abad
4 p.m.	Hanin Al Rubai
4:20 p.m.	Lourdes Rivera
4:40 p.m.	Break
5 p.m.	Uche Amaechi
5:20 p.m.	Krizette Rozmiarek
5:40 p.m.	Angela Rosero
6 p.m.	Harriet Byrne
6:20 p.m.	Meredith Williams
7 p.m.	Mychi Nguyen

Completion – Deliberations Begin

TUESDAY, JUNE 21

8 a.m. – 5 p.m. Oral Presentations (closed-door competition)

SENIOR (Basic Science) Category (#1)

Location: CC, Room 314

TIME	NAME
8 a.m.	Muthanna Ahmed
8:20 a.m.	Soraia Macari
8:40 a.m.	Robert Bolt
9 a.m.	Dorette Kritzing
9:20 a.m.	Salman Aziz Mian
9:40 a.m.	Break
10 a.m.	Aliaa Khadre
10:20 a.m.	Mohit Khandelwal
10:40 a.m.	Gainer Jasa
11 a.m.	Hala Al Homs
11:20 a.m.	Lunch Break
12 p.m.	Yukako Yamauchi
12:20 p.m.	Thuyen Truong
12:40 p.m.	Hiromi Sakashita
1 p.m.	Gabriel Mizraji
1:20 p.m.	Mijoo Kim
1:40 p.m.	Marco Lovera
2 p.m.	Shuxian Lin

SENIOR (Basic Science) Category (#2)

Location: CC, Room 311

TIME	NAME
8 a.m.	Rong Zhou
8:20 a.m.	Rehab El Maddani
8:40 a.m.	Gabriela Salvadori da Silva
9 a.m.	Gazelle Crasto
9:20 a.m.	Dareen Fteita
9:40 a.m.	Break
10 a.m.	Masahiro Yamakawa
10:20 a.m.	Richard Miron
10:40 a.m.	Nury Jiménez
11 a.m.	Jessica Cecil
11:20 a.m.	Lunch Break
12 p.m.	Padma Srinivasan
12:20 p.m.	Victor Feitosa
12:40 p.m.	Pablo Fontanetti
1 p.m.	Enrique Liviach
1:20 p.m.	Insoon Chang
1:40 p.m.	Sung Hee Lee
2 p.m.	Heidi Steinkamp

SENIOR (Basic Science) Finalists

Location: CC, Rooms 311, 314

TIME	NAME
3 p.m.	Finalist #1
3:20 p.m.	Finalist #2
3:40 p.m.	Finalist #3
4 p.m.	Finalist #4
4:20 p.m.	Finalist #5
4:40 p.m.	Finalist #6

IADR JOSEPH LISTER AWARD FOR
NEW INVESTIGATORS
POSTER COMPETITION

THURSDAY, JUNE 23

8 a.m. – 11 a.m. Location: CC, Room 318A

7:30 a.m. Presenters put up posters.

8 a.m. – 10:40 a.m. Poster Presentations
 (closed-door competition)

11:30 a.m. Poster Tear-down

TIME	NAME
8 a.m.	H.M.H.N. Bandara
8:20 a.m.	Yehuda Klein
8:40 a.m.	Jin Hee Kwak
9 a.m.	Wenwen Liu
9:20 a.m.	Break
9:40 a.m.	Lina Niu
10 a.m.	Marcelle Nascimento
10:20 a.m.	Ji Woon Park
10:40 a.m.	Sheena Ramsay
Completion 11 a.m. – Deliberations Begin	

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IADR Distinguished Scientist Award
IADR Innovation in Oral Care Awards
IADR Innovation in Oral Care
Awards Reception

Heraeus Kulzer
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IADR Dental Materials Group Reception
IADR Heraeus Kulzer Travel Awards



IADR Wilmer Souder Award

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IADR Distinguished Scientist Award

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AWARDS AND FELLOWSHIPS

The Awards and Fellowships the Association provide recognition of and support for individuals who have made significant contributions to dental research.

IADR AWARDS AND FELLOWSHIPS

IADR Distinguished Scientist Awards:

Basic Research in Biological Mineralization Award

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Basic Research in Periodontal Disease Award

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Behavioral, Epidemiologic and Health Services Research Award

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Pulp Biology & Regeneration Award

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Salivary Research Award

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Wilmer Souder Award

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Young Investigator Award

Supported by P&G Professional Oral Health, Crest + Oral-B

IADR Academy of Osseointegration Innovation in Implant

Sciences Award: This Award is jointly sponsored by the IADR and the Academy of Osseointegration (AO), with funding provided exclusively by the AO. The AO recognizes the need for investigators to produce implant research that can be applied in clinical practice and be used to maintain and improve oral health and quality of life. The Award is intended to help investigators pursue innovative and novel research in oral care that involves, but is not limited to, dental implant therapy.

IADR Colgate Research in Prevention Travel Award: This award was established to support students and young investigators doing research in the area of oral disease prevention. The award is given this year to six individuals through a generous donation from the Colgate-Palmolive Company.

IADR David B. Scott Fellowship: This annual fellowship rotates alphabetically through the IADR Divisions and is funded by the estate of the late Nancy M. Scott in honor of David B. Scott, IADR Past President and former Director of the NIDCR. The 2016 Fellowship is awarded in the Scandinavian Division.

IADR Distinguished Service Award: This award is presented to an individual member for outstanding instances of service to the Association or distinguished service over a period of time. It is intended to recognize members who have not served as officers of IADR. The award is supported by J. Morita Corporation.

IADR E.W. Borrow Memorial Award: This award is intended to recognize and stimulate research in oral health promotion for children. The plaque and monetary award are generously supported by The E.W. Borrow Foundation.

IADR Heraeus Kulzer Travel Award: The objective of this award program is to encourage young investigators to undertake research in new/innovative testing methods of dental materials, and new ideas and approaches to improve and develop dental materials. The award is given this year to five individuals through generous support from Heraeus Kulzer.

IADR Honorary Membership: The three most recent living IADR Past Presidents who are no longer serving on the Board may select an Honorary Member who has made significant contributions to and/or supports dental research.

IADR Innovation in Oral Care Awards: The Innovation in Oral Care Awards are jointly sponsored by IADR and GSK, with funding provided exclusively by GlaxoSmithKline. Proposals focus on new innovative oral care technologies that can be used routinely by the public to maintain and improve oral health and the quality of life.

IADR John J. Clarkson Fellowship: This award is funded by donations from individual IADR members and the IADR Institutional Sections in honor of John J. Clarkson, past Executive Director of IADR. This is a biennial fellowship and is awarded to a worthy recipient who is conducting research in Public Dental Health.

IADR John A. Gray Fellowship: This biennial Fellowship rotates alphabetically through the IADR Divisions. It is funded by donations from members and sponsors in tribute to John A. Gray, past Executive Director of the IADR. The next Fellowship will be awarded in 2017.

IADR Joseph Lister Award for New Investigators: Supported by Johnson & Johnson Consumer Inc., the IADR Joseph Lister Award for New Investigators was created to award young investigators with original research in oral disease prevention or oral health promotion.

IADR Lion Dental Research Award for Young Investigators: Established to support improvements in the oral health sciences through the stimulation of junior researchers. This Award is generously supported by the Lion Corporation. The three awards this year are given in the IADR Oral Health, Periodontal and Salivary Research Groups.

IADR Norton M. Ross Fellowship: This biennial fellowship rotates in reverse alphabetical order through the IADR Divisions. This award honors the late Dr. Norton M. Ross, a dentist and pharmacologist, who made significant contributions to the fields of oral medicine and dental clinical research, creating a major impact on the public's oral health. The 2016 Fellowship is being awarded in the Canadian Division.

IADR Toshio Nakao Fellowship: This fellowship was established to allow a young investigator to obtain training and experience in dental materials science at a center of excellence. This biennial fellowship is supported by the GC Corporation. The next Fellowship will be awarded in 2017.

IADR Unilever Hatton Divisional Award: Awards are open to candidates from IADR Divisions and non-Divisional Sections. The number of candidates is determined by a formula based on membership. Each IADR Division and non-Divisional Section will be notified of the travel fund each year and will set up a competition with appropriate standards for a Division/non-Divisional Section Award. The selected candidates will be eligible to compete in the IADR Unilever Hatton Competition and Awards. In 2016, 58 individuals from 25 Divisions and six non-Divisional Sections will receive funding for travel to this year's meeting. These awards are generously supported by Unilever Oral Care.

IADR Unilever Hatton Competition and Awards: Awards are made to young investigators selected by each of the IADR Divisions and non-Divisional Sections and judged best in presenting meritorious poster presentations on original research at the IADR/APR General Session. The competition is divided into three categories (junior; senior [basic science], and senior [clinical research]), according to the formal education of the competitors. In 2016, 58 individuals from 25 Divisions and six non-Divisional Sections will receive funding for travel to this year's meeting. Two winners may be selected for each category, with each first- and second-place winner receiving a monetary award and plaque. These awards are generously supported by Unilever Oral Care.

IADR/AADR William J. Gies Award: This annual award recognizes the best papers published in the Journal of Dental Research for the period of July 1 through June 30 preceding the IADR/APR General Session. One paper is selected in each category: Clinical, Biological, and Biomaterials & Bioengineering. The award is supported by J. Morita Corporation.

IADR/AADR JDR Cover of the Year Award: This recognition is presented annually for the previous year's JDR cover image that enhances the impact of the article, and is both scientifically novel and aesthetically pleasing.

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THE EXHIBITION

The Exhibition will be held in Hall B at the COEX Convention & Exhibition Center. The exhibit hours are as follows:

Thursday: 9 a.m. – 5 p.m.
Friday: 9 a.m. – 5 p.m.

EXHIBITOR LIST

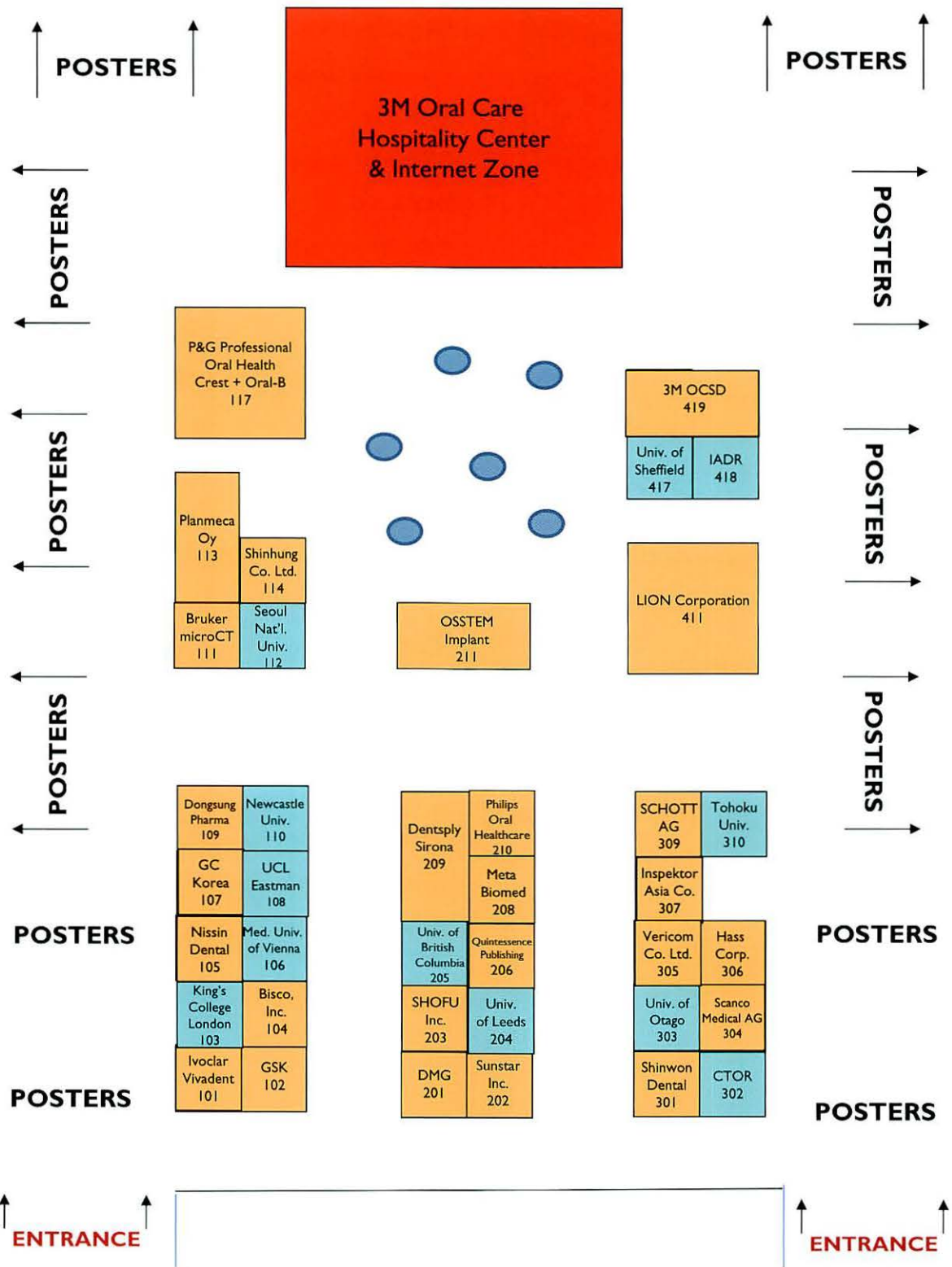
Exhibitor listings as of June 1, 2016

NEW! Denotes first-time exhibitors

* Denotes IADR and/or AADR Membership

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EXHIBIT HALL FLOOR PLAN



Corporate Exhibitor
 Institutional/Government/Nonprofit Exhibitor

CORPORATE

***3M Oral Care Dental Products**
St. Paul, Minn., USA
Tel: +1.651.736.2468
Fax: +1.651.736.2729
www.3M.com/dental

**Hospitality
Center,
Booth #: 419**

3M Oral Care manufactures and markets more than 2,000 products and services designed to address a complete spectrum of needs throughout a lifetime. Honored with an 11 consecutive wins of Anaheim's Most Innovative Dental Company, 3M technology provides complete, trusted solutions that enable clinical & personal success for dental professionals.

Bisco, Inc.
Schaumburg, Ill., USA
Tel: +1.847.534.6000
Fax: +1.847.891.5049
www.bisco.com

Booth #: 104

With science at the heart of its strategy, BISCO develops innovative products for modern dentistry and dental research. BISCO's product line features over 800 items sold in more than 60 countries. This includes our most recently developed materials, THERACAL™ LC and ALL-BOND UNIVERSAL™, as well as research tools such as the ACUVOL™, MICRO TENSILE and SHEAR BOND testing systems.

Bruker microCT
Kontich, Belgium
Tel: +32.3.877.57.05
Fax: +32.3.877.57.69
www.bruker-microct.com

Booth #: 111

Bruker microCT develops and manufactures SkyScan microtomography and nanotomography systems for non-destructive 3D imaging of objects' internal microstructure in both in vivo and ex-vivo applications. The company is a trusted solution provider in many areas of scientific research with more than 1,000 microCT systems installed around the world, attested by hundreds of publications.

***Dentsply Sirona**
Konstanz, Germany
Tel: +49.7531.583.201
Fax: +49.7531.583.660.201
www.dentsplysirona.com

Booth #: 209

Dentsply Sirona - The Dental Solutions Company™

Dentsply Sirona is the world's largest manufacturer of professional dental products and technologies. The Company was created in 2016 when DENTSPLY International and Sirona Dental Systems merged to form Dentsply Sirona. From their separate early beginnings more than 100 years ago through the transformative merger of two storied dental companies, Dentsply Sirona together sets a global standard for dental manufacturing, technology development and digital treatment. With a sales presence in more than 120 countries, Dentsply Sirona delivers dental solutions for better, safer and faster dentistry to patients and practitioners virtually everywhere in the world.

***DMG Dental-Material**
Hamburg, Germany
Tel: +49.0.40.84006.0
Fax: +49.0.40.84006.222
www.dmg-dental.com

Booth #: 201

For over 50 years, DMG is well-known as innovative manufacturer of high quality dental materials. The portfolio includes successful brand products such as LuxaCore, Luxatemp, Flonigum or Icon. Today, dentists in more than 80 countries rely on the quality of DMG brand products made in Germany.

NEW! Dongsung Pharmaceuticals
Seoul, Republic of Korea
Tel: +82.2.6911.3600
Fax: +82.2.3492.0231
http://dongsung-pharm.co.kr/eng

Booth #: 109

BioGaia ProDentis is a dietary supplement containing Lactobacillus reuteri Prodentis that has been tested in a number of clinical studies and proven effective and safe for both adults and children. Lactobacillus reuteri ProDentis is the first clinically proven probiotic for healthy gums.

***GC Korea**
Seoul, Republic of Korea
Tel: +82.10.9378.1254
Fax: +82.2.313.2275
<http://www.gckorea.co.kr>

Booth #: 107

The GC of the 21st century takes a global approach to people's health and happiness. GC Korea will continue to play a part in society through dental products in order to make the twenty-first century the "Century of Health."

***GlaxoSmithKline**
Seoul, Republic of Korea
Tel: +81.2.709.4162
Fax: +82.2.796.4710
www.gsk.com

Booth #: 102

GSK is a world leading consumer healthcare company on a mission to help people : Do more, Feel better, Live longer. Our business develops and markets some of the world's most trusted and best-selling brands in oral health, pain management, respiratory, nutrition, digestive health and skin health such as Sensodyne, Polident Voltaren and Panadol.etc

NEW! Hass Corp.
Gangwon-do, Republic of Korea
Tel: +82.2.2083.1368
Fax: +82.2.2083.1366
<http://hassbio.com>

Booth #: 306

Hass Corp. is specialized in developing and manufacturing all types of ceramic dental material in Korea. We strive to deliver value to the lives of our customers by supplying innovative and high end dental materials. Seeking the best ways to meet customer's needs is our mission. Located in the clean land of "Kangwon-do" in Korea, HASS Corporation keeps delivering natural value to you.

NEW! Inspektor Asia Co.
Seoul, Republic of Korea
Tel: +82.10.6389.2750
Fax: +82.2.3454.1403
<http://www.inspektorasia.com>

Booth #: 307

Qray Technology used for fluorescent plaque examination that can diagnose tooth cracks, incipient caries, plaque, etc.

Ivoclar Vivadent, Inc.
Amherst, N.Y., USA
Tel: +1.800.533.6825
<http://www.ivoclarvivadent.com>

Booth #: 101

Ivoclar Vivadent is a global leader in innovative materials and processes for quality esthetic dentistry.

***LION Corporation**
Tokyo, Japan
Tel: +81.3.3621.6211
Fax: +81.3.3621.6048
www.lion.co.jp/en

Booth #: 411

LION Corporation has been the leading company of oral care products in Japan. We will introduce a new approach of preventing gum disease focused on the "Host care" in our booth and LION sponsored symposium. And will send corporate messages and exhibit products in Japan and Asian pacific region.

NEW! Meta Biomed
Cheongju-si, Republic of Korea
Tel: +82.43.230.8830
Fax: +82.43.217-1988
www.meta-biomed.com

Booth #: 208

Meta Biomed developed world's first cordless obturation system and also it is the world's largest manufacturer of Guttapercha Point/Paper Point. We manufacture high quality Endodontic Material and Electronic Device, Restorative Material.

NEW! Nissin Dental Products, Inc.
Kyoto, Japan
Tel: +81.75.257.7860
Fax: +81.75.257.7256
www.nissin-dental.net

Booth #: 105

We began producing dental study models and gradually grew into an entity providing dental education products to customers worldwide. Nissin has a strong presence in 50 countries. For over 65 years, our products have received passionate support from doctors, professors, hygienists, assistants and students.

OSSTEM Implant
Seoul, Korea
+82.10.4134.0326
+82.02.2016.7090
www.osstem.com

Booth #211

OSSTEM Implant is ranked as the 1st company in the Asia-Pacific area and ranked as the 5th company in the World as a professional enterprise specializing in Implants. OSSTEM Implant produces not only the apparatus such as U/C, CT and Panorama but also has business transactions in 67 countries through 22 foreign corporations, direct distribution platforms and dealers in Asia, Europe and North America etc.

Philips Oral Healthcare
Singapore
Tel: +65.8322.5958
Fax: +65.6358.2641
www.philips.com.sg

Booth #: 210

From its number one Dental Professional recommended Sonicare toothbrush to Philips Zoom! whitening systems, Philips provides dental professionals with advanced solutions designed to meet their patient's specific needs and empowers consumers to achieve superior oral health.

Planmeca Oy
Helsinki, Finland
Tel: +358.20.7795.500
Fax: +358.20.7795.555
www.planmeca.com

Booth #: 113

Planmeca Oy is one of the world's leading dental equipment manufacturers with a product range covering digital dental units, CAD/CAM solutions, world-class 2D and 3D imaging devices and comprehensive software solutions. Headquartered in Helsinki, Finland, Planmeca's products are distributed in over 120 countries worldwide. With a strong commitment to pioneering innovations and design, Planmeca is the largest privately held company in its field.

***P&G Professional Oral Health,**
Crest + Oral-B
Beijing, China
Tel: +86.158.1054.0020
Fax: +86.10.8045.2420
www.pg.com

Booth #: 117

Part of the P&G oral health, Oral-B® is a brand founded, used and recommended by dentists. Oral-B® manual and power toothbrushes are used by more dentists worldwide. At the exhibition, Oral B® will demonstrate its most advanced power brushing technologies and the science behind them.

Quintessence Publishing
New Malden, England, UK
Tel: +44.0.20.8949.6087
Fax: +44.0.20.8336.1484
www.quintpub.co.uk

Booth #: 206

Quintessence provides the latest scientific and clinical information in formats designed to meet the varying needs of busy professionals: books, journals, DVDs and symposia. Dental practitioners, researchers and students have all come to rely on Quintessence for timely articles, clearly written and superbly illustrated books and texts by world-renowned experts.

Scanco Medical AG
Zurich, Switzerland
Tel: +41.44.805.9800
Fax: +41.44.805.9801
www.microCT.com

Booth #: 304

Scanco Medical (www.microCT.com), based in Switzerland, is a global supplier of micro-CT systems as well as contract-based CT scanning services. The scanners offer 3-dimensional images with sub-micron resolution with density calibration, short scan times and high-throughput. Systems come with a complete suite of image analyses, 3D visualization and image/data archiving solutions.

SCHOTT AG
Landshut, Germany
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Fax: +49.0.871.826.400
www.schott.com/epackaging

Booth #: 309

Let's make your filling materials even more unique. You can benefit from 75 years of SCHOTT expertise in melting and grinding high purity dental glass powders. As the quality leader with the broadest portfolio, we offer first-class support for your developments - from simple modifications to unique new glass fillers.

NEW! Shinhung Co., Ltd.
Seoul, Republic of Korea
Tel: +82.2.6366.2038
Fax: +82.2.6366.2131
shinhung.en.ec21.com

Booth #: 114

Korea's largest and oldest dental company, Shinhung has been leading the dental industry for over 60 years. Renowned for its unit chairs, with its implants gaining in popularity, and capable of supplying a dentist's every need, Shinhung products receive demand from all over the world.

NEW! Shinwon Dental Co., Ltd
Seoul, Republic of Korea
Tel: +82.2.2188.9197
Fax: +82.2.2188.9190
www.shinwon-dental.com/eng

Booth #: 301

Shinwon Dental is the leading manufacturer of magnetic implant denture system. The complete product line-up compatible with various implants increases the efficiency of treatment offering the optimized selection for each case.

SHOFU Inc.
Kyoto, Japan
Tel: +81.75.561.0411
Fax: +81.75.561.0412
www.shofu.co.jp

Booth #: 203

Since 1922, Shofu has been a leading manufacturer of highly acclaimed dental and laboratory supplies enjoyed by dentists, hygienists and laboratory technicians around the world. A premier provider of minimally invasive cosmetic solutions, Shofu strives to meet patient needs through innovative products that exceed the demands of today's discriminating dental professionals.

***Sunstar Inc.**
Ibaraki, Japan
Tel: +81.72.631.4718
Fax: +81.72.631.4719
www.sunstar.com

Booth #: 202

SUNSTAR strives to promote oral care.

PERIOCLINE: Dental Ointment for periodontitis.

GUIDOR: Guiding Oral Rehabilitation.

GUM: Giving you and your patients the right tools for optimal oral care.

NEW! Vericom Co., Ltd.
Gangwon-do, Republic of Korea
Tel: +070.4268.0313
Fax: +82.31.441.2883
<http://www.vericom.co.kr>

Booth #: 305

Making the World Smile

INSTITUTIONAL/GOVERNMENT/ NONPROFIT ENTITIES

**Consortium for Translational
Orthodontic Research**
New York, N.Y., USA
Tel: +1.212.998.9884
Fax: +1.212.995.4241
<http://orthodonticscientist.org>

Booth #: 302

The Consortium for Translational Orthodontic Research (CTOR), affiliated with New York University and Harvard University, is a nucleus for advancement of translational research in the field of Orthodontics, and a driving force in the dissemination of findings to the community and the advancement of the specialty.

**International Association for
Dental Research**
Alexandria, Va., USA
Tel: +1.703.548.0066
Fax: +1.703.548.1883
www.iadr.org

Booth #: 418

The International Association for Dental Research (IADR) is a nonprofit organization dedicated to: (1) advancing research and increasing knowledge for the improvement of oral health worldwide; (2) supporting and representing the oral health research community; and (3) facilitating the communication and application of research findings. Visit the exhibit booth to learn more about IADR programs and services, and publications including the IADR/AADR *Journal of Dental Research* and the new IADR/AADR *JDR Clinical & Translational Research*.

***King's College London Dental
Institute**
London, England, UK
Tel: +44.0.207.188.1881
www.kcl.ac.uk/dentistry

Booth #: 103

King's College London Dental Institute is a leading centre in oral, craniofacial and dental research. Excellent facilities, cutting-edge technology and international collaborations underpin four divisions:

- Craniofacial Development & Stem Cell Biology
- Mucosal & Salivary Biology
- Population & Patient Health
- Tissue Engineering & Biophotonics

Our Oral Clinical Research Unit offers world-leading clinical and laboratory services, acting as a central reference point to research, external collaborators and strategic industry partners.

***Newcastle University**
Newcastle Upon Tyne, England
Tel: +44.191.222.8293
Fax: +44.191.222.6137
www.ncl.ac.uk/dental/research/cohr

Booth #: 110

At Newcastle University, our focus is translational research; organized through the Centre for Oral Health Research – a multidisciplinary, cross Faculty Centre. Our mission is to conduct research of international excellence that leads to new scientific knowledge and improvements in disease prevention and patient care, relevant to societal need.

***School of Clinical Dentistry,
University of Sheffield**
Sheffield, England, UK
Tel: +44.114.271.7998
www.sheffield.ac.uk/dentalschool

Booth #: 417

The School of Clinical Dentistry, one of the top schools in the UK, trains dentists and therapists alongside a vibrant postgraduate and research community. Recent advancements include our three-year DClinDent in Restorative Dentistry and Orthodontics and our innovative programs in Diagnostic Oral Pathology, Dental Technology and Dental Materials Science.

***Seoul National University**
Seoul, Republic of Korea
Tel: +82.2.740.6801
Fax: +82.2.745.1907
<http://dentistry.snu.ac.kr>

Booth #: 112

Seoul National University School of Dentistry, the oldest educational institution for dentistry in Korea, is one of the most prestigious schools today. With our vision "We Guarantee Excellence in Dentistry," we will pursue excellence in education, research and patient care.

***Tohoku University**
Sendai, Japan
Tel: +81.22.717.8278
Fax: +81.22.717.8278
www.dent.tohoku.ac.jp/english

Booth #: 310

The Graduate School of Dentistry's mission is to train international leaders and highly specialized professionals of dentistry, dental care and oral health for the next generation, who have a research-oriented outlook and a scientific mind, by utilizing characteristic programs such as the Interface Oral Health Science program, the Master's course (Japan's first master's course in dentistry) and the East Asia Double Degree Program (Japan's first DD PhD course in Dentistry). Here the education and research systems of various fields converge, utilizing the facilities of Tohoku University, one of the world's leading comprehensive universities.

***UCL Eastman Dental Institute** **Booth #: 108**
London, England, UK
Tel: +44.020.3456.1092
Fax: +44.020.3456.1274
www.ucl.ac.uk/eastman

Find out about the largest postgraduate dental school in Europe; a world-leading, academic centre. With a focus on translational research, education, and training, we offer a wide range of study opportunities – Master's degrees, specialty training, certificates, diplomas, research doctorates and CPD courses – from our twin sites in central London.

University Clinic of Dentistry, **Booth #: 106**
Medical University of
Vienna, Austria
Vienna, Austria
Tel: +43.1.40.070.5401
www.unizahnklinik-wien.at/en

Pre-announcement and information on upcoming international masters programs in clinical dentistry (esthetics, periodontology, oral surgery and implantology, endodontics)

***University of British Columbia** **Booth #: 205**
Vancouver, BC, Canada
Tel: +1.604.822.3567
Fax: +1.604.822.3562
www.dentistry.ubc.ca

The UBC Faculty of Dentistry, situated on the beautiful Pacific west coast of Canada, offers a broad spectrum of dentistry, dental hygiene, graduate, and postgraduate programs. These include stand-alone M.Sc. and Ph.D. Craniofacial Science degrees as well as a variety of specialties and residencies. Visit our booth to learn about the wide range of postdoctoral fellow and visiting scientist/professor collaborative research opportunities available.

***University of Leeds, School of** **Booth #: 204**
Dentistry
Leeds, England, UK
Tel: +44.113.343.6159
Fax: +44.113.343.6548
http://medhealth.leeds.ac.uk/
info/1200/school_of_dentistry

Situated in the heart of the UK, University of Leeds, School of Dentistry, is a leading international dental school. With a world-class research profile and strong international partnerships, we deliver a continuum from basic and clinical science through to translational research that, in turn, drive our innovative postgraduate programs. Visit our booth and see how our expertise can help your organization achieve its research goals, or how our program can help you achieve your full potential.

***University of Otago, Faculty** **Booth #: 303**
of Dentistry: New Zealand's
National Centre for Dentistry
Dunedin, New Zealand
Tel: +64.3.479.5662
Fax: +64.3.479.5661
www.otago.ac.nz/dentistry/index.html

Ranked 8th best in the 2015 QS World University Rankings our mission is to pursue excellence in research, and to provide high-quality undergraduate and postgraduate education and training of dentists, dental hygienists, dental technicians and dental therapists—to improve health nationally and internationally.

SCIENTIFIC PROGRAM

NOTE: * = Presenting Author

C = Clinician Track

E = Educator Track

S = Student Presenter

All scientific sessions are located at the COEX Convention & Exhibition Center.

MONDAY

Seq#: 1 Monday, 20 June 2016, 8 a.m. – 5 p.m.
Hands-on Workshop, 403

Orofacial Pain Taxonomies and Phenotypes: Optimising the Diagnostic Axes

Chairpersons: M. Drangsholt, J. Durham, F. Lobbezoo, D. Nixdorf, R. Ohrbach and K. Raphael

0001 8 a.m. Taxiing Forwards Orofacial Pain Taxonomies - Part 1. D. NIXDORF* (School of Dentistry, University of Minnesota, Minneapolis, Minnesota, USA)

0002 9 a.m. Taxiing Forwards Orofacial Pain Taxonomies - Part 2. M. DRANGSHOLT* (Departments of Oral Medicine and Dental Public Health Sci, University of Washington, Seattle, Washington, USA)

10 a.m. Large Group Discussion of the Issues and Specific Goals.

12:30 p.m. Small Working Groups to Derive Recommendations.

3 p.m. Group Presentation of Recommendations.

4 p.m. Refinement of Working Group

Recommendations.

Tuesday, 21 June 2016, 8 a.m. – 5 p.m.

Orofacial Pain Taxonomies and Phenotypes: Optimising the Clinical and Research Utility of DC/TMD Axis II

Chairpersons: R. Ohrbach and K. Raphael

0003 8 a.m. Optimising the Clinical and Research Utility of DC/TMD Axis II - Part 1. R. OHRBACH* (University of Buffalo, N.Y., USA)

0004 9 a.m. Optimising the Clinical and Research Utility of DC/TMD Axis II - Part 2. K. RAPHAEL* (New York University, New York, USA)

10 a.m. Large Group Discussion of the Issues and Specific Goals.

12:30 p.m. Separate Working Groups.

3 p.m. Group Discussion of Recommendations.

4 p.m. Group Refinements for Presentation on

Wednesday.

Wednesday, 22 June 2016, 8:30 a.m. – 12 p.m.

Orofacial Pain Taxonomies and Phenotypes: Plenary Session-Discussion and final recommendations

Chairperson: J. Durham

0005 8:30 a.m. Introduction. J. DURHAM* (Newcastle University, Newcastle, United Kingdom)

0006 9 a.m. Summaries from Monday Workshops. D. NIXDORF*, M. DRANGSHOLT (University of Minnesota, Minneapolis, Minnesota, USA)

0007 9:40 a.m. Summaries of Tuesday Workshops. R. OHRBACH*, K. RAPHAEL (University of Buffalo, N.Y., USA)

10:20 a.m. Discussion of Presentations.

11:10 a.m. Final Summaries.

TUESDAY

Seq#: 2 Tuesday, 21 June 2016, 9 a.m. – 6 p.m.
Satellite Symposium, 102

4th IADR Academy: Advanced Biotechnologies in Dental Research

0008 9 a.m. Brief Welcome & Introductory Remarks. M. HEFT*, B.-M. MIN (University of Florida, Gainesville, Florida, USA)

0009 9:10 a.m. Principles and Analysis of Ca²⁺ Signaling Pathways. S. MUALLEM* (NIDCR/NIH, Bethesda, Maryland, USA)

0010 10 a.m. Therapeutic Implications & Applications of Human Stem Cells. M.-S. CHANG* (Seoul National University, Seoul, Korea (the Republic of))

10:40 a.m. Break.

0011 11 a.m. Preclinical & Clinical Studies to Support Extraction Socket Biology. K.-T. KOO* (Seoul National University, Seoul, Korea (the Republic of))

11:40 a.m. Lunch Break.

0012 1:20 a.m. Bacterial invasion of Host Cells & Tissues. Y. CHOI* (Seoul National University, Seoul, Korea (the Republic of))

0013 2 p.m. *Drosophila Melanogaster*: A Powerful Genetic Model System to Study Molecular Functions & Relevant Behaviors. J. LEE* (Pusan National University, Busan, Korea (the Republic of))

2:40 p.m. Break.

0014 2:50 p.m. Electrophysiological Study in Trigeminal Sensory-motor System. Y. KANG* (Osaka University, Osaka, Japan)

0015 3:40 p.m. Neuroanatomical Study in Trigeminal Sensory & Motor System. Y.C. BAE* (Kyungpook National University, Daegu, Korea (the Republic of))

0016 4:20 p.m. The Use of Animal Models in Trigeminal Pain Research. A. DAVIES* (Seoul National University, Seoul, Korea (the Republic of))

0017 5 p.m. Closing Remarks. S.B. OH* (Seoul National University, Seoul, Korea (the Republic of))

Seq#: 3 Tuesday, 21 June 2016, 1 p.m. – 4 p.m.
Satellite Symposium, 402

The 2016 Oral Epi-Forum Satellite Symposium

Chairpersons: L. Jamieson and W. Sohn

0018 1 p.m. Complex Systems Sciences; How These Approaches Might Work for Oral Cancer and HIV. B. HEATON* (Henry M. Goldman School of Dental Medicine, Restorative Sciences & Biomaterials, Boston University, Boston, Massachusetts, USA)

1:45 p.m. Discussion.

0019 2:30 p.m. Oral Cancer in India: Methodological Shortcomings and Possible Solutions. B. NICOLAU* (McGill University, Montreal, Quebec, Canada)

3:15 p.m. Discussion.

WEDNESDAY

Seq#: 4 Wednesday, 22 June 2016, 1:30 p.m. – 4 p.m. Symposium, 401

IADR Presidential Symposium: Recent Advances in Orofacial Pain Research

Chairpersons: M. Heft and B. Sessle

- 0020** 1:30 p.m. Introduction. B. SESSLE* (University of Toronto, Toronto, Ontario, Canada)
- 0021** 1:45 p.m. Peripheral Mechanisms in Nociceptive Pain: Inflammatory Mediators. K. HARGREAVES* (University of Texas Health Science Center at San Antonio, San Antonio, Texas, USA)
- 0022** 2:15 p.m. Central Mechanisms: Understanding the Transition to Persistent Pain. M. SHINODA (Nihon University School of Dentistry, Tokyo, Japan)
- 0023** 2:45 p.m. Orofacial Pain - Clinical Perspectives and Future Challenges. P. SVENSSON* (Aarhus University, Aarhus, Denmark)
- 0024** 3:15 p.m. Discussant. K. RAPHAEL* (New York University, New York, USA)
- 0025** 3:30 p.m. Discussant. C. PECK* (University of Sydney, Sydney, New South Wales, Australia)
- 0026** 3:45 p.m. Summary and Future Perspectives. B. SESSLE* (University of Toronto, Toronto, Ontario, Canada)

Seq#: 5 Wednesday, 22 June 2016, 2:30 p.m. – 4 p.m. Symposium, Hall E1

A Sociological/Anthropological Perspective on Oral Health Inequalities

Chairpersons: B. Gibson, R. Harris and L. Jamieson

- 0027** 2:30 p.m. The Mouth as a Site of Structural Inequalities: The Relevance of Power to Dental Encounters. B. GIBSON* (University of Sheffield, England, UK)
- 0028** 2:50 p.m. The Mouth as a Site of Structural Inequalities: The Experience of Aboriginal Australians. L. SLACK-SMITH* (School of Dentistry M512, University of Western Australia, Crawley)
- 0029** 3:10 p.m. The Mouth as a Site of Structural Inequalities: An Example of Dental Service Provision. R. HARRIS* (University of Liverpool, Cheshire, United Kingdom)
- 0030** 3:30 p.m. The Mouth as a Site of Structural Inequalities: An Example From Dental School Curricula. L. FOSTER PAGE* (Department of Oral Rehabilitation, University of Otago, Dunedin, New Zealand)
- 3:50 p.m. Discussion.

Seq#: 6 Wednesday, 22 June 2016, 2:30 p.m. – 4 p.m. Symposium, Hall E5

Clinical Investigations in Implant Dentistry: A Rainbow of Opportunities

Chairperson: M. Dard

- 0031** 2:30 p.m. Clinical Investigations in Implant Dentistry: Landscape and Definitions. M. DARD* (Periodontology and Implant Dentistry, New York University, New York, USA)
- 0032** 2:45 p.m. Prospective Case Series and Systematic Reviews. R. LEESUNGBOK* (Biomaterials & Prosthodontics, Kyung Hee University, Seoul)

- 0033** 3 p.m. Retrospective Case Series. J. LEE* (Dental Hospital, Yonsei University, Seoul, Korea (the Republic of))
- 0034** 3:15 p.m. Randomized Controlled Trials. J.-H. LEE* (Dental Hospital, Seoul National University, Seoul, Korea (the Republic of))
- 0035** 3:30 p.m. Study Designs in Implant Dentistry: The Balance Point. D. FRENCH* (Faculty of Dentistry, University of British Columbia, Vancouver, British Columbia, Canada)
- 3:45 p.m. Discussion.

Seq#: 7 Wednesday, 22 June 2016, 2:30 p.m. – 4 p.m. Symposium, 307A

Digital Dentistry – New Dental Material and Standardized Experimental Protocol for CAD/CAM

Chairperson: S. Oh

- 0036** 2:30 p.m. Strategies for Characterizing Handling Properties of Dental Composites. D. SHIN* (BISCO, Inc., Schaumburg, Illinois, USA)
- 0037** 2:55 p.m. Dental Materials and CAD/CAM Systems. J. PARK* (School of Dentistry, UTHSCSA, San Antonio, Texas, USA)
- 0038** 3:20 p.m. Standardization of Assessing Dental CAD/CAM Devices. S. OH* (Dental Biomaterials, Wonkwang University, Iksan, Korea (the Republic of))
- 3:45 p.m. Discussion.

Seq#: 8 Wednesday, 22 June 2016, 2:30 p.m. – 4 p.m. Symposium, Hall E2

Immune Recognition and Dry Mouth Disease

Chairpersons: S. Cha and K. Park

- 0039** 2:30 p.m. Anti-M3R Autoantibody in Sjogren's Syndrome and its Implications. S. CHA* (Oral & Maxillofacial Diagnostic Sciences, University of Florida, Gainesville, Florida, USA)
- 0040** 2:50 p.m. The Significance and Implications of the Autoantibodies Focusing on Molecular Events. K. PARK* (School of Dentistry, Seoul National University, Seoul, Korea (the Democratic People's Republic of))
- 0041** 3:10 p.m. Ca²⁺ Signaling Defects in Acinar Cell Underlies Salivary Gland Dysfunction in Sjogren's Syndrome. I. AMBUDKAR* (NIDCR NIH, Bethesda, Maryland, USA)
- 0042** 3:30 p.m. New Criteria for Assessing Sjogren's Syndrome. C. SHIBOSKI* (Dept. of Orofacial Sciences, University of California - San Francisco, San Francisco, California, USA)
- 3:50 p.m. Discussion.

Seq#: 9 Wednesday, 22 June 2016, 2:30 p.m. – 4 p.m. Symposium, 402

Pulp-dentin Complex Formation in Development, Repair and Regeneration

Chairpersons: G. Huang and J. Park

- 0043** 2:30 p.m. Autophagy in Odontogenesis, Dental Pulp Repair and Regeneration. Z. CHEN* (School of Stomatology, Wuhan University, Wuhan, China)
- 0044** 2:55 p.m. Pulp Fibroblast is on the Cross Roads of Inflammation and Regeneration. I. ABOUT* (Aix-Marseille University, Faculté d'Odontologie, Marseille, France)

0045 3:20 p.m. Somatic Stem Cell Differentiation Using Biomimetic Extracellular Cues for Pulp Tissue Regeneration. A. GEORGE* (University of Illinois at Chicago, Chicago, Illinois, USA)
3:45 p.m. Discussion.

Seq#: 10 Wednesday, 22 June 2016, 2:30 p.m. – 4 p.m.
Symposium, 403

The Ortho-perio Connection: From Biology to the Clinic

Chairpersons: A. Kantarci and A. Stavropoulos

- 0046** 2:30 p.m. Orthodontics & Gingival Recessions: Biological Considerations. A. STAVROPOULOS* (Faculty of Odontology, Malmö University, Malmö, Sweden)
0047 2:50 p.m. Orthodontics & Gingival Recessions: Clinical Considerations. C. KATSAROS* (Dept. of Orthodontics and Dentofacial Orthopedics, University of Bern, Bern, Switzerland)
0048 3:10 p.m. Current Treatment Concepts for Gingival Recessions. A. SCULEAN* (Periodontology, University of Berne, Berne, Switzerland)
0049 3:30 p.m. Current Concepts for Accelerated Tooth Movement. A. KANTARCI* (Periodontology, The Forsyth Institute, Cambridge, Massachusetts, USA)
3:50 p.m. Discussion.

Seq#: 11 Wednesday, 22 June 2016, 2:30 p.m. – 4 p.m.
Oral Session, 308BC

Behavioral, Epidemiologic, and Health Services Research – Practitioner & Student Perceptions

Chairpersons: M. Balasubramanian and M. van der Zande

- E0050** 2:30 p.m. Association between Emotional Intelligence of Dental Students and Patient Satisfaction. K.H. LIN, M. MOHAN*, A. PAROLIA, A. PAU (School of Dentistry, International Medical University, Kuala Lumpur, Malaysia)
S0051 2:45 p.m. Dentists' Considerations About Using Digital Technologies and Their Job Resources. M. VAN DER ZANDE*, R. GORTER, I. AARTMAN, J. BRUERS, D. WISMEIJER (Social Dentistry & Behavioral Sciences/ Oral Implantology and Prosthetic Dentistry, Academic Center for Dentistry Amsterdam, University of Amsterdam/Vrije Universiteit Amsterdam, Amsterdam, Netherlands)
S0052 3 p.m. Malaysian Dentists' Perception of Patient Safety – A Qualitative Study. D. SIM*, B. CHEW, C. VINCENT, A. PAU (School of Dentistry, International Medical University, Kuala Lumpur, Malaysia)
SC0053 3:15 p.m. Occupational Stress and Burnout Among Hong Kong Dentists. H.B. CHOY*, M. WONG (Faculty of Dentistry, The University of Hong Kong, Hong Kong, SAR, Hong Kong)
0054 3:30 p.m. The Life Story Experience of Migrant Dentists in Australia. M. BALASUBRAMANIAN*, A.J. SPENCER, S. SHORT, K. WATKINS, S. CHRISOPOULOS, D. BRENNAN (Australian Research Centre for Population Oral Health, School of Dentistry, The University of Adelaide, Adelaide, South Australia, Australia)
3:45 p.m. Discussion.

Seq#: 12 Wednesday, 22 June 2016, 2:30 p.m. – 4 p.m.
Oral Session, 203

Cariology Research-Clinical and Epidemiological Studies – Cariology-Clinical Studies I

Chairperson: C. Chu

- 0055** 2:30 p.m. Identification of Caries Risk Determinants in Toddlers. C. UN LAM, K. LAY WAI, R. YEE, D. KOH, Y.S. LEE, M.F.-F. CHONG, K. KWEK, S.M. SAW, K. GODFREY, P. GLUCKMAN, Y.S. CHONG, C.K. CHNG, C.-Y. HSU* (Faculty of Dentistry, National University of Singapore, Singapore, Singapore)
S0056 2:45 p.m. SEAL Cambodia – Retention Rates of ART Sealants According to Provider Type. R. SRENG*, B. TURTON, P. CHEN, P. SEREY, C. DURWARD, D. MANTON (Faculty of Dentistry, International University, Phnom Penh, Cambodia)
3 p.m. Discussion.
C0057 3:15 p.m. Caries Arresting Effect Using Silver-diamine-fluoride With Different Concentration and Periodicity. C.H. CHU*, M. FUNG, D. DUANGTHIP, M. WONG, E. LO (Faculty of Dentistry, University of Hong Kong, Hong Kong, SAR, Hong Kong)
0058 3:30 p.m. Atraumatic Restorative Treatment as a Restorative Option for Molar-incisor Hypomineralization. S. LEAL*, J. GROSSI, A.P. RIBEIRO (Dentistry, University of Brasilia, Brasília, Brazil)
3:45 p.m. Discussion.

Seq#: 13 Wednesday, 22 June 2016, 2:30 p.m. – 4 p.m.
Oral Session, 101

Craniofacial Biology – Keynote Address; Craniofacial Biology I

Chairpersons: S. Kapila and S. Frazier-Bowers

- 0059** 2:30 p.m. Keynote Address: Integration of Signaling Pathways Regulating Tooth Organogenesis and Patterning. R. JIANG* (Cincinnati Children's Hospital Medical Center, Cincinnati, Ohio, USA)
0060 3 p.m. Estrogen and Relaxin Mediate Targeted Increase in TMJ Subchondral Bone Porosity That Requires MMP9 and MMP13. Y.N. PARK, J. XU, S. KAPILA* (Dept. of Orthodontics & Pediatric Dentistry, University of Michigan, Ann Arbor, USA)
E0061 3:15 p.m. Golgi I Regulates Protein Glycosylation in Mouse Palate Development. N. ZHANG, R. JIANG, Y. LAN* (Plastic Surgery, Cincinnati Children's Hospital Medical Center, Cincinnati, Ohio, USA)
0062 3:30 p.m. Wnt Signaling Regulates Location-specific Osteogenic Potential in Craniofacial Bone. J. LI*, X. YIN, B. SHI, J. HELMS (Oral&Maxillofacial Surgery, West China Hospital of Stomatology, Chengdu, Sichuan, China)
3:45 p.m. Discussion.

Seq#: 14 Wednesday, 22 June 2016, 2:30 p.m. – 4 p.m.
Oral Session, 317A

Dental Anesthesiology Research – Anesthesia, Pain Control & Sedation: Efficacy, Toxicity & Special Care Patients I

Chairpersons: F. Groppo and Z. Messieha

- 0063** 2:30 p.m. The Effect of Cyclodextrin Complexation on Bupivacaine Cytotoxicity in Human Fibroblasts. F. GROPPA*, L. FERREIRA, B. MUNIZ, E. DE PAULA, J. RANALI, M. VOLPATO (UNICAMP, Piracicaba, Brazil)

SC0064 2:45 p.m. Comparison of Anaesthetic Efficacy of Three Different Anaesthetic Agents by Using Buccal Infiltration Technique in Patients With Irreversible Pulpitis for Root Canal Treatment – A Prospective Randomized Double Blind Clinical Trial. A.K. SHANMUGAM*, S. RAMESH (conservative dentistry and endodontics, saveetha dental college, CHENNAI, India)

SC0065 3 p.m. Customised Intra Oral Anesthetic Technique for South Indian Races. J. RAJ*, S. RAMESH (Saveetha Dental College, CHENNAI, India)

C0066 3:15 p.m. Intravenous Acetamenophen (Ofirmev) may Improve Post-surgical Pain Score in Periodontal and Oral Surgery Under General Anesthesia. Z. MESSIEHA* (University of Illinois at Chicago, Glen Ellyn, Illinois, USA)

0067 3:30 p.m. The Nasal High-flow System Keeps Obese Individuals Oxygenated During Sedation. H. HIGUCHI*, M. ISHIMARUHAMA, Y. HONDA, A. YABUKI-KAWASE, S. MAEDA, T. MIYAWAKI (Dental Anesthesiology, Okayama University Hospital, Okayama, Japan)

C0068 3:45 p.m. 20 Year Study of Undiagnosed Pregnancy in Oral Surgery Patients. M. MILLES* (Oral & Maxillofacial Surgery, Rutgers School of Dental Medicine/University Hospital, Newark, New Jersey, USA)

Seq#: 15 Wednesday, 22 June 2016, 2:30 p.m. – 4 p.m.
Oral Session, 104

Dental Materials 4: Adhesion – Analysis of Adhesive-tooth Interactions

Chairpersons: B. Van Meerbeek and C. Yiu

0069 2:30 p.m. Competitive Interaction of 10-MDP and 4-MET With Hydroxyapatite. K. YOSHIIHARA, S. HAYAKAWA, N. NAGAOKA, Y. YOSHIDA, B. VAN MEERBEEK* (BIOMAT, Department of Oral Health Sciences, KU Leuven (University of Leuven), Leuven, Belgium)

C0070 2:45 p.m. Interaction of MDP-based Adhesive With Dentin Studied by Solid-state NMR. N. HIRAISHI*, F. HAYASHI, T. TAKAGAKI, M. OTSUKI, J. TAGAMI (Department of Oral Health Sciences, Cariology and Operative Dentistry, Tokyo Medical and Dental University, Tokyo, Japan)

0071 3 p.m. Interaction of 10-MDP or its Analog With Dentin. X.-Y. WANG*, F. TIAN, L. NIU, Q. HUANG, D. PASHLEY, F. TAY (Department of Cariology and Endodontology, Peking University, School and Hospital of Stomatology, Beijing, China)

S0072 3:15 p.m. Defy ageing: novel prime-and-rinse approach using MDP and MMPs inhibitors. J. XU*, X. JIN, Z. WU, B. FU (Department of Prosthodontics, the Hospital of Stomatology aff. to Zhejiang University School of Medicine, Hangzhou, China)

S0073 3:30 p.m. Influence of DCC Ethanol Wet-bonding on Radicular Dentin Bond Strength. A. COMBA*, L. SPONZILLI, V. ANGELONI, A. MAZZONI, L. BRESCHI, N. SCOTTI (University of Bologna, Pinerolo, Italy)

0074 3:45 p.m. Effect of Pretreatment With Quaternary Ammonium Silanes on Dentine Protease Activity. C. YIU*, U. DAOOD, M. BURROW, F. TAY (Prince Philip Dental Hospital, Paediatric Dentistry, Hong Kong, SAR, Hong Kong)

Seq#: 16 Wednesday, 22 June 2016, 2:30 p.m. – 4 p.m.
Oral Session, 105

Dental Materials 1: Ceramic-based Materials – Keynote
Address; Adhesion to Current Ceramics Materials: Challenges and Opportunities

Chairperson: Y. Zhang

0075 2:30 p.m. Keynote Address: Bonding Between Porcelain Veneer, Zirconia Framework, and Resin Cement: Challenges and Opportunities. Y. ZHANG* (New York University, New York, USA)

S0076 3 p.m. Do Zirconia Translucency Affect Bond Strength of Resin-based Cements? E. MANZON*, S. AMBROGIO, D. PASQUALINI, E. BERUTTI, L. ROLLO, N. SCOTTI (University of Turin, Turin, Italy)

SC0077 3:15 p.m. Microtensile Bond Strength of Universal Adhesive Systems to Lithium Disilicate. S.Y. SONG*, M.-S. KIM, S.-W. SHIN, J.Y. LEE (Department of Biomedical Science, Graduate School of Korea University, Seoul, Korea (the Republic of))

0078 3:30 p.m. Influence of Surface Treatment on the Bonding Strength of Zirconia. M. INOKOSHI*, F. ZHANG, J. DE MUNCK, K. VANMEENSEL, S. MINAKUCHI, J. VLEUGELS, I. NAERT, B. VAN MEERBEEK (Gerodontology and Oral Rehabilitation, Tokyo Medical and Dental University, Bunkyo, Tokyo, Japan)

SC0079 3:45 p.m. Acid Etching of Glass-Infiltrated Zirconia and Its Biological Response. V. VU*, G.-J. OH, K.-D. YUN, H.-P. LIM, T.T.P. NGUYEN, J.-W. KIM, S.-W. PARK (Department of Prosthodontics, School of Dentistry, Chonnam National University, Gwangju, Korea (the Republic of))

Seq#: 17 Wednesday, 22 June 2016, 2:30 p.m. – 4 p.m.
Oral Session, 102

Dental Materials 5: Biocompatibility and Biologic Effects of Materials – Bioactivity of Materials for Dental Treatment

Chairperson: M. Shie

S0080 2:30 p.m. Recombinant Human Cementum Protein I Controlled Releasing Nanoparticles in Electrospun Multiphasic Scaffold for Cementum Regeneration. X. CHEN*, Y. LIU, L. MIAO, S. REN, W. SUN (Nanjing University, Nanjing, China)

0081 2:45 p.m. The Degrading Ca–Si–Mg 3D-scaffolds to Improve Angiogenesis and Osteogenesis of Human Periodontal Ligament Cells. M.Y. SHIE*, C.-T. KAO, Y. CHEN (3D printing Medical Research Center, China Medical University, Taichung, Taiwan)

S0082 3 p.m. Ascorbic Acid-based Carbon Dots as Carrier of miR-2861 to Promote Differentiation of Osteoblast. W. BU*, X. XU, D. WANG, S. ZHU, K. ZHANG, H. SUN (Jilin University, Changchun, China)

SE0083 3:15 p.m. Graphene Induces Osteoblastic and not Odontoblast Differentiation of Dental Pulp Stem Cells. H. XIE*, M. CHUAKY, I. ISLAM, T. CAO, J.V. GOMES, A.H. CASTRO NETO, V. ROSA (Faculty of Dentistry, National University of Singapore, Singapore, Singapore)

SC0084 3:30 p.m. Artificial Floors Used Under MTA or Nano-filled Resin Modified Glass Ionomer for the Repair of Furcation Perforation. H. ALHADAINY*, A. ALADEMI, A. FARAG, N. AZMA (Endodontics, Tanta University, Tanta, Egypt)

Seq#: 18 Wednesday, 22 June 2016, 2:30 p.m. – 4 p.m.
Oral Session, 208

**Implantology Research – Implantology Research:
Prospective, Retrospective & Animal Studies**

Chairpersons: O. Ekren and S. Ivanovski

- 0085** 2:30 p.m. Osseointegration of Surface Modified Titanium and Titanium Zirconium Implants in an Osteoporotic Sheep Model. P. CHEN, C. VAQUETTE, S. SAIFZADEH, S. IVANOVSKI* (School of Dentistry, Menzies Health Institute Queensland, Gold Coast, Queensland, Australia)
- SC0086** 2:45 p.m. Clinical and Radiographic Changes at Short Implants in Atrophic Maxilla. S. QIAN*, H. LAI, J.-Y. SHI, L. ZHUANG (Department of Oral and Maxillo-facial Implantology, Shanghai Jiao Tong University, Shanghai, China)
- 0087** 3 p.m. Development of a Novel Rat Model of Polymicrobial Peri-implantitis. T. KOUTOUZIS, C. EASTMAN, S. CHUKKAPALLI, H. LARJAVA, K. LAKSHMYA* (Dept. of Periodontology, University of Florida, Gainesville, Florida, USA)
- SC0088** 3:15 p.m. Survival and Success Rate of Calcium Oxidised Nano-pore Surface Titanium Implants: A Retrospective Study in 2487 Implants With at Least One Year Followup. T. NESAPPAN*, D. VEERAIYAN (Prosthodontics, Saveetha Dental College and Hospitals, Chennai, Tamilnadu, India)
- C0089** 3:30 p.m. Clinical Success Evaluation of Short Dental Implants. E. BENLIDAYI, Y. UCAR*, U. TATLI, O. EKREN, H. KISA, B. EVLICE, U. BAKSI (Dis Hekimligi Fakultesi, Cukurova University, Balcali, Adana, Turkey)
- SC0090** 3:45 p.m. Evaluation of Biomarkers Between Restored Implants With Platform Switch or Traditional Abutment. A. KOCAK*, E. FIRATLI (Periodontology, Istanbul University, Istanbul, Turkey)

Seq#: 19 Wednesday, 22 June 2016, 2:30 p.m. – 4 p. m.
Oral Session, 307BC

**Microbiology / Immunology – Microbiology/Immunology-
Periodontal Pathogens**

Chairpersons: S. Dashper and A. Progulsk-Fox

- 0091** 2:30 p.m. The Core and Pan Genomes of *Porphyromonas gingivalis*. A. PROGULSKE-FOX*, R. CHASTAIN-GROSS, A. LAWRENCE, G. EHRLICH (Dept. of Oral Biology, University of Florida, Gainesville, Florida, USA)
- S0092** 2:45 p.m. Active Motifs and Function of PtkI in *Porphyromonas gingivalis*. C. LIU*, X. ZHOU, D. MILLER, R. LAMONT (West China Hospital of Stomatology, State Key Laboratory of Oral Diseases, Sichuan University, Chengdu, Sichuan, China)
- 0093** 3 p.m. *Filifactor Alocis* Arginine Deiminase is Involved With Virulence Modulation and Host Cell Citrullination. A. WILSON*, O. CHIOMA, A. GUPTA, Y. DOU, A. MISHRA, F. ROY, H. FLETCHER (MICROBIOLOGY AND MOLECULAR GENETICS, SCHOOL OF MEDICINE, LOMA LINDA, California, USA)
- 0094** 3:15 p.m. *Porphyromonas gingivalis* Surface Protein Variability is not Related to Phylogeny. S. DASHPER*, H. MITCHELL, C. SEERS, S. CHANDRY, E. REYNOLDS (Melbourne Dental School, University of Melbourne, Melbourne, Victoria, Australia)
- S0095** 3:30 p.m. Fluorescence- and 2D gel-based bismuth-proteome of *Porphyromonas gingivalis*. T. CHENG*, H. SUN, Y.-T. LAI, Y. YANG, L. JIN (Faculty of Dentistry, Periodontology, The University of Hong Kong)
- S0096** 3:45 p.m. HcpR, a Putative Regulator of the *Porphyromonas gingivalis* Nitrosative Stress Response. B. BELVIN*, J. LEWIS (Philips Institute for Oral Health Research, Virginia Commonwealth University, Richmond, Virginia, USA)

Seq#: 20

**0097–0101 has been moved to Thursday, 23 June 2016,
10:30 a.m. – 12:15 p.m. See page 83.**

Seq#: 21 Wednesday, 22 June 2016, 2:30 p.m. – 4 p.m.
Oral Session, Hall E3

Oral Health Research – Community Oral Health I

Chairperson: T. Singh

- 0102** 2:30 p.m. Oral Health-Related Quality of Life in 15-Year Olds in Suva, Fiji. A. RAM*, I. ROUSE, T. MANGUM, B. MANGUM (Fiji National University, Suva, Naitasiri, Fiji)
- E0103** 2:45 p.m. Structural Validity of the Korean Version of Child Oral Health Impact Profile Using Confirmatory Factor Analysis. H.-Y. KIM* (Health Policy and Management, Korea University, Seoul, Korea (the Republic of))
- S0104** 3 p.m. The Association Between Dental Caries And Diet Record In Adolescents. L. LINGWEI*, H.M. WONG, S. LING, C. MCGRATH (Paediatric Dentistry and Orthodontics, Faculty of Dentistry, The University of Hong Kong, Hong Kong, China)
- S0105** 3:15 p.m. Barriers and Facilitators of Primary Oral Health Care: A Field-Based Case Study. H. HARNAGEA*, Y. COUTURIER, L. LAMOTHE, E. EMAMI (School of Public Health, Université de Montréal, Montreal, Quebec, Canada)
- S0106** 3:30 p.m. Motivational Interviewing for Improving Adolescents' Oral Health Behaviors. L. WU*, X. GAO, E. LO, S.M. HO, C. MCGRATH, M. WONG (Faculty of Dentistry, Hong Kong University, Hong Kong, China)
- E0107** 3:45 p.m. Village Level Nutritional Assessment of Children (0-5 years) in Rural Punjab, India as a Precursor to Oral Health. T. SINGH*, D. EIKE, J. MILLER, S. THAPAR (Department of Family and Preventive Medicine, University of Utah, Salt Lake City, Utah, USA)

Seq#: 22 Wednesday, 22 June 2016, 2:30 p.m. – 4 p.m.
Oral Session, 317BC

Oral Medicine & Pathology – Oral Medicine & Pathology I

Chairperson: J. Zhang

- S0108** 2:30 p.m. Upregulated lncRNA-OGAI, a Target of miR-375, Contributes to Glycolysis of Oral Squamous Cell Carcinoma Through Increasing Levels of the Glucose Transporter Protein SCL2A1. Y. WANG*, Z. WANG, B. CHENG (Guanghua School of Stomatology, Sun Yat-sen University, Guangzhou, China)
- 0109** 2:45 p.m. Increased Expression Of p16 In Oral Leukoplakia The Last Decade. J. SUNDBERG*, J. ÖHMAN, S. DE LARA, A. KOVÁCS, M. WALLSTRÖM, G. KJELLER, M. LINDH, P. HORAL, B. HASSEUS (Dept of Oral medicine and Pathology, Institute of Odontology, Sahlgrenska Academy, University of Gothenburg, Gothenburg, Sweden)
- 3 p.m. Discussion.
- 0110** 3:15 p.m. Immunohistochemical Expression of CD44 and Aldehyde Dehydrogenase 1 in Oral Submucous Fibrosis and Oral Suamous Cell Carcinoma. K. SOE* (Department of Oral Medicine, University of Dental Medicine, Mandalay, Mynamar, Myanmar)

0137 8:20 a.m. The Microbiome Profiling and Gene Expression and Diagnostics. E. ZAURA* (Academic Centre for Dentistry Amsterdam (ACTA), Amsterdam, Netherlands)

University of California - San Francisco, San Francisco, California, USA)

C0111 3:30 p.m. MiR-34a Inhibits Tumor Cell Growth and Promotes Senescence by Targeting Multiple Cell Proliferation-related Genes in HNSCC. Y. WANG, J. CHEN, Y. SUN, F. JIANG, Y. PAN, J.-L. ZHANG* (The State Key Laboratory Breeding Base of Basic Science of Stomatology (Hubei_MOST) & Key Laboratory

0120 3:15 p.m. Joint Treatment of Non-Carious Cervical Lesions and Gingival Recessions (RCT). A. HORVATH*, Z. PAPP, Z. ERDŐS, A. NEVELITS, I. GERA (Department of Periodontology, Semmelweis University, Budapest, Hungary)
SC0121 3:30 p.m. Comparison of PRF With CTG Using CAF

0151 8:25 a.m. A Pitx2-Sox2-Lef-1 Network Regulates Incisor Stem Cell Renewal. B. AMENDT* (University of Iowa, Iowa City, Iowa, USA)

0152 8:50 a.m. Putting a Notch Into Tooth Regeneration. A. JHEON* (UCSF, San Francisco, California, USA)
9:15 a.m. Discussion.

Seq# 34 Thursday, 23 June 2016, 8 a.m. – 9:30 a.m.
Symposium, Hall E2

What is Translational Multi-disciplinary Research?

Chairperson: J. Meurman

0153 8 a.m. Between Medicine and Dentistry. J. MEURMAN* (University of Helsinki, Helsinki, Finland)

0154 8:20 a.m. How Cross Disciplinary Research has Increased Our Understanding of Oral Mucosal Diseases. S. CHALLACOMBE* (GKT Dental Institute, King's College London, UK)

0155 8:40 a.m. Development of Cytokine Therapy for Periodontal Tissue Regeneration: From Basic to Clinical Research. H. KURIHARA* (Faculty of Dentistry, Hiroshima University, Japan)

0156 9 a.m. Mixed Methods - Combining Both Quantitative and Qualitative Research Approaches Within the Same Study. J. FEINE* (Faculty of Dentistry, McGill University, Montreal, Quebec, Canada)
9:20 a.m. Discussion.

Seq# 35 Thursday, 23 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 308BC

Behavioral, Epidemiologic, and Health Services Research
– Keynote Address; Legacy of Professor Aubrey Sheiham

Chairperson: M. Gussy

0157 8 a.m. Keynote Address: Academic Legacy of Aubrey Sheiham and Future Directions in Dental Research. G. TSAKOS* (University College London, London, United Kingdom)

S0158 8:30 a.m. Upstream Downstream Prevention Activities in a Malaysian Residential Care Home. Y. YOW*, J.Y. HO, B.S.H. LIM, S.-W. LEE, S. RAJ KUMAR, C.M.J. GOH (Dentistry, International Medical University, Bukit Jalil, Wilayah Persekutuan Kuala Lumpur, Malaysia)

0159 8:45 a.m. Trends in Self-reported Oral Health of U.S. Adults: NHANES 1999-2012. K.Y. LI, C. OKUNSERI, C. MCGRATH, M. WONG* (Faculty of Dentistry, University of Hong Kong, Hong Kong, SAR, Hong Kong)

S0160 9 a.m. The Use of Decision Analytic Models in Oral Health Interventions. R. PALACIO*, C. VERNAZZA, J. STEELE, J. SHEN, L. VALE (School of Dental Sciences, Newcastle University, Newcastle Upon Tyne, Tyne and Wear, United Kingdom)

0161 9:15 a.m. Engaging Rural Communities in Oral Health: Participatory Methods for Rural Health Care Planning. M. GUSSY*, J. FARMER, S. LARKINS, A. KENNY, V. DIXON-SWIFT (Department of Dentistry and Oral Health, La Trobe University, Bendigo, Victoria, Australia)

Seq# 36 Thursday, 23 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 203

Cariology Research-Demineralization/Remineralization –
Cariology Research-Demineralization/Remineralization I

Chairpersons: J. Creeth and F. Lippert

0162 8 a.m. Development of a Plaque Fluid Based pH Cycling Model. F. LIPPERT*, A. HARA, R. LYNCH (Oral Health Research Institute, Indiana University, Indianapolis, USA)

0163 8:15 a.m. *In Vitro* Remineralization of Human Enamel With Amelogenin-derived Biomineralizing Peptide shADP5. S. DOGAN*, H. FONG, D. YUCESAY, C. GRESSWELL, T. COUSIN, M. SARIKAYA (Restorative Dentistry, University of Washington, Seattle, Washington, USA)

0164 8:30 a.m. Effect of Zinc on Fluoride-induced Remineralisation *in Situ*. R. LYNCH*, R. KARWAL, M.L. BOSMA, F. LIPPERT, D. ZERO (GlaxoSmithKline, Surrey, United Kingdom)

0165 8:45 a.m. Fluoride-Induced Enamel Remineralisation and Demineralisation Resistance *in-situ*: Effects of Zinc. J. CREETH*, D. ZERO, A. HARA, R. KARWAL (Medical Affairs, GlaxoSmithKline Consumer Healthcare, Weybridge-Surrey, United Kingdom)

S0166 9 a.m. Effect of Strontium and Fluoride Within a Plaque-Fluid-Representative pH-Cycling Model. E. MILES*, S. VALAPPIL, R. LYNCH, S. HIGHAM (Health Services Research, University of Liverpool, Liverpool, Merseyside, United Kingdom)
9:15 a.m. Discussion.

Seq# 37 Thursday, 23 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 208

Cariology Research-Microbiological Studies/Biofilm –
Cariology Research-Microbiological Studies/Biofilm I

Chairpersons: H. Koo and J. Xiao

0167 8 a.m. Oral Microbiome and Functional Gene in Childhood Caries. H. CHEN*, Y. WANG, W. JIANG, X. CHEN, N. QIN (Department of Conservative Dentistry and Periodontics, Affiliated Hospital of Stomatology, College of Medicine, Zhejiang University, Hangzhou, China)

0168 8:15 a.m. Cross-kingdom Cariogenic Biofilms via Streptococcal GtfB-*Candida* Interactions. G. HWANG, Y. LIU, L. GAO, H. KOO* (Orthodontics, School of Dental Medicine, University of Pennsylvania, Philadelphia, Pennsylvania, USA)

0169 8:30 a.m. *Candida albicans* Carriage in ECC Children and the Family Relatedness. J. XIAO*, L. LI, E. RUSTCHENKO, H. WAKABAYASHI, C. FENG, H. KOO, R. QUIVEY, H. MALMSTROM, Y.-F. REN (Eastman Institute for Oral Health, University of Rochester, Rochester, New York, USA)

S0170 8:45 a.m. Inoculums From Different Intraoral Sites Influence *In Vitro* Biofilm Community Structure. C. FERNÁNDEZ*, T. LUO, A. CANNON, M. ASPIRAS, M. DODDS, C. GONZALEZ-CABEZAS, A. RICKARD (Epidemiology, University of Michigan, Ann Arbor, USA)

S0171 9 a.m. Cariogenicity of Sucrose Substitutes in Microtiter and Artificial Mouth Models. J. ZHAN*, E. LO, C.H. CHU (Faculty of Dentistry, University of Hong Kong, Hong Kong, SAR, Hong Kong)

0172 9:15 a.m. Carbonated Beverages and Biofilm Cariogenicity in an Experimental Caries Model. V. PAILAHUAL, N. DÍAZ-GARRIDO, R. GIACAMAN* (Cariology Unit, Department of Oral Rehabilitation, University of Talca, Talca, Chile)

Seq#: 38 Thursday, 23 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 102

Dental Materials 5: Biocompatibility and Biologic Effects of Materials – Biofunctionalization & Biological Effects of Dental Material Surfaces

Chairperson: F. Tamimi

S0173 8 a.m. Proteomic Evaluation of Salivary Acquired Pellicle on Restorative Material Surfaces. C.X. WEI*, M. BURROW, M. BOTELHO, W.K. LEUNG (The University of Hong Kong, Hong Kong, SAR, Hong Kong)

E0174 8:15 a.m. Impact of Plasma Functionalized Graphene on Adhesion and Proliferation of Mesenchymal Stem Cells. F. DECROIX, N. DUBEY, R. BENTINI, J. MORIN, J.C. VIANA GOMES, A.H. CASTRO NETO, V. ROSA, H. HANDRAL* (Faculty of Dentistry - Oral Sciences, National University of Singapore, Singapore, Singapore)

S0175 8:30 a.m. Mussel-based Silica Nanoparticle Coatings for Osteoconductive/Osteoinductive Functionalization of Dental Implants. Y.K. JO*, C.S. KIM, B.-H. CHOI, H.J. CHA (Department of Chemical Engineering, POSTECH, Pohang, Korea (the Republic of))

S0176 8:45 a.m. A Functional Blood-Resistant Bone Graft Binder Inspired by Mussel Adhesion. H.J. KIM*, B.-H. CHOI, S.H. JUN, H.J. CHA (Chemical engineering, POSTECH, Pohang, Korea (the Republic of))

SE0177 9 a.m. Immobilization of BMP-2 on Titanium Mesh using Recombinant Mussel Adhesive Protein for GBR. C. ZHOU*, Y.K. JO, B.-H. CHOI, J.S. AHN, X. XU, S.H. JUN, H.J. CHA (Dental Implantology, School of Stomatology, Shandong University, Jinan, Shandong, China)

9:15 a.m. Discussion.

Seq#: 39 Thursday, 23 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 105

Dental Materials 2: Polymer-based Materials – Dental Materials: Polymer-based Materials I

Chairpersons: J. Ferracane and J. Stansbury

0178 8 a.m. Degree of Conversion of Novel Methacrylamide Monomers - Photoinitiator System Effects. C. PFEIFER, A. DOBSON, V. HUYNH, W. MBIYA, J. FERRACANE* (Dept. of Restorative Dentistry, Oregon Health & Science University, Portland, Oregon, USA)

C0179 8:15 a.m. Control of Polymer Network Structure via Reactive Prepolymer Additives. J. STANSBURY*, L. FU, S. LEWIS, M. BARROS (Craniofacial Biology, University of Colorado, Aurora, Colorado, USA)

S0180 8:30 a.m. Photoinitiator Type, Concentration and Irradiation Parameters Impact on Composite Conversion. L. RANDOLPH*, W. PALIN, G. LELOUP, J. LEPRINCE (Louvain Drug Research Institute / ADDB, Université Catholique de Louvain, Brussels, Belgium)

0181 8:45 a.m. Experimental Sealers Containing Metal Methacrylates: Physical, Chemical and Biological Properties. R. LUND*, T. ROSSATO, J. GALLAS, W. DA ROSA, S. PERALTA, A. DA SILVA, E. PIVA (Pelotas Dental School, Federal University of Pelotas, Pelotas, Rio Grande do Sul, Brazil)

0182 9 a.m. Synthesis and Properties Evaluation of Less Degradable Resins for Dental Composites. H. LIU, T. WANG*, L. CHOW, P. BAKER, M. CHIANG, J. MITCHELL, H. LIN (College of Dentistry, Howard University, Washington, District of Columbia, USA)

9:15 a.m. Discussion.

Seq#: 40 Thursday, 23 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 104

Dental Materials 4: Adhesion – Keynote Address; Adhesives in Operative Dentistry

Chairpersons: H. Chew and A. Fok

0183 8 a.m. Keynote Address: Quality Report of Clinical Trials About Adhesives in Cervical Lesions. A. REIS* (State University of Ponta Grossa, Ponta Grossa, Brazil)

0184 8:30 a.m. Detection of Debonding in Composite Restorations Using Optical Coherence Tomography. H. CHEW*, A. MUHARRIRI, Y. LI, A. FOK (Department of Restorative Dentistry, University of Malaya, Kuala Lumpur, Kuala Lumpur, Malaysia)

0185 8:45 a.m. Development of Dentin-Composite Bond Strength During Curing. J. GUO, B. HOLMES, Y.C. HEO, J. CHEN, A. FOK* (School of Dentistry, University of Minnesota, Minneapolis, Minnesota, USA)

SC0186 9 a.m. Effect of Different Resin/Laser/Adhesive Combinations on Shear Bond Strength. Z. SALMAN, D. TUNCER, Ç. ÇELİK, N. ARHUN, Z.C. ÖZDUMAN* (Department of Restorative Dentistry, Baskent University Faculty of Dentistry, Ankara, Turkey)

S0187 9:15 a.m. Comparison Of Microtensile Bond Strength of Four Different Multimode Adhesives to the Caries-Affected Dentin After Er:YAG Laser Treatment. A. SARIALIOGLU GUNGOR*, N. DONMEZ, B. KARABULUT, S. HERGUNER SISO (RESTORATIVE DENTISTRY, BEZMIALEM VAKIF UNIVERSITY, ISTANBUL, Turkey)

Seq#: 41 Thursday, 23 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 317A

Education Research – Developing Clinical Skills: Learning Outcomes & Simulation

Chairpersons: M. Ando and M. Cox

0188 8 a.m. Learning Outcomes for First-year Predoctoral-dental Students on ICDAS Characterization. M. ANDO*, A. SOTO-ROJAS (Cariology, Operative Dentistry and Dental Public Health, Indiana University, Indianapolis, USA)

E0189 8:15 a.m. Pre-clinical Competency in Scaling/Root Planing: A Comparison of Outcomes Between Dental and Dental Hygiene Students. D. HOFER*, S. GARTENMANN, B. SENER, D. WIEDEMEIER, T. ATTIN, P. SCHMIDLIN (Clinic of Preventive Dentistry, Periodontology and Cariology, Center of Dental Medicine, University of Zurich, Zurich, Switzerland)

SE0190 8:30 a.m. Development and Face Validation of a Minimally Invasive Caries Removal Simulator With Haptic Feedback. A. DWISAPTARINI*, S. SUEBNUKARN, P. RHENMORA (Faculty of Dentistry, Trisakti University, Jakarta, Indonesia)

0191 8:45 a.m. Integrating Haptic Simulation Learning Within an Existing Dental Curriculum: Case study. A. POLSTER*, M. BURROW, M. HOPCRAFT (Melbourne Dental School, The University Melbourne, Carlton, Victoria, Australia)

E0192 9 a.m. Performance of Students' Clinical Skills Using a Haptic Dental Simulator. M. COX*, B. QUINN, S. RIA, J. SAN DIEGO, M. WOOLFORD (Dental Institute, King's College London, London, United Kingdom)

9:15 a.m. Discussion.

Seq#: 42 Thursday, 23 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 307BC

**Microbiology / Immunology – Microbiology/Immunology-
Candida albicans Infections**

Chairpersons: L. Jablonowski and Q. Qi

SE0193 8 a.m. Interactions in Oral Biofilm Between *Lactobacillus* GG and *Candida Albicans*. Q. JIANG*, I. STAMATOVA, V. KAINULAINEN, R. KORPELA, J. MEURMAN (Department of oral and maxillofacial diseases, Clinicum, Faculty of Medicine, University of Helsinki, Helsinki, Finland)

S0194 8:15 a.m. Atmospheric Pressure Plasma Against *Candida albicans* Biofilms in Root Canals. L. JABLONOWSKI*, A. KERLIKOWSKI, R. MATTHES, C. PINK, H. STEFFEN, R. SCHLÜTER, K.-D. WELTMANN, T. VON WOEDTKE, T. KOCHER (Department of Restorative Dentistry, Periodontology, Endodontology, Preventive Dentistry and Pedodontics, University Medicine Greifswald, Greifswald, Germany)

SC0195 8:30 a.m. Identification of Carotid-Atherosclerosis in Rats Subcutaneously Injected by *Candida albicans*. N. PUTRI*, N. HIKMAH, I. SUSILAWATI, E. SULISTYANI (Dentistry, University of Jember, Jember, Indonesia)

S0196 8:45 a.m. Small Molecule Compounds Synergize Amphotericin B Against *Candida albicans* Biofilms. Q. QI* (Shandong University, Jinan, Shandong, China)

C0197 9 a.m. Protective Effect of Alcohol Dehydrogenase on Oral *Candida* Infection. W. LI*, X. ZHANG, Y. HU (Oral Biology, Guanghua School of Stomatology, Sun Yat-sen University, Guangzhou, Guangdong, China)
9:15 a.m. Discussion.

Seq#: 43 Thursday, 23 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 308A

Nutrition – Keynote Address; Nutrition I

Chairperson: A. Walls

C0198 8 a.m. Keynote Address: What is the Role of Diet in Caries Prevention?. A. WALLS* (Edinburgh Dental Institute, Edinburgh, United Kingdom)
8:30 a.m. Discussion.

S0199 8:45 a.m. Eating Related QoL of Orthodontic Patients: New Outcome Measure Development. A. ABDULRAHMAN*, P. MOYNIHAN, S. ROLLAND, N. ROUSSEAU (Newcastle University/Dental science, Newcastle Upon Tyne, United Kingdom)

S0200 9 a.m. Folic Acid Administration and DNMT3 Dysregulation in Oral Cancers. J. SILVAROLI*, S. SANDHU, K. KINGSLEY (School of Dental Medicine, University of Nevada, Las Vegas, Las Vegas, Nevada, USA)
9:15 a.m. Discussion.

Seq#: 44 Thursday, 23 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 317BC

Oral Health Research – Oral Pathology & Treatment I

Chairperson: R. D'Souza

SC0201 8 a.m. Comparison of Rate of Maxillary Canine Retraction With Bodily Mechanics Using Two Different Prescriptions- Roth and Vari-simpler – a Clinical Study. S. SELVAM, D.R. GOPALAN, S. KISHORE* (Orthodontics, Saveetha Dental College and Hospitals, Chennai, Tamil Nadu, India)

SC0202 8:15 a.m. Tooth Wear and Associated Risk Factors: A Matched Case-Control Study. C. ATALAY*, H. OZGUNALTAY (Restorative Dentistry, Hacettepe University, Ankara, Turkey)

8:30 a.m. Discussion.

C0203 8:45 a.m. Dentine Hypersensitivity and Associated Factors: A Nigerian Cross-sectional Study. K. SAVAGE, A. OGinni*, O. UTI, O. ODERINU, O. DOSUMU (Department of Restorative Dentistry, Faculty of Dentistry, Obafemi Awolowo University, Ile-Ife Osun, Nigeria)

E0204 9 a.m. Rotation of Tooth Observed on Non-orthodontic Normals After 20 Years. E. MOTEGI*, S. OKANO, M. NOMURA (Dept. of Orthodontics, Tokyo Dental College, Chiba-shi, Chiba-ken, Japan)
9:15 a.m. Discussion.

Seq#: 45 Thursday, 23 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 318B

Oral & Maxillofacial Surgery – Oral & Maxillofacial Surgery I

Chairperson: S. Balaji

SC0205 8 a.m. Comparative Efficacies of a 3D-Printed PCL/PLGA/ β -TCP Membrane and a Titanium Membrane for Guided Bone Regeneration in Beagle Dogs. S. KIM*, S. OH, S.-H. HA, Y.-J. YUN, S.-H. LEE, J.-B. HUH (College of Dentistry, Busan National University, Yangsan-si, Korea (the Republic of))

C0206 8:15 a.m. Comparison of Temporalis Pull Through and Fascia Lata Augmentation in Facial Reanimation. S. BALAJI* (Balaji Dental and Craniofacial Hospital, Chennai, India)
8:30 a.m. Discussion.

E0207 8:45 a.m. A Fast-Degrading Thio-Acrylate Based Hydrogel for Cranial Regeneration. A. EMMAKAH, T. GREENE, J. BRAGG, C.-C. LIN, T.G. CHU* (Biomedical and Applied Sciences, Indiana University, Indianapolis, USA)
9 a.m. Discussion.

Seq#: 46 Thursday, 23 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 101

**Periodontal Research-Diagnosis/Epidemiology – Systemic
Conditions & Periodontal Disease Epidemiology I**

Chairpersons: R. Demmer and P. Pussinen

0208 8 a.m. Endotoxemia Links Periodontitis to Coronary Artery Disease. P. PUSSINEN*, J. LILJESTRAND, G. PERSSON, K. BUHLIN, M. NIEMINEN, J. SINISALO, P. MÄNTYLÄ, S. PAJU (Oral and Maxillofacial Diseases, University of Helsinki, Helsinki, Finland)

0209 8:15 a.m. The Subgingival Microbiome, Systemic Inflammation and Insulin Resistance. R. DEMMER*, A. BRESKIN, M. ROSENBAUM, A. ZUK, C. LEDUC, R. LEIBEL, B. PASTER, M. DESVARIEUX, D. JACOBS, P. PAPAPANOU (Columbia University, New York, New York, USA)

0210 8:30 a.m. Overweight and Obesity Impact on Periodontitis: A Brazilian Birth Cohort. G. NASCIMENTO, M. PERES*, M. MITTINTY, K. PERES, L. DO, D. GIGANTE, B. HORTA, M. CORREA, F. DEMARCO (School of Dentistry, Australian Research Centre for Population Oral Health, The University of Adelaide, Adelaide, South Australia, Australia)

SE0211 8:45 a.m. Interaction and Mediation of Periodontitis and Systemic Inflammation Regarding Mortality. C. PINK*, B. HOLTFRETER, M. DÖRR, H. VÖLZKE, P. MEISEL, L. JABLONOWSKI, A. GROTEVENDT, R. BIFFAR, T. KOCHER (Department of Restorative Dentistry, Periodontology, Endodontology, Pedodontics and Primary Prevention, University Medicine Greifswald, Greifswald, Germany)

C0212 9 a.m. Body Mass Index and Subgingival Microbiota in Periodontitis-Free Individuals. A. KHOCHT* (Periodontics, Loma Linda University, Redlands, California, USA)

C0213 9:15 a.m. Gingivitis During the First/Second Trimesters of Pregnancy. M. REDDY*, N. GEURS, M. GEISINGER, M. KAUR, J. BIGGIO, M. JEFFCOAT, N. TANNA, S. PARRY, M. DOYLE, J. GRENDER, R. GERLACH (Department of Periodontology; SDB 412, University of Alabama at Birmingham, Birmingham, Alabama, USA)

Seq#: 47 Thursday, 23 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, Hall E4

Periodontal Research-Therapy – Keynote Address; New Frontiers in Periodontal Regeneration

Chairpersons: P. Bartold and C. Park

0214 8 a.m. Keynote Address: Induced Pluripotent Stem Cells: A New Frontier for Regenerative Periodontal Medicine. P.M. BARTOLD* (University of Adelaide, Adelaide, South Australia, Australia)

SE0215 8:30 a.m. FOXO1 Organizes Keratinocyte Activity to Regulate Angiogenesis During Wound Healing. H. JEON*, Q. YU, E. SPENCER, O. STEPANCHENKO, D. GRAVES (University of Pennsylvania, Philadelphia, Pennsylvania, USA)

0216 8:45 a.m. Spatiotemporally Controllable Platform Design for Periodontal Ligament (PDL) Orientation in 3-D Printing Technology. C.H. PARK*, K.-H. KIM, Y.-M. LEE, W. GIANNOBILE, Y.-J. SEOL (Nanobiomedical Science, Dankook University, Cheonan, SC0217 9 a.m. PDGF-Coated Functionally Graded Membranes for Promoting Periodontal Regeneration *in vivo*. Y.-C. CHANG*, M.-H. HO, H.-C. CHANG, N. LEE, C. YANG, P.-C. CHANG, M.-H. CHEN (National Taiwan University, Taipei, Taiwan)

SE0218 9:15 a.m. Simvastatin Application for Collagen of Alveolar Bone Periodontitis in Rat. D. HERAWATI*, N. RAHAYU (Periodontology, Faculty of Dentistry, Universitas Gadjah Mada, Sleman, Indonesia)

Seq#: 48 Thursday, 23 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 402

Prosthodontics Research – Frechette Award

Chairpersons: D. Bartlett and S. Rosenstiel

C0219 8 a.m. Static Magnetic Fields Promote Osteoblastic/Cementoblastic Differentiation in Periodontium Cells. S.-J. AHN*, E.-C. KIM, R. LEESUNGBOK, S.-W. LEE, Y.-H. PARK (Biomaterials & Prosthodontics, Kyung Hee University Hospital at Gangdong, School of Dentistry, Kyung Hee University, Seoul, Korea (the Republic of))

S0220 8:15 a.m. Chondrocyte Burst Promotes Space for Mineral Expansion During Initial Mineralization. E. HARA*, M. OKADA, N. NAGAOKA, T. HATTORI, T. KUBOKI, T. MATSUMOTO (Department of Biomaterials, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama-shi, Okayama-ken, Japan)

S0221 8:30 a.m. *Ex/In Vivo* BMP-2 Based Gene Therapy Increases Bone Formation. L. XU* (Department of Prosthodontics, Ninth People's Hospital affiliated to Shanghai Jiao Tong University, Shanghai, China)

C0222 8:45 a.m. Synthesis of Novel Diopside Glass-Ceramics for Restorative Dentistry. J. ALMUHAMADI*, N. KARPUKHINA, M. CATTELL (Centre for adult Oral Health, Barts and the London, School of Dentistry, London, United Kingdom)

C0223 9 a.m. Translucency of Monolithic Hybrid Cubic/Tetragonal Zirconia Crowns: A Comparative Study. C. PARISI*, V. WANDSCHER, A. CASAMENTI, C. MONACO, P. BALDISSARA (Prosthodontics, University of Bologna, Bologna, Bo, Italy)

0224 9:15 a.m. Reliable Zirconia Bone-level Implants Produced by Ceramic Injection-molding. B. SPIES*, M. MAASS, T. KIEMLE, C. BERTHOLD, K. VACH, R. KOHAL (Department of Prosthetic Dentistry, Medical Center – University of Freiburg, Center for Dental Medicine, Freiburg, Germany)

Seq#: 49 Thursday, 23 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 318C

Pulp Biology & Regeneration Research – Dental Pulp Stem Cell Biology, Neurodifferentiation & Angiogenesis

Chairperson: L. Ye

0225 8 a.m. Ezh2 inhibits Dental Pulp Cells Differentiation Through Wnt/beta-catenin Signaling. B. LI, T. HUI, F. WU, L. YE* (department of endodontics, State Key Laboratory of Oral Diseases, West China School of Stomatology, Sichuan University, Chengdu, Sichuan, China)

S0226 8:15 a.m. Immobilized Jagged1 Induces Odontogenic Differentiation of Human Dental Pulp Cells. T. THONGNGAM*, P. NATTASIT, J. MANOKAWINCHOKE, P. PAVASANT, T. OSATHANON (Faculty of Dentistry, Chulalongkorn University, Pathumwan, Bangkok, Thailand)

8:30 a.m. Discussion.
S0227 8:45 a.m. Spatial-temporal Signaling Contributes to Tooth Formation Through TGF-beta Signaling Pathway. X. HE*, R. XU, K. SUN, X. ZHOU, L. ZHENG (west china school of stomatology, ChengDu, SiChuan, China)

0228 9 a.m. Klf5 Promoted Odontoblast Differentiation Via Regulation of Dspp. Z. CHEN*, S. DENG, H. CHEN, S. CHEN (Department of Conservative Dentistry, Zhejiang University, Hangzhou, Zhejiang, China)
9:15 a.m. Discussion.

Seq#: 50 Thursday, 23 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 327B

Stem Cell Biology – Stem Cells & Signaling

Chairperson: M. Kang

S0229 8 a.m. Endothelin-1 Enhances Osteogenesis Differentiation of Bone Marrow Stromal Cells. L. HU*, L. XU, H. PAN (Department of Oral & Maxillofacial-Head & Neck Oncology, Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, Shanghai, China)

0230 8:15 a.m. Force Loading of Periodontal Ligament Stem Cells Promote M1 Macrophage Polarization and Migration During Orthodontic Tooth Movement. D. HE*, X. KOU, Y. ZHOU (Department of Orthodontics, Peking University School of Stomatology, Beijing, China)

0231 8:30 a.m. Epigenetically Coordination by Suv39h1 and Lhx8 Interaction in Tooth Development. C. ZHOU*, W. WANG, L. XIANG, J. MAO, J. LING (Sun Yat-sen University, Guanghua School of Stomatology, Hospital of Stomatology, Guangdong Provincial Key Laboratory of Stomatology, Guangzhou, Guangdong, China)

E0232 8:45 a.m. Knockdown YAP Inhibits the Proliferation of Human Periodontal Ligament Stem Cells Through PI3K/AKT Pathway. Y. WEN*, W. GU, Y. JI, Y. ZHANG, X. XU (School of Stomatology, Shandong University, Jinan, China)

E0233 9 a.m. *In vivo* Identification and Regulating Niche of Periodontal Ligament Stem Cells. H. ZHAO*, J. FENG, Y. CHAI (Baylor College of Dentistry, Texas A&M University, Dallas, Texas, USA)

9:15 a.m. Discussion.

Seq# 51 Thursday, 23 June 2016, 9:45 a.m. – 10:30 a.m.
Distinguished Lecture Series, Hall D2

Synaptic Brain Dysfunction

0234 9:45 a.m. Synaptic Brain Dysfunction. E. KIM* (Center for Synaptic Brain Dysfunctions, Institute for Basic Science and Department of Biological Sciences, Korea Advanced Institute of Science and Technology (KAIST), Daejeon, Korea (the Republic of))

Seq# 52 Thursday, 23 June 2016, 10:45 a.m. – 12:15 p.m.
Hands-on Workshop, 307A

Abstract Quality: Getting Better

Chairpersons: A. Bullock and S. Grayden

0235 10:45 a.m. A Reviewer's Experience. S. GRAYDEN* (Communications-Administration, University of Michigan, Ann Arbor, USA)

0236 11:10 a.m. Quantitative Abstracts: Tips and Tricks. L. DEMPSTER* (University of Toronto, Toronto, Ontario, Canada)

0237 11:35 a.m. Qualitative Abstracts: Tips and Tricks. A. BULLOCK* (School of Social Sciences, Cardiff University, Cardiff, United Kingdom)

12 p.m. Discussion.

Seq# 53 Thursday, 23 June 2016, 10:45 a.m. – 12:15 p.m.
Symposium, 327A

MRONJ: Incidence, Pathophysiology, Diagnosis, and Treatment

Chairpersons: X. Li, W. Park and D. Saxena

0238 10:45 a.m. Antiresorptives and Patient Care in Korea: Actions, Indications, Side Effects. W. PARK* (Department of Advanced General Dentistry, Yonsei University, Seoul, Korea (the Republic of))

0239 11:05 a.m. Zoledronic Acid, Innate Immune Response and Bone Destruction in MRONJ. X. LI* (Basic Science, New York University College of Dentistry, New York, USA)

0240 11:25 a.m. Innate Immunity as a Contributing Factor in MRONJ. S. SHI* (Penn School of Dental Medicine, Philadelphia, Pennsylvania, USA)

0241 11:45 a.m. Crosstalk Between Oral Microbiome and Host Immune Response in MRONJ. D. SAXENA* (Basic Science, New York University, New York, USA)

12:05 p.m. Discussion.

Seq# 54 Thursday, 23 June 2016, 10:45 a.m. – 12:15 p.m.
Symposium, 403

Reducing Oral Health Inequalities in Elders Through Promoting Self-Care Practice

Chairpersons: E. Lo and B. Wu

0242 10:45 a.m. Integrated Oral Health and NCD Prevention and Control - WHO Perspective. H. OGAWA* (World Health Organization, Geneva 27, Switzerland)

0243 11:10 a.m. Oral Health Promotion and Health Policy in an Ageing Society. K. FUKAI* (Fukai Institute of Health Science, Saitama, Japan)

0244 11:35 a.m. Reducing Oral Health Inequalities Among Older Adults. L. SCHOU* (School of Dentistry, University of Copenhagen, Denmark)

12 p.m. Discussion.

Seq# 55 Thursday, 23 June 2016, 10:45 a.m. – 12:15 p.m.
Symposium, Hall E2

Setting Standards for Measuring Inequalities in Oral Health

Chairpersons: G. Tsakos and D. Williams

0245 10:45 a.m. Standard Measures of Oral Health Inequalities: Are They Relevant?. R. WEYANT* (School of Dental Medicine, University of Pittsburgh, Pennsylvania, USA)

0246 11:05 a.m. The Impact of Education on Health: Ways to Measure Causal Effects. J. GRYTEN* (University of Oslo, Norway)

0247 11:25 a.m. Composite Measures of Oral Health Inequalities: Do They Add Anything?. L. DO* (ARCPH, Dental School, The University of Adelaide, South Australia, Australia)

0248 11:40 a.m. Towards Core Set of Methods for Oral Health Inequalities Research. G. TSAKOS* (Epidemiology and Public Health, University College London, United Kingdom)

12:05 p.m. Discussion.

Seq# 56 Thursday, 23 June 2016, 10:45 a.m. – 12:15 p.m.
Symposium, Hall E3

Tissue Engineering and Dental Regeneration

Chairperson: Y. Ku

0249 10:45 a.m. Control of Odontoblast Differentiation and Dentin Formation. J.-C. PARK* (School of Dentistry, Seoul National University, Seoul, Korea (the Republic of))

0250 11:05 a.m. Tooth Development and Regeneration in Swine Model. S. WANG* (Capital Medical University School of Stomatology, Beijing, China)

0251 11:25 a.m. Periodontal Tissue Engineering With Multiphasic Scaffolds. S. IVANOVSKI* (Griffith Health Centre, Griffith University - Gold Coast Campus, Southport, Queensland, Australia)

0252 11:45 a.m. Regeneration-based Procedures in Endodontics: A Critical Appraisal. N. SHAH* (All India Institute of Medical Sciences, New Delhi, India)

12:05 p.m. Discussion.

Seq#: 57 Thursday, 23 June 2016, 10:45 a.m. – 12:15 p.m.
Symposium, Hall E5

Wnt Signaling in Development, Inflammation and Regeneration

Chairpersons: J. Mao and C. Wang

0253 10:45 a.m. Wnt Signaling in Inflammatory Diseases. B. YU* (University of California, Los Angeles, USA)

0254 11:10 a.m. Wnt 10A in Ectodermal Dysplasias and Tooth Agenesis. R. D'SOUZA* (School of Dentistry, University of Utah, Salt Lake City, USA)

0255 11:35 a.m. Epithelium-mesenchyme Crosstalk by Exosomes and Wnt Signaling. M. CHEN* (Forest Hills, N.Y., USA)
 12 p.m. Discussion.

Seq#: 58 Thursday, 23 June 2016, 10:45 a.m. – 12:15 p.m.
Oral Session, 308BC

Behavioral, Epidemiologic, and Health Services Research – Oral Health in Global Populations

Chairpersons: S. Baker and A. Durey

0256 10:45 a.m. 'I've Always Covered My Teeth When I Smile' – Aboriginal Teenagers' Perspectives of Oral Health. A. DUREY*, M. FATNOWNA, D. MCAULLAY, L. SLACK-SMITH (School of Dentistry M512, University of Western Australia, Crawley)

0257 11 a.m. Oral Care for Aboriginal Children in Western Australia: Dental Professionals' Perspectives. L. SLACK-SMITH*, L. HEARN, M. O'GRADY, A. DUREY (School of Dentistry M512, University of Western Australia, Crawley)

0258 11:15 a.m. Structural Determinants of Children's Oral Health: An Analysis of 11 Countries. S. BAKER*, L. FOSTER PAGE, W.M. THOMSON, K. BEKES, P. BENSON, F. DEL CARMEN AGUILAR-DIAZ, L. DO, Z. MARSHMAN, C. MCGRATH, A. MOHAMED, P. ROBINSON, J. TRAEBERT, B. TURTON, B. GIBSON (School of Clinical Dentistry, University of Sheffield, England, UK)

S0259 11:30 a.m. Oral Health Promotion for Pregnant Women in Hong Kong. W. WEN*, P. LIU, E. LO, X. GAO, R. WATT, M.C. WONG (Dental Public Health, Faculty of Dentistry, The University of Hong Kong)

S0260 11:45 a.m. Community-Based Prevention for an Indigenous Village in MALAYSIA. K.Q. LEW*, H.L.M. WU, L.C. CHIAM, Y.M.J. FONG, X.Y. LIM, S.E. YII, N. RAMAR (Dentistry, International Medical University, Bukit Jalil, Kuala Lumpur, Malaysia)

C0261 12 p.m. Provision of Oral Hygiene and Diet Counselling to Patients in Dental Clinics in Suva, Fiji. A. NAIDU*, T. NELIS (Oral Health, Fiji National University, Suva)

Seq#: 59 Thursday, 23 June 2016, 10:45 a.m. – 12:15 p.m.
Oral Session, 203

Cariology Research-Detection, Risk Assessment and Others – Keynote Address; Cariology Research-Detection, Risk Assessment & Others I

Chairpersons: S. Leal and Y. Shimada

0262 10:45 a.m. Keynote Address: Optical Fluorescence Technology for Detection of Oral Disease. B.-I. KIM* (Yonsei University, Seoul, Korea (the Republic of))

SC0263 11:15 a.m. Dental Caries Diagnosis With Fluorescent Biopolymer Nanoparticles. N. JONES*, S.-R. CHANG, J. LAHANN, B.H. CLARKSON (Macromolecular Science and Engineering, The University of Michigan, Ann Arbor, USA)

0264 11:30 a.m. 3D Assessment of Dental Caries Using Swept-source Optical Coherence Tomography *in vivo*. Y. SHIMADA*, J. HAYASHI, I. WADA, O. ARAMAKI, A. SADR, Y. SUMI, J. TAGAMI (Department of Cariology and Operative Dentistry, Tokyo Medical and Dental University, Tokyo, Japan)

SC0265 11:45 a.m. Non-cavitated Approximal Caries Detection With Near-Infrared Digital Imaging Transillumination. N. ABOGAZALAH*, A. HARA, A. GOSSWEILER, G. ECKERT, M. ANDO (Cariology, Operative Dentistry and Dental Public Health, Indiana University School of Dentistry, Indianapolis, Indiana, USA)

S0266 12 p.m. Analysis of White Spot Lesions Using Scanning Electron Microscopy. M. MOEINIAN*, F. WONG, R. HILL (QIMUL, London, United Kingdom)

Seq#: 60 Thursday, 23 June 2016, 10:45 a.m. – 12:15 p.m.
Oral Session, 317A

Clinical and Translational Science Network – Clinical & Translational Science I

Chairperson: M. Ryan

S0267 10:45 a.m. Immunology Stretch: Natural Killer Cells Participate in Orthodontic Tooth Movement. O. FLEISSIG*, S. CHAUSHU (The Hebrew University, Modi'in, Israel)

C0268 11 a.m. A Bayesian-based Decision Support System for Assessing the Need for Orthodontic Treatment. B. THANATHORNWONG*, S. SUEBNUKARN, P. KLATT (Srinakharinwirot University, Bangkok, Thailand)

0269 11:15 a.m. Interoperability Evaluation of a Mobile Health-oriented Electronic Oral Health Record. S. SUEBNUKARN*, D. SRINAPROM, P. POOLTHANANUNT, P. RANGSANTHAM, M. WONGSAPEI (Faculty of Dentistry, Thammasat University, Klongluang, Pathumthani, Thailand)

SE0270 11:30 a.m. Apical Periodontitis and Coronary Heart Disease. J. LILJESTRAND*, P. MÄNTYLÄ, S. PAJU, K. BUHLIN, E. KOPRA, M. HERNANDEZ, M. NIEMINEN, J. SINISALO, L. TJÄDERHANE, P. PUSSINEN (Department of Oral and Maxillofacial Diseases, University of Helsinki, Espoo, Finland)

SC0271 11:45 a.m. Two-year Evaluation of a Clinical Pilot Study in HIV-positive Participants. L. PINZON*, G. HERNANDEZ, E. BECK, C. SHIBOSKI (School of Dentistry, University of Utah - Salt Lake City, Salt Lake City, Utah, USA)

SC0272 12 p.m. Comparative Evaluation of Inter Appointment Pain With Calcium Hydroxide and Triple Antibiotic Paste as Intracanal Medicaments in Patients With Apical Periodontitis – A Randomised Controlled Clinical Trial. S. NARAYANAN*, S. RAMESH (Saveetha Dental College, Chennai, India)

Seq#: 61 Thursday, 23 June 2016, 10:45 a.m. – 12:15 p.m.
Oral Session, 101

Craniofacial Biology – Craniofacial Biology II

Chairpersons: S. Jia and X. Wang

S0273 10:45 a.m. Small Molecule Replacement Therapy to Rescue Craniofacial Defects. S. JIA*, J. ZHOU, J. BONDS, R. JIANG, G. MUES, R. D'SOUZA (School of Dentistry, University of Utah, Salt Lake City, USA)

1 a.m. Craniocleidal Dysplasia: Novel *RUNX2* and Metabolic Analysis. Y. XU*, M. YAN, P. ZHU, ZHANG (Department of Orthodontics, Sun Yat-sen Guangzhou, Guangdong, China)

11:15 a.m. Fibromodulin Significantly Reduces Scar in Adult Rodent and Porcine Wounds. K. LEE*, X. ZHANG, C. LI, J. ZARA, M. MURPHY, J. WANG, W. LI, G. CHANG, E. CHEN, M. DELONG, H.C. PAN, Y. CHEN, Z. ZHENG, K. TING, C. SOO (Section of Orthodontics, Division of Growth and Development, UCLA School of Dentistry, Los Angeles, California, USA)

S0276 11:30 a.m. Effects of Sonic Hedgehog Signaling Pathway Inhibitors on Ameloblastoma Cell-lines. S.N.A. ZAM*, T. MITSUYASU, K. MATSUMURA, S. KAWANO, S. NAKAMURA (Maxillofacial Diagnostic and Surgical Science, Faculty of Dental Science, Kyushu University, Fukuoka, Japan)

SE0277 11:45 a.m. The Role of Bmp2 Gene in Periodontal Stem Cell Differentiation. A. RAKIAN*, S.E. HARRIS (Periodontics, The University of Texas Health Science Center at San Antonio, Texas, USA)

12 p.m. Discussion.

Seq#: 62 Thursday, 23 June 2016, 10:45 a.m. – 12:15 p.m.
Oral Session, 105

Dental Materials 2: Polymer-based Materials – Dental Materials: Polymer-based Materials II

Chairpersons: N. Ilie and B. Suh

E0278 10:45 a.m. Surface Properties of Tricalcium Phosphate and Hydroxyapatite Resin-composites. R. SALAH-UD-DIN, X. CHEN*, N. SILIKAS, D. WATTS (School of Dentistry, The University of Manchester, Manchester, United Kingdom)

O279 11 a.m. Long-term Characterisation of Modern Bioactive Restoratives for Bulk-fill Placement. N. ILIE*, B. STAWARCZYK (Dental School, Ludwig-Maximilians-University, Munich, Germany)

O280 11:15 a.m. Apatite Formation on Experimental Bioactive Self-Adhesive Resin Cement. L. CHEN*, C. GLEAVE, B. SUH (Research and Development, BISCO, Inc., Schaumburg, Illinois, USA)

SC0281 11:30 a.m. Ion Release From Fluoride-Bioactive Glass Composite in Different Media. N. ALEESA*, F. WONG, R. HILL, A. JOHAL (Barts and the London dental institute, London, United Kingdom)

O282 11:45 a.m. Biofilm Formation and Effect on Physical Properties of Antibacterial Sealant. B. SUH*, L. CHEN, C. GLEAVE, M. CANNON, B. KABAT (BISCO, Inc., Schaumburg, Illinois, USA)

SC0283 12 p.m. Novel Chlorhexidine Compounds and Controlled Release From a UDMA-HEMA Resin. D. LUO*, S. SHAHID, M. CATTELL, G. SUKHORUKOV (School of Engineering and Materials Science, London, United Kingdom)

Seq#: 63 Thursday, 23 June 2016, 10:45 a.m. – 12:15 p.m.
Oral Session, 104

Dental Materials 6: Instruments and Equipment – Keynote Address; Lasers in Dentistry

Chairpersons: R. Price

O284 10:45 a.m. Keynote Address: Lasers in Dentistry-Alternative or Adjunct. A. BRAUN* (University of Marburg, Marburg, Germany)

O285 11:15 a.m. An *in Vitro* Evaluation of Novel Vacuum Positive Pressure Obturation Technique. M. RAJAN*, K. DEIVANAYAGAM (Conservative Dentistry and Endodontics, Sri Ramachandra Dental College, Chennai, India)

S0286 11:30 a.m. Penetration of Sub-micron Particles Into Dental Tubules Using Ultrasonic Cavitation. N. VYAS*, R. SAMMONS, Z. PIKRAMENOU, H. DEGHANI, D. WALMSLEY (University of Birmingham, Birmingham, United Kingdom)

SC0287 11:45 a.m. 3D Analysis of Enamel Crack Behavior Using Optical Coherence Tomography. M. SEGARRA*, Y. SHIMADA, A. SADR, Y. SUMI, J. TAGAMI (Cariology and Operative Dentistry, Tokyo Medical and Dental University, Paranaque, Philippines)

12 p.m. Discussion.

Seq#: 64 Thursday, 23 June 2016, 10:45 a.m. – 12:15 p.m.
Oral Session, 102

Dental Materials 8: Clinical Trials – Keynote Address; Clinical Trials: Postoperative Sensitivity, Miscellaneous I

Chairpersons: S. Bayne and A. Loguercio

O288 10:45 a.m. Keynote Address: Current Challenges for Dental Materials Research: The Street Light Effect. S. BAYNE* (University of Michigan, Ann Arbor, USA)

C0289 11:15 a.m. OCT-assessment of Etching Protocols of a Universal Adhesive *In vivo*. R. HAAK*, M. HAEFER, P. SCHMIDT, F. KRAUSE, H. SCHNEIDER (Dept. of Cariology, Endodontology and Periodontology, University of Leipzig, Leipzig, Germany)

C0290 11:30 a.m. Randomized clinical trial of post-operative sensitivity: bulk-fill composite resin placement. A. LOGUERCIO*, T. COSTA, M. REZENDE, A. SAKAMOTO, B. BITTENCOURT, P. DALZUCHIO, A. REIS (Department of Restorative Dentistry, State University of Ponta Grossa, Ponta Grossa - Paraná, Brazil)

SC0291 11:45 a.m. Comparison of Post-Operative Sensitivity of Two Flowable Composites in Non-Carious Cervical Lesions – A Randomised Blinded Clinical Trial. S. DHANAPAL* (conservative dentistry & endodontics, saveetha dental college, Chennai, Tamil nadu, India)

C0292 12 p.m. Clinical Evaluation of Two Transparent Fissure Sealants After 12 Months. K. BRANDT, E. EHNERT, H.-G. SCHALLER, K. BEKES* (Dept. of Pediatric Dentistry, University Dental Clinic, Medical University Vienna, Vienna, Austria)

Seq#: 65 Thursday, 23 June 2016, 10:45 a.m. – 12:15 p.m.
Oral Session, 308A

Diagnostic Sciences – Diagnostic Sciences I

Chairperson: T. Goto

O293 10:45 a.m. Brain Activations by Umami and Salty Taste in Humans. T. GOTO*, W.K.A. YEUNG, L.K.J. SUEN, W.K. LEUNG (Oral and Maxillofacial Radiology, Tokyo Dental College, Tokyo, Japan)

SC0294 11 a.m. Mapping pH Changes at Biofilm-enamel Interfaces Using Up-conversion Nanoparticles. G.-R. TAN*, C.-Y. HSU, Y. ZHANG (Faculty of Dentistry, National University of Singapore, Singapore, Singapore)

C0295 11:15 a.m. Quantification of Oral Malodor Based on the Autofluorescence of Tongue and Interdental Plaque. E.-S. LEE*, H.-S. LEE, J.-H. CHOI, H.-K. KWON, B.-I. KIM (Preventive Dentistry & Public Oral Health, BK 21 PLUS Project, Oral Science Research Institute, Yonsei University College of Dentistry, Seoul, Korea (the Republic of))

SC0296 11:30 a.m. Detection of Enamel Cracks by Optical Coherence Tomography. M. JUN*, H.-M. KU, H.-K. KWON, B.-I. KIM (Departments of Preventive Dentistry & Public Oral Health, Yonsei University College of Dentistry, Seoul, Seodaemun-Gu, Korea (the Republic of))

C0297 11:45 a.m. Amounts of Artifacts Induced by Dental Materials in CBCT in Comparison With MDCT. S. HAMIDIAVAL*, M. MOSHFEGHI (oral and maxillofacial radiology, Tehran, Iran (the Islamic Republic of))

0298 12 p.m. Prevalence of Symmetry in Root and Root Canal Anatomy of Mandibular First and Second Premolars in the Turkish Population Analyzed by Cone-beam Computed Tomography *in Vivo*. M.B. GUNESER*, T. UNVER (Endodontics, Bezmialem Vakif University, Faculty of Dentistry, Istanbul, Turkey)

Seq#: 66 Thursday, 23 June 2016, 10:45 a.m. – 12:15 p.m.
Oral Session, 208

Implantology Research – Prospective Studies on Dental Implants I

Chairpersons: J. Mitchell and J. Shibli

0299 10:45 a.m. Levels of Semaphorins 3A, 3B, 4A and 4D in Peri-implantitis Tissues: A Human Controlled Study. J. SHIBLI*, L. DE FRANCO, G. GIRO, M. FERES, M. BASTOS (Periodontology and Oral Implantology, University of Guarulhos, Guarulhos, Brazil)

SC0300 11 a.m. Platelet-Rich Fibrin for Ridge Preservation: A Randomized Controlled Clinical Study. D. CLARK*, S. PAYDAR, Y. RAJENDRAN, F. YANG, J. DOLLARD, S. HO, D. COX, M. RYDER, R. KAO (Periodontology, University of California San Francisco, San Francisco, California, USA)

C0301 11:15 a.m. Reduced Diameter Implants in Typell Diabetes and Healthy Patient – Results Upon Integration. A. FRIEDMANN*, M. AGRANOWSKI, K. FISCHER, D. KANER (Department of Periodontology, Witten University, Witten, Germany)

C0302 11:30 a.m. Randomized Clinical Trial Comparing PEG-based Synthetic Membrane to Porcine-derived Collagen Membrane as a Barrier in Alveolar Ridge Preservation Following Tooth Extraction in Anterior Maxilla. S. SHAHDAD*, A. GAMBOA, J. MATANI, R. MACEDO, E. GAMBLE (Adult Oral Health, Queen Mary University of London, London, United Kingdom)

C0303 11:45 a.m. Outcomes of 6.5mm Short Hydrophilic Implants Placed With Osteotome Sinus Floor Elevation and Standard Long Implants Placed With Lateral Sinus Floor Elevation With Bone Grafting in the Severely Strophic Posterior Maxilla: A Prospective Controlled Clinical Comparison. H. YU*, L. QIU (Peking University School and Hospital of Stomatology, Beijing, China)

SC0304 12 p.m. Impact of Timing of Placement on Aesthetic Outcomes Around Single Implants in Anterior Maxilla. H. ARORA*, S. IVANOVSKI (School of Dentistry and Oral Health, Griffith University, Gold Coast, Queensland, Australia)

Seq#: 67 Thursday, 23 June 2016, 10:45 a.m. – 12:15 p.m.
Oral Session, 307BC

Mineralized Tissue – Osteoclasts & Osteoblasts

Chairpersons: E. Aoyama and J. Yamashita

E0305 10:45 a.m. Protein O-GlcNAcylation Regulates Osteoclast Differentiation. Y. CHEN*, Q. LIU, K. HE, J. CHEN, H. WU (Pathology, University of Alabama at Birmingham, Birmingham, Alabama, USA)

0306 11 a.m. Role of CCN2/CTGF-related CD302 in Osteoclast Maturation. E. AOYAMA*, S. KUBOTA, M. TAKIGAWA (Advanced Research Center of Oral Craniofacial Sciences (ARCOCS), Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Science, Okayama City, Okayama Prefecture, Japan)

S0307 11:15 a.m. V-ATPase α -subunit N-glycosylation: A Potential Target for Periodontal Bone Loss. J.W. KIM*, S. ESMAIL, Y. YAO, N. KARTNER, R. REITHMEIER, M. MANOLSON (Faculty of Dentistry, University of Toronto, Toronto, Ontario, Canada)

E0308 11:30 a.m. LSD1 Inhibitor Rescues Osteoporotic Conditions Through Epigenetic Modulation. L. LV*, Y. ZHOU (Peking University, Beijing, China)

0309 11:45 a.m. PTH Administration Induced Bone Formation in Wounded Bone Marrow. J. YAMASHITA*, K. KOI (Oro-Facial Plastic Surgery, Fukuoka Dental College, Fukuoka, Japan)

0310 12 p.m. Strontium Incorporated Nano-scale Pores on Titanium Implant Surface for Rapid Osseointegration. X. JIANG* (Ninth Peoples Hospital, Shanghai Jiao Tong University, Shanghai, China)

Seq#: 68 Thursday, 23 June 2016, 10:45 a.m. – 12:15 p.m.
Oral Session, Hall E4

Mineralized Tissue – Regulation of Mineralization

Chairpersons: D. Napierala and J. Tsoi

E0311 10:45 a.m. Effects of Bone Formation by Flavonoids: An *In Silico* Study. J.K.-H. TSOI*, K. CHAN, Y. YANG (Faculty of Dentistry, The University of Hong Kong, Sai Ying Pun, Hong Kong)

S0312 11 a.m. Ablating Fam20C in Type I Collagen-expressing Cells Causes Hypophosphatemic Rickets. P. LIU*, S. MA, H. ZHANG, C. LIU, L. CHEN, C. QIN (Harbin Medical University School of Stomatology, Harbin, China)

0313 11:15 a.m. Phosphate Signaling is Involved in Matrix Vesicle Formation During Odontoblast-Initiated Mineralization. S. CHAUDHARY, M. KUZYSKI, C. MOBLEY, D. NAPIERALA* (Institute of Oral Health Research, University of Alabama at Birmingham, Birmingham, Alabama, USA)

E0314 11:30 a.m. Effects of Osteoporosis Therapeutic Agents on Alveolar Bone Mineral Distribution. D.-G. KIM*, C.-M. HAN, Y.-H. JEONG, A. ALTMAN, M.-J. SHIM, K. LEE, S. LIU (Orthodontics, Ohio State University, Columbus, Ohio, USA)

0315 11:45 a.m. Positively-charged Polyamine as Nucleation Inhibitor in Intrafibrillar Mineralization of Collagen. L. NIU, K. JIAO, L. TONGGU, L. WANG, J. CHEN, F. TAY* (Department of Endodontics, Augusta University, Augusta, Georgia, USA)

S0316 12 p.m. Biphasic Mineralized Collagen Scaffold for Bone Defect Restoration. L. NIU*, K. JIAO, J. CHEN, F. TAY (State Key Laboratory of Military Stomatology, fourth military medical university, school of stomatology, Xi'an, Shaanxi, China)

Seq#: 20 Thursday, 23 June 2016, 10:45 a.m. – 12:15 p.m.
Oral Session, 327B

Neuroscience – Keynote Address; TMD & Related Pain Conditions I

Chairperson: R. Ohrbach

0097 2:30 p.m. Keynote Address: Unraveling Complex Persistent Pain Conditions With Phenotypic and Genetic Biomarkers: Implications for Translational Pain Medicine. W. MAIXNER* (Duke University, Durham, North Carolina, USA)

0098 3 p.m. TMD Risk Prediction is Enhanced Using Temporally Dynamic Risk Factors. R. OHRBACH*, R. FILLINGIM, E. BAIR, N. RATHINAYAKA, J. GREENSPAN, L. DIATCHENKO, R. DUBNER, W. MAIXNER, G. SLADE (University at Buffalo, Buffalo, New York, USA)

SC0099 3:15 p.m. Further Characteristics of Jaw Injury and TMD: The OPPIA Study. S. SHARMA*, G. SLADE, J. WACTAWSKI-WENDE, R. FILLINGIM, J. GREENSPAN, L. DIATCHENKO, E. BAIR, W. MAIXNER, R. OHRBACH (University at Buffalo, Buffalo, New York, USA)

C0100 3:30 p.m. Secondary Headache is the Most Common Headache in TMD-pain Patients. C. VISSCHER*, D. UYSAL, F. LOBBEZOO (Oral Health Sciences, Academic Centre for Dentistry Amsterdam (ACTA), Amsterdam, Netherlands)

C0101 3:45 p.m. Anti-nuclear Antibody and Rheumatoid Factor Positivity in Temporomandibular Disorders Patients. J.R. KIM, J.H. JO, J.-W. CHUNG, J.-W. PARK* (Oral Medicine and Oral Diagnosis, School of Dentistry and Dental Research Institute, Seoul, Korea (the Republic of))

Seq#: 69 Thursday, 23 June 2016, 10:45 a.m. – 12:15 p.m.
Oral Session, Hall E1

Oral Health Research – Dental Plaque Control I

Chairpersons: R. Adam and R. Gerlach

0317 10:45 a.m. Superior Dental Plaque Removal and Compliance of an Interactive Toothbrush. C. ERBE, F. BRAUNBECK, P. FERRARI-PERON, V. KLEES, R. ADAM*, R. CCAHUANA-VÁSQUEZ, H. TIMM, P. CUNNINGHAM, J. GRENDER, S. FARRELL, H. WEHRBEIN (Procter & Gamble Service GmbH, Kronberg im Taunus, Germany)

C0318 11 a.m. Anti-Plaque Efficacy of Therapeutic Dentifrice and Power Brush Regimen. C. GARCIA-GODOY, R. GERLACH, M. MINER, M. BARKER, S. FARRELL* (Procter & Gamble Company, Mason, Ohio, USA)

0319 11:15 a.m. Effectiveness and Safety of SnF2/H2O2 Daily Hygiene: Inclusive Clinical Meta-Analysis. R. GERLACH*, P. SAGEL (Health Care Research Center, Procter & Gamble Company, Mason, Ohio, USA)

0320 11:30 a.m. Gingivitis Response Comparing SnF2/H2O2 and KNO3 Daily Use Whitening Products. P. AMINI*, M. MINER, R. GERLACH (Silverstone Research Group, Las Vegas, Nevada, USA)

S0321 11:45 a.m. The Effect of Antiseptic Oral Sprays on Dental Plaque and Gingival Inflammation: A Systematic Review and Meta-analysis. J. ZHANG*, N. AB MALIK, C. MCGRATH, O. LAM (University of Hong Kong, Hong Kong, Hong Kong)

SC0322 12 p.m. Effectiveness of Chitosan-flavonoids (Propolis Extract) Nanoformulations Against *Enterococcus faecalis* Biofilms in the Root Canal. A. PAROLIA*, F. DAVAMANI, R. SIDALINGAM, S. RAMAMURTHY, H. KUMAR, A. PAU (School of Dentistry, International Medical University, Kuala Lumpur, Malaysia)

Seq#: 70 Thursday, 23 June 2016, 10:45 a.m. – 12:15 p.m.
Oral Session, 317BC

Oral Medicine & Pathology – Oral Medicine & Pathology II

Chairpersons: Y. Choi and K. Soe

S0323 10:45 a.m. *miR-146a-5p* Enhances Oncogenic Activities by Repressing TRAF6 and p-FADD-Ser194. S.-K. MIN*, S.Y. JUNG, H.K. KANG, S.A. PARK, S.B. JO, M.J. KIM, B.-M. MIN (Oral and Maxillofacial Surgery, Seoul National University School of Dentistry, Seoul, Korea (the Republic of))

0324 11 a.m. The Presence of Bacteria Within Tissue Provides Insights Into the Pathogenesis of Oral Lichen Planus. Y. CHOI, Y. KIM, H.-J. YOON, K. BAEK, J. ALAM, H. PARK, Y. CHOI* (Department of Dental Science, Seoul National University, Seoul, Korea (the Republic of))

S0325 11:15 a.m. Targeting STAT3 Signaling Reduces Immunosuppressive Myeloid Cells in HNSCC. L.-L. BU*, G.-T. YU, W.-W. DENG, A. KULKARNI, W.-F. ZHANG, Z.-J. SUN (School of Stomatology, Wuhan University, Wuhan, China)

SE0326 11:30 a.m. Detection of p16 and p53 in Potentially Malignant Disorders and Oral Squamous Cell Carcinoma. N.M. PURWANINGSIH*, A. SAILAN, S. MOHD SINON (Oral Biology, UKM, Kuala Lumpur, Malaysia)

S0327 11:45 a.m. Two-Dimensional Gel-Based Proteomic Analysis of Salivary Proteins in Oral Lichen Planus. S. TALUNGCHIT*, W. BUAJEED, S.-O. KHOVIDHUNKIT, R. SURARIT, K. CHAIRATVIT, S. ROYTRAKUL (Mahidol University, Rajthawi, Thailand)

Seq#: 71 Thursday, 23 June 2016, 10:45 a.m. – 12:15 p.m.
Oral Session, 318B

Pediatric Oral Health Research – Pediatric Oral Health Research: Community Programs, Caregivers & Clinical Outcomes

Chairpersons: M. Mtaya and F. Ramos-Gomez

C0328 10:45 a.m. Developing Innovative Retention Strategies With Community Partners Increases Attendance. F. RAMOS-GOMEZ*, S. GREGORICH, M. OROZCO, S. GANSKY (Section of Pediatric Dentistry, University of California - Los Angeles, Los Angeles, California, USA)

0329 11 a.m. Cambodia Smile – Preliminary Results From an Early Childhood Caries Intervention. S. SOPHARITH*, B. TURTON, C. DURWARD, F. CROMBIE, D. MANTON (University of Puthisastra, Phnom Penh, Cambodia)

SC0330 11:15 a.m. Economic Evaluation of a Pilot Targeted School-Based Dental Check-up Program. T. NGUYEN*, A. HSUEH, M. MORGAN, R. MARI—O, S. KOSHY (Melbourne Dental School, The University of Melbourne, Melbourne, Victoria, Australia)

0331 11:30 a.m. Oral Healthcare Practices and Knowledge Among Parents and Hired Caregivers. Q. ALKHUBAIZI*, A. MOULE, M. AL-SANE, J. SORKIN (Department of General Dental Practice, Kuwait University, Safat, Kuwait)

0332 11:45 a.m. Prevalence of Malocclusions and their Associated Factors Among Children With Disabilities in Dar es Salaam, Tanzania. V. BYARUGABA, M. MTAYA*, F. MACHIBYA (Orthodontics Paedodontics and Community Dentistry, Muhimbili University of Health and Allied Sciences, School of Dentistry, Dar es Salaam, Tanzania, United Republic of)

0333 12 p.m. TMD and Comorbidities Among Adolescents in Nice: Cross Sectional Study. M. MULLER-BOLLA*, R. SABBAH, K. KHAN, M. GORNITSKY, S. MOHIT, A. VELLY (Pediatric dentistry, UFR Odontology UNS - UCA, Nice, France)

Seq#: 72 Thursday, 23 June 2016, 10:45 a.m. – 12:15 p.m.
Oral Session, 401

**Periodontal Research-Pathogenesis – Periodontal
Research-Pathogenesis: Periodontal Disease Markers**

Chairpersons: P. Papapanou and X. Wang

0334 10:45 a.m. Master Regulator Genes in Human Periodontitis. A. SAWLE, M. KEBSCHULL, P. GUARNIERI, R. DEMMER, P. PAPAPANOU* (Periodontics/Oral, Diagnostic & Rehabilitation Sciences, College of Dental Medicine, Columbia University, New York, New York, USA)

S0335 11 a.m. Gene Expression Analysis in Periodontitis Using Spatial Transcriptomics. A. LUNDMARK*, T. YUCEL-LINDBERG (Department of Dental Medicine, Karolinska Institutet, Huddinge, Sweden)

C0336 11:15 a.m. A Novel Mitochondrial DNA Deletion in Aggressive Periodontitis. X. WANG*, Q. LUAN (Department of Periodontology, Peking University School and Hospital of Stomatology, Beijing, China)

SE0337 11:30 a.m. Comparison of Sulfiredoxin Levels Between Chronic Periodontitis and Healthy Subjects. A. RAMESH*, S. VARGHESE (Dept of Periodontics, Saveetha Dental College & Hospital, Chennai, Tamil Nadu, India)

SE0338 11:45 a.m. Comparison of Interleukin-21 Level Among Healthy, Chronic and Aggressive Periodontitis. A. MOOTHA*, S. M. (periodontics, saveetha dental college, Chennai, tamil nadu, India)

SC0339 12 p.m. Increased Levels of CD163 in Periodontitis Patients. L. DETZEN*, C.-Y. CHEN, B. CHENG, P. PAPAPANOU, E. LALLA (Periodontics/Oral, Diagnostic & Rehabilitation Sciences, Columbia University, New York, New York, USA)

Seq#: 73 Thursday, 23 June 2016, 10:45 a.m. – 12:15 p.m.
Oral Session, 402

**Prosthodontics Research – Zirconia Experience in Fixed
Prosthodontics**

Chairpersons: S. Ahn and H. Nouh

C0340 10:45 a.m. Full-contour Zirconia Crowns in the Esthetic Zone in Heavy Grinders. H. GJENGEDAL*, C. SCHRIWER, M. ØILO, T.L. HANSEN (Department of clinical dentistry, University of Bergen, Bergen, Norway)

S0341 11 a.m. Toothbrushing's Effect on the Color of Extrinsically Stained Monolithic Zirconia. H. NOUH*, Y. FAN, D. NATHANSON (Department of Restorative Sciences and Biomaterials, Henry M. Goldman School of Dental Medicine, Boston University, Boston, Massachusetts, USA)

SC0342 11:15 a.m. Evaluation and Comparison of Fracture Resistance Between Hand Layered Zirconia and CAD ON Crowns. A. KALAMBETTU*, K.K. MANE, T. N. D. VEERAIYAN (Department of Prosthodontics, Saveetha Dental College, Chennai, India)

S0343 11:30 a.m. In-vitro Comparison of Zirconia Polishing Systems After Simulated Occlusal Adjustment. A. KAVAR*, N. BROMBAL, S. NOMOTO, Y. FAN, D. NATHANSON (Department of Restorative Sciences and Biomaterials, Henry M. Goldman School of Dental Medicine, Boston University, Boston, Massachusetts, USA)

C0344 11:45 a.m. Influence of Zirconia Surface Conditioning on Shear Bond Strength Between Zirconia and Dental Resin Cement. S.G. AHN*, K.-Y. SONG, J.-M. PARK, J.-J. LEE, J.-M. SEO (School of Dentistry, Chonbuk National University, Jeonju-si, Jeollabuk-do, Korea (the Republic of))

12 p.m. Discussion.

Seq#: 74 Thursday, 23 June 2016, 10:45 a.m. – 12:15 p.m.
Oral Session, 318C

Salivary Research – Salivary Research II

Chairpersons: H. Brand and S. Cha

0345 10:45 a.m. General Physicians' Attitudes Towards Point-of-care Saliva Testing. H. BRAND*, M. KARIM, E. VEERMAN (Department of Oral Biochemistry, Academic Centre for Dentistry Amsterdam (ACTA), Amsterdam, Netherlands)

S0346 11 a.m. Identification of Actively Cycling Salivary Gland Stem Cells Contributing to Development, Renewal and Regeneration of Secretory Complex. M.G. KWAK*, N. ALSTON, S. GHAZIZADEH (Dept of Oral Biology and Pathology, Stony Brook Dental School, Stony Brook, New York, USA)

11:15 a.m. Discussion.

SC0347 11:30 a.m. Critical Saliva Parameters Decrease Following Head-and-neck Radiotherapy. C. SIM*, D. MANTON, G. WALKER, Y.-L. SOONG, J. WEE, E. REYNOLDS (Dept. of Restorative Dentistry, National Dental Centre of Singapore, Singapore, Singapore)

SC0348 11:45 a.m. Screening Model for Subclinical Atherosclerosis Using Salivary Intercellular Adhesion Molecule and Vascular Cell Adhesion Molecule. M.-S. SHIN* (Department of preventive dentistry, Dental College, Seoul National University, Seoul, Korea (the Republic of))

12 p.m. Discussion.

Seq#: 76 Thursday, 23 June 2016, 2 p.m. – 3:15 p.m.
Poster Session, Hall B

**Behavioral, Epidemiologic, and Health Services Research
– Risk, QoL & Life-Course Factors**

SC0349 Oral Health of Hong Kong Institutionalized Adults With Intellectual Disability. R. SUEN*, E. LO, C.H. CHU (Faculty of Dentistry, University of Hong Kong, Hong Kong, SAR, Hong Kong)

0350 What I Talk About When I Talk About Risk. L. LAVERTY, R. HARRIS* (University of Liverpool, Cheshire, United Kingdom)

S0351 Life-course Socioeconomic Factors and Oral Health in Older British Men. S. RAMSAY*, E. PAPACHRISTOU, R. WATT, G. TSAKOS, A. PAPACOSTA, L. LENNON, S. WANNAMETHEE, P. WHINCUP (University College London, London, United Kingdom)

0352 Cross-cultural Adaptation of a Generic Quality-of-Life (QoL) Instrument for use in Economic Evaluation. N. TAK*, B. TURTON, L. FOSTER PAGE, W.M. THOMSON, C. DURWARD, D. MANTON (University of Health Sciences - Cambodia, Phnom Penh, Cambodia)

0353 A Comparative Analysis of the Social Material Impacts of Dry Mouth and Denture Hypersensitivity: A Social Practice Perspective. B. GIBSON*, S. BAKER, M. BLAKE (University of Sheffield, England, UK)

S0354 Oral Health Problems and Oral Health-related Quality-of-life Among Pregnant Women. P. LIU*, W. WEN, X. GAO, R. WATT, M.C. WONG (Dental Public Health, Faculty of Dentistry, The University of Hong Kong, Hong Kong, China)

SC0355 Clinical and Psychosocial Determinants of Subjective Oral Health Outcomes in People Receiving New Dentures. K. PERIYAKARUPPIAH*, P. ROBINSON, T. PADMANABAN, S. BAKER (Academic Unit of Dental Public Health, School of Clinical Dentistry, University of Sheffield, Sheffield, South Yorkshire, United Kingdom)

- E0356** Adverse Events Related to Fluoride Varnish. A.K. MASCARENHAS* (College of Dental Medicine, Nova Southeastern University, Fort Lauderdale, Florida, USA)
- 0357** Long-term Quality of Life After Treatment of Nasopharyngeal Carcinoma. I. TEW*, D.L.W. KWONG, E. POW (Dentistry, The National University Of Malaysia, Kuala Lumpur, Kuala Lumpur, Malaysia)
- S0358** Epidemiological Survey of Tooth Wear in Shanghai Urban Area. T. YU*, D. TAO, X. FENG (Department of Preventive Dentistry, Ninth People's Hospital, School of Medicine, Shanghai Jiao Tong University, Shanghai Key Laboratory of Stomatology, Shanghai, China)
- 0359** Turkish Adaptation of Dentine Hypersensitivity Experience Questionnaire (DHEQ). C. CELIK*, S. BASARAN (Restorative Dentistry, Baskent University, Ankara, Turkey)
- E0360** Open Access to Dental Literature: Situation 2015. F. HUA, H. SUN, T. WALSH, H. WORTHINGTON, A.-M. GLENNY* (Cochrane Oral Health Group, School of Dentistry, The University of Manchester, Manchester, United Kingdom)
- C0361** Arresting Dental Caries in Preschool Children by Topical Fluorides – 30-month Results. D. DUANGTHIP*, C.H. CHU, E. LO (Faculty of Dentistry, University of Hong Kong, Sai ying pun, Hong Kong)
- SE0362** Reporting Guideline Endorsement: Survey of Dental Journals' Instructions and Editors. F. HUA*, T. WALSH, A.-M. GLENNY, H. WORTHINGTON (Cochrane Oral Health Group, School of Dentistry, The University of Manchester, Manchester, United Kingdom)

Seq#: 77 Thursday, 23 June 2016, 2 p.m. – 3:15 p.m.
Poster Session, Hall B

Cariology Research-Fluoride and Ca-based Products –
Cariology Research-Fluoride & Ca-based Products I

- 0363** Influence of Difference in Form of Topically Used Fluoride Agents on Inhibitory Effect of Root Dentin Demineralization - Part I: Evaluation of Hardness Using Cariotester. T. SUGAWARA*, Y. ASADA, S. NAKASHIMA, A. SHIMIZU, Y. MOMOI (Operative Dentistry, Tsurumi University School of Dental Medicine, Yokohama, Japan)
- S0364** Anti-demineralization Potential of Fluoride-Releasing Sealants to Unsealed Enamel Surfaces. T. EI*, M.J.R. ROMERO, Y. SHIMADA, S. NAKASHIMA, Y. SUMI, J. TAGAMI (Cariology and Operative Dentistry, Tokyo Medical and Dental University, Tokyo, Japan)
- SE0365** The Effects of MKP-1 on the Down-regulation of p-ERK in Fluoride Treated LS8. L. ZHAO*, J. RUAN (Preventive Dentistry, Stomatologic Hospital, Xi'an Jiaotong University, Xian, shaanxi, China)
- 0366** Dentifrice Amount and Fluoride Concentration Influence Salivary Fluoride Levels. J. PESSAN*, K. HALL, M. NAGATA, T. HOSIDA, F. MORAES, M. DANELON, R. CUNHA, A. DELBEM (Pediatric Dentistry and Public Health, Araçatuba Dental School, Univ. Estadual Paulista (UNESP), Araçatuba, São Paulo, Brazil)
- 0367** Fluoride Induced Endoplasmic Reticulum Stress and Calcium Overload in Ameloblasts. Y. ZHANG*, K. ZHANG, S. LEI, L. MA, J. LI (Preventive Dentistry, Shanghai Stomatological Hospital, Fudan University, Shanghai, Shanghai, China)
- 0368** Fluoride Release of Orthodontic Sealants Recharged With Various Preventive Measures. D. GERMEÇ ÇAKAN, S. YUCEL, E. CAN SAY* (Department of Restorative Dentistry, Yeditepe University, Istanbul, Turkey)

Seq#: 78 Thursday, 23 June 2016, 2 p.m. – 3:15 p.m.
Poster Session, Hall B

Cariology Research-Microbiological Studies/Biofilm –
Cariology Research-Microbiological Studies/Biofilm V

- 0369** Antibacterial Action of Novel Gallium-Lactoferrin Nanocomplex on *Streptococcus mutans* NCTC10449. S. VALAPPIL*, W. PAUL, D. CHERUKARAVEEDU, B. WADE, S. HIGHAM, C. SHARMA (Health Services Research, University of Liverpool, Liverpool, England, United Kingdom)
- SC0370** Anti-cariogenic Properties of a Novel Bioactive Composite. B. GHANDOURAH*, X. CHATZISTAVROU, C. GONZALEZ-CABEZAS, P. YAMAN, J. DENNISON, P. PAPAGERAKIS (Cariology, Restorative Sciences and Endodontics, University of Michigan, Ann Arbor, USA)
- SE0371** Effects of Manganese and Sucrose in Green Tea Beverages on Dental Caries Formation in a Rat Model. T. PHAYOONGRAT*, D. TUBTIMDAM, M. NGAMSOMBATJAROEN, T. BOONMARS, S. LUENGPAILIN (Faculty of Dentistry, Khon Kaen University, Muang, Khon Kaen, Thailand)
- SC0372** The Effect of Black Tea Theaflavins on *Streptococcus mutans*. Y.-N. WANG*, H. LI (Hangzhou Dental Hospital, School of Stomatology, Zhejiang Chinese Medical University, Hangzhou, China)
- SC0373** Antibacterial Effectivity of Lemon Peel Extract Against *E. faecalis* Biofilm. I. HANIDA*, N. DJAUHARIE, A. MARGONO (Conservative dentistry, Universitas Indonesia, Jakarta, Indonesia)
- E0374** Anticariogenic Potency of Red Betel (*Piper Crocatum*) Leaves Decoction. T. HANIASTUTI*, S. SUNGKAR (Oral Biology Department, Faculty of Dentistry, Universitas Gadjah Mada, Yogyakarta, DI Yogyakarta, Indonesia)
- C0375** Antibacterial and Antiplateau Efficacy of a Lactoperoxidase-Thiocyanate-Hydrogen-Peroxide-System-Containing Lozenge. A. WELK*, M. ZAHEDANI, R. BAGUHL, S. PATJEK, A. KRAMER, H. BELOW (Dept. of Restorative Dentistry, Periodontology, Endodontology, Preventive and Pediatric Dentistry, Dental School of the University Medicine Greifswald, Greifswald, M/V, Germany)
- S0376** EGCG Affects Biofilms Formed by *Streptococcus mutans* and Probiotic *Lactobacillus*. M.-Y. WANG*, K. MA, S.-L. HUNG, C.-Y. WU (Institute of Oral Biology, National Yang-Ming University, Taipei, Taiwan)
- S0377** Plant Extracts' Effect on Population of Bacteria in Single/Dual-species Biofilms. Z. SHAFIEI*, Z. RAHIM, K. PHILIP, N. THURAIRAJAH, R. MONA (Department of Oral Biology and Biomedical Sciences, University of Malaya, Kuala Lumpur, Malaysia)
- SE0378** Effects of Different Types of Tea on *Streptococcus mutans* Biofilm. I.-Y. JEONG*, M.-A. KIM, J.-H. KIM, D.-W. LEE, Y.-M. YANG, J.-G. KIM (Department of Pediatric Dentistry and Institute of Oral Bioscience, School of Dentistry, Chonbuk National University, Jeonju-si, Jeollabuk-do, Korea (the Republic of))
- S0379** Relationship Between the Anti-biofilm Activity of Chlorhexidine and Treatment Frequency. D.-W. LEE*, Y.-M. YANG, J.-G. KIM, J.-G. JEON (department of pediatric dentistry, school of dentistry, Chonbuk national university, Jeonju, Korea (the Republic of))
- S0380** Plasma-treated Water Disinfected Cariogenic Bacteria in Infected Dentin Model. T. TASAKI*, E. USUI, T. OHSHIMA, S. IKAWA, N. MAEDA, K. KITANO, Y. MOMOI (Operative Dentistry, Tsurumi University School of Dental Medicine, Yokohama, Kanagawa, Japan)



S0381 Recovery of Acidogenic Ability of Cariogenic Biofilms after Fluoride Exposure. M.H. DANG*, M.-A. KIM, J.-E. JUNG, J.-N. CAI, J.-G. JEON (School of Dentistry, Chonbuk National University, Jeonju,

0382 Inhibitory Effect of Mugwort on Expression of Antibiotic-resistance Genes. J.-H. KIM, H.-S. PARK, B.-I. PARK, Y.-W. JUNG, H.-J. NOH, Y.-O. YOU, K.-J. KIM* (Dept. of Oral Microbiology, school of dentistry, wonkwang university, Iksan, Korea (the Republic of))

S0383 Photodynamic Antibacterial Effect of Visible Light and Titanium Dioxide Treatment Against Streptococcus mutans. C. KIM*, S. KANG, E.-S. LEE, H.-K. KWON, B.-I. KIM (Preventive Dentistry & Public Oral Health, Yonsei University College of Dentistry, Seoul,

Seq# 79 Thursday, 23 June 2016, 2 p.m. – 3:15 p.m.
Poster Session, Hall B

Clinical and Translational Science Network – Clinical & Translational Science II

SC0384 Pulp Revascularization of Dog Tooth Using Modified Triple Antibiotic Paste. X. HUANG, R. ZHOU, G. LU* (School of Stomatology, Fujian Medical University, Fuzhou, China)

SC0385 Effect of Root Canal Taper and Apical Preparation Size on Irrigant Penetration and Post-operative Pain – A Clinical Trial. S. SUBRAMANIAN* (conservative and endodontics, saveetha dental college, CHENNAI, India)

SC0386 Comparison of Primary and Secondary Closure With and Without Submucosal Dexamethasone in Impacted Third Molar Surgery: A Prospective Randomised Controlled Trial. Y. VOHRA, N. MATHEW* (Oral and Maxillofacial Surgery, Saveetha Dental College, Chennai, Tamil Nadu, India)

0387 Nanomaterial Mediated Hyperthermochemotherapy Targeting at CD44+ Cancer Subpopulation. T.-J. LI, K.-J. HUANG, W.-C. SU, D.-B. SHIEH* (Institute of Oral Medicine, College of Medicine, National Cheng Kung University, Tainan, Taiwan)

0388 Systemic NELL-PEG Therapy Regenerates Jaw Bones in Osteoporotic Mice. J.H. KWAK*, J. SHI, H.C. PAN, E. CHEN, Y. ZHANG, S. LEE, B. WU, K. TING (School of Dentistry, University of California - Los Angeles, Los Angeles, California, USA)

SC0389 Recruitment of Circulating CD34+ Stem Cells Following Endodontic Periapical Surgery. S. GENENA, R. EL BACKLY*, A. EL HADIDI, A. ZAAZOU, A. ABDALLAH (Endodontics, Faculty of dentistry, Alexandria University, Alexandria, Egypt)

Seq# 80 Thursday, 23 June 2016, 2 p.m. – 3:15 p.m.
Poster Session, Hall B

Craniofacial Biology – Craniofacial Syndrome

0390 Type I Diabetes Mellitus Affects Enamel Thickness and Mineral Content. M. ABBASSY*, A. BAKRY, I. WATARI, T. ONO, A.H. HASSAN (Orthodontic Department, King Abdulaziz University, Jeddah, Saudi Arabia)

S0391 Inflammation and suppressed angiogenesis in Zoledronic acid-induced Osteonecrosis of the Jaws. C.G.D. SHARMA*, S. HAMLET, E. PETCU, C. PHILIPPA, S. IVANOVSKI (School of Dentistry & Oral Health, Menzies Health Institute Queensland, Griffith University, Southport, Queensland, Australia)

SE0392 MS-275 Rescues the Development of Cleidocranial Dysplasia in *RUNX2*^{+/−} Mice. H.-S. BAE*, W.-J. YOON, Y. CHO, R. ISLAM, H.-R. SHIN, B. KIM, K.M. WOO, J.-H. BAEK, H.-M. RYOO (Department of molecular genetics, Seoul National University, Seoul, Korea (the Republic of))

SC0393 Viscoelasticity of the Face in Adult Patients With a Repaired Unilateral Cleft Lip/Palate. D. LEE*, C. TANIKAWA, M. KOGO, T. YAMASHIRO (Department of Orthodontics and Dentofacial Orthopedics, Graduate School of Dentistry, Osaka university, Suita, Osaka, Japan)

C0394 Association Between *EDAR* Gene Polymorphism and Non-syndromic Tooth Agenesis. H. FENG*, H. LIU (School of Stomatology, Peking University, Beijing, China)

S0395 JNK Dependency of Intercellular Junction Development in YD-10B cells. G.-Y. LEE*, H.-M. KIM (Oral Histology and Developmental Biology, Seoul National University, Seoul, Korea (the Republic of))

SC0396 Influences of Habitual Mouth-breathing on Taste Sensation. K. KIMURA*, K. SHIMAZAKI, K. SUGIMOTO, T. ONO (Orthodontic Science, Graduate School Tokyo Medical and Dental University, Tokyo, Japan)

S0397 BMP Signaling Regulates Cranial Suture Fusion Caused by Retinoic Acid. W. WANG*, M. CHEN, H. LI, B. CAI, H. HUANG (Guanghua School of Stomatology Hospital of Stomatology Sun Yat-sen University, Guangzhou, China)

Seq# 81 Thursday, 23 June 2016, 2 p.m. – 3:15 p.m.
Poster Session, Hall B

Dental Materials I: Ceramic-based Materials – Current Dental Ceramics: Mechanical Properties, Adaptation & Adhesion

0398 Non-destructive Evaluation of Microgaps Between Dentin and Ceramic Materials. N. SCOTTI*, C. ALOVISI, A. LUGANINI, D. PASQUALINI, E. BERUTTI (University of Turin, Turin, Italy)

C0399 Flexural Strength of New High-translucent Zirconia and Lithium Disilicate Ceramics With Two Specimen Dimensions. T. KOBAYASHI, J. CONEJO*, M. BLATZ, F. MANTE, E. ANADIOTI (Preventive and Restorative Science, University of Pennsylvania, Philadelphia, Pennsylvania, USA)

C0400 Effect of Surface Treatment of Lithium-Disilicate: Flexural and Shear-bond Strength. S. SINGHAL, T. HILL, O. NIHLAWI, S. ANTONSON*, G. TYSOWSKY (University of Buffalo/ivoclar Vivadent, Williamsville, New York, USA)

0401 The Influence of Material and Veneering on Fit of CAD-CAM-crowns. N. ABDULHAMEED, J.-F. ROULET*, C. SHEN (Restorative Dentistry, University of Florida, Gainesville, Florida, USA)

0402 Clinical Performance of NobelProcera/Procera Zirconia Implant Bridges: A Systematic Review. R. MEISTER*, A. HODOR (Clinical Research, Nobel Biocare Services AG, Zurich, Zurich, Switzerland)

0403 Marginal and Internal Misfit, Fracture Load, and Stress Distribution in Monolithic Zirconia-reinforced Lithium Silicate and Lithium Disilicate Crowns. A. DEL BEL CURY*, R. GOMES, C. SOUZA, E. BERGAMO, D. BORDIN (Piracicaba Dental School, University of Campinas, Piracicaba, Brazil)

SC0404 Fitness of the Nano-composite CAD/CAM Restorations. Y. YOO*, S.-H. PARK, Y.-J. SHIN, J.-S. PARK, B.-H. CHO, S.-H. BAEK (Department of Conservative Dentistry, Seoul National University, Seoul, Korea (the Republic of))

- E0405** A Systematic Review of Clinical Success of Ceramic Implants. C. ALAMANOS*, H. KNUETTEL, M. BEHR (Prosthodontics, Regensburg University Medical Center, Regensburg, Germany)
- SE0406** Aesthetic Outcomes of Zirconia Surface Using Different Sterilization Methods. A. HAN*, J.K.-H. TSOI, Z. CHEN, J. MATINLINNA (Dental Materials Science, University of Hong Kong, Hong Kong, SAR, Hong Kong)
- S0407** Does Etching of Glass-Ceramics Create an FGL? Initial Studies. G. MIRANDA*, B. NEO, V. THOMPSON (Operative Dentistry, UFMG, Belo Horizonte, Brazil)
- S0408** Internal Fit of Single Crowns Produced by CAD/CAM and Lost-wax Metal Casting Technique Assessed by the Triple-scan Protocol. B.E. DAHL*, H.J. RØNOLD, J.E. DAHL (Department of Prosthetic Dentistry, Institute of Clinical Dentistry, University of Oslo, Oslo, Norway)
- C0409** Structural Reliability of Lithium Disilicate-based Glass-ceramics. T.S. BAE*, S.M. BYEON, Y.R. LEE, T.T.D. NGUYEN, H.J. SONG, M.-H. LEE (Department of Dental Biomaterials, Institute of Biodegradable material and Oral Bioscience and BK21 plus project, School of Dentistry, Chonbuk National University, Jeonju, Korea (the Republic of))
- 0410** Chemical Durability of Pressable Lithium Silicate Glass Ceramics. H. YOKOHARA*, T. FUJIMOTO, G. MASHIO, T. HOSHINO, T. MIYAKE, M. YOSHINAGA, D. MORI, T. SATO, T. KUMAGAI (R&D Dept., GC Corporation, Tokyo, Japan)
- S0411** Development of Ion Exchangeable Glass-Ceramics for Dental Applications. A. ALZHRANI*, M. CATTELL, N. KARPUKHINA (Dental Physical science unit, Queen Mary University of London, London, United Kingdom)
- C0412** Randomized Clinical Trial of Implant-Supported Ceramic-Ceramic Posterior FDPs. J. ESQUIVEL-UPSHAW*, A. CLARK, L. GONZAGA, D. NEAL (Department of Restorative Dental Sciences Division of Prosthodontics, University of Florida, Gainesville, Florida, USA)
- E0413** Effect of Surface Modifications and Chewing Cycling on Monolithic Zirconia. F. OZER*, A. NADEN, V. TURP, F. MANTE, D. SEN, M. BLATZ (University of Pennsylvania School of Dental Medicine, Philadelphia, Pennsylvania, USA)

Seq#: 82 Thursday, 23 June 2016, 2 p.m. – 3:15 p.m.
Poster Session, Hall B

Dental Materials 2: Polymer-based Materials – Dental Materials: Polymer-based Materials IV

- S0414** Anti-asthmatic Medication's *in Vitro* Effect on Adhesive Restorative Materials. A. ZELMANOVICH, B. DA SILVA*, F. LO, M. NANDHA, C. EPSTEIN (James Cook University, Smithfield, Queensland, Australia)
- 0415** Characterization of Stickiness of Glass Ionomer Restoratives. K. CLAUSSEN, P. BRAUN, B. LACHERMEIER, J. SCHMIDT, H. HAUPTMANN, R. PEEZ, R. GUGGENBERGER* (3M Oral Care, Seefeld, Germany)
- C0416** Effect of Light Distance/Specimen Length on Flexural Strength of Resin-Composite. F. EL-ASKARY*, S.A. BOTROS, M. NASSIF, M. ÖZCAN (Operative Dentistry, Faculty of Dentistry-Ain Shams University, Cairo, Egypt)
- 0417** Dimensional Integrity and Mechanical Stability of a Novel Temporary Cement. A. FALSAFI*, T. TON, H. BUI, T. TRAN, J. OXMAN, J. KITTELSON, O. ALTHOFF (3M Oral Care, 3M, Saint Paul, Minnesota, USA)

- SC0418** Flexibility of Resin Splint Systems for Traumatized Teeth: *in Vitro*. J. PARK*, J.-H. SHIN, J.Y. LEE, S.-W. SHIN (Advanced Prosthodontics, ICDR, Korea university medical center, Seoul, Korea (the Republic of))
- S0419** Interfacial Adaptation of Bulk-fill Composites on Dentin Margin by Oct. R. MICHELOTTO TEMPESTA*, G. VENTURA, A. COMBA, A. LUGANINI, C. ALOVISI, E. BERUTTI, N. SCOTTI (surgical science, university of turin, Orbassano, Turin, Italy)
- 0420** Radiopacity and Material Interaction With Dentine of Selected Dental Materials. T. CHOI, J. CAMILLERI, J.K.-H. TSOI, J. MATINLINNA* (Dental Materials Science, University of Hong Kong, Hong Kong, SAR, Hong Kong)
- SE0421** Influence of Various Irradiation-processes on the Mechanical-properties of Nano-hybrid Composites. Z. KUTUK*, S. GURGAN, R. HICKEL, N. ILIE (Restorative Dentistry, Hacettepe University School of Dentistry, Ankara, Turkey)
- SC0422** Flexural Strength of Relined Thermoplastic Denture Base Resins. Y. SUN*, J.Y. LEE, S.-W. SHIN (Advanced Prosthodontics, ICDR Korea University Medical Center, Seoul, Korea (the Republic of))
- SE0423** Effect of Light Curing Distance to Compressive Strength of Bulk-fill Composite. A. SIDDIQA*, H. HERAWATI, A. AZIZAH (Dental Material, General Achmad Yani University, Bandung, Jawab Barat, Indonesia)
- C0424** Effects of Two Different Mediums on Different Restorative Materials. B. EFES*, C.B. SENGEZ, G. SENGUN, N. ALTAY, C. DORTER (Department of Operative Dentistry, Istanbul University Faculty of Dentistry, Istanbul, Turkey)

Seq#: 83 Thursday, 23 June 2016, 2 p.m. – 3:15 p.m.
Poster Session, Hall B

Dental Materials 5: Biocompatibility and Biologic Effects of Materials – Biological Effects of Dental Biomaterials

- 0425** Pulp-dentin Response to, RU-HBMI, an Experiment RMGI Prototype in Deep Cavity Preparation Porcine Teeth. P. THUNYAKITPISAL*, S. SONGSIRIPADAPBOON, W. BANLUNARA, N. THUNYAKITPISAL (Anatomy, Chulalongkorn University, Bangkok, Thailand)
- S0426** Human Dental Pulp Cells Responses to Apatite Precipitation on Dicalcium Silicate Cement. W.-Y. LAI*, T.-H. HUANG, M.Y. SHIE (School of Dentistry, Chung Shan Medical University, Taichung, Taiwan)
- S0427** Odontogenic Effect of Silicon, Calcium and Phosphorous on Normal Human Dental Pulpal Cells. J. ALSENAN*, E. PRINGA, L. CHOU (Boston University, Boston, Massachusetts, USA)
- S0428** Influence of Biodentine's Eluent Duration on Cell Proliferation and Mineralization. V. PHANG*, N. DUBEY, N.N. CHEN, V. YU, V. ROSA (Faculty of Dentistry, National University of Singapore, Singapore, Singapore)
- C0429** Histological Observations of Healing Surround Retro-filling Materials on Rat Molars. M. IGARASHI*, K. KITAJIMA, K. ARAI, H. IINO (School of Life Dentistry at Niigata, The Nippon Dental University, Niigata, Japan)
- 0430** Effectiveness of Phytosphingosine (PHS) in Tubular Occlusion in Dentine. S. ZEHRA, R. HILL, F. BIKKER, D. GILLAM* (Adult Oral Health, Barts and the London School of Medicine and Dentistry QMUL, Chelmsford, United Kingdom)
- 0431** Macrophage-mediated Osteogenic Differentiation Activation in Co-culture With Osteoblast on Calcium Silicate Materials. T.-H. HUANG*, M.Y. SHIE (Chung Shan Medical University, Taichung, Taiwan)

S0432 Co-delivery of Doxorubicin and MDRI-siRNA by Mesoporous Silica Nanoparticles Treats Resistant Oral Squamous Carcinoma. D. WANG*, X. XU, Q. TANG, B. SUN, W. BU, K. ZHANG, H. SUN (School and Hospital of Stomatology, Jilin University, Changchun, China)

S0433 Preparation of the Setting and Degrading Ca-Si-Mg Cement With Odontogenesis and Angiogenesis Differentiation on Human Periodontal Ligament Cells. F.Y. HSU*, T.-H. HUANG, M.Y. SHIE (School of Dentistry, Chung Shan Medical University, Taichung, Taiwan)

C0434 Poly(Butylene Succinate)-based Biomaterial-mediated Upregulation of Bone Morphogenetic Protein-2 in T Lymphocytes Enhanced *in Vitro* Osteogenesis. M. TOSO, W. SINGHATANADGIT* (Thammasat University, Pathum-Thani, Thailand)

S0435 Fibronectin Derived Oligopeptide Induced Erk/MAP Kinase Stimulates Osteoblasts Differentiation Through RUNX2 Stabilization. Y.D. CHO*, C.S. LEE, B. KIM, H.-M. RYOO, Y.-J. SEOL, Y.-M. LEE, I.-C. RHYU, Y. KU (Department of Periodontology, Seoul National University, Seoul, Korea (the Republic of))

0436 The Influence of Chitosan-ACP/HAP on Pulpal and Bone Cell Behaviors. Y.-L. LEE*, J.-W. YANG, J. CHAN (Graduate Institute of Clinical Dentistry, National Taiwan University, Taipei, Taiwan)

C0437 Platelet-Rich Fibrin Applications in Soft Tissue Augmentation. Z. YANMIN*, Z. YIDI, G. TIANQI, Z. TIANSHOU, C. SHUNLI (Implant center, hospital of Stomatology, Jilin University, Chang Chun, Jilin, China)

SC0438 Effect of Grape Seed Extract Against Biodegradation of Composite Resin-Dentin Shear Bond Strength. D. GENEROSA*, E. LATIEF, D. ASRIANTI (Conservative Dentistry, University of Indonesia, Jakarta, Indonesia)

S0439 Light-induced Cell Alignment and Detachment for Constructing Three-dimensional Vascularized Tissue. C. LIU*, M. YU, Y. ZHOU, K. CHENG, H. WANG (Hospital of Stomatology aff. to College of Medicine, Zhejiang University, Hangzhou, Zhejiang, China)

S0440 Biomechanical Effects of Maxillary Expansion on a Cleft Palate Patient. A. NGUYEN*, H.-F. LEE, C. HONG, P. HOANG, J. PHAM, K. TING (School of Dentistry, University of California - Los Angeles, Los Angeles, California, USA)

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Poster Session, Hall B

Dental Materials 8: Clinical Trials – Dental Materials:
Clinical Trials II

C0441 Clinical and Radiographic Evaluation of Pulpotomy in Primary Molars with a Modified Paste, Zinc Oxide-Eugenol, and Vitapex. X. CHEN*, J. ZHONG, H. ZHANG (Department of Pediatric Dentistry, First Dental Center, Peking University School and Hospital of Stomatology, Peking, China)

0442 Luting Strategies of Ceramic Crowns: A Randomized Controlled Clinical Trial. C. TORRES*, R. DI NICOLO, L. ELIA, D. AVILA, L. GONCALVES, A. LACERDA, F. FRATTES, A. BORGES (Department of Restorative Dentistry, UNESP - Sao Paulo State University, Sao Jose dos Campos, Sao Paulo, Brazil)

0443 Comparison of Bond Failure Rate of New Fluoride Releasing Adhesive (AdheSEoneF) and Conventional Adhesive (Transbond) – A Randomised Clinical Trial. A. KUMAR* (Orthodontics, Saveetha Dental college, Chennai, Tamil nadu, India)

C0444 Comparison of Two Universal Composites in Posterior Teeth: 12 Months Results. S. GURGAN*, U. KOÇ VURAL, Z. KUTUK, F. YALCIN CAKIR (Dept. Restorative Dentistry, Hacettepe University, Ankara, Turkey)

C0445 Comparison of Two Resin Composites on Diastema Closure: Four-Year Results. E. ERGIN, Z. KUTUK, S. AK OZTAS, F. YALCIN CAKIR*, S. GURGAN (School of Dentistry Department of Restorative Dentistry, Hacettepe University, Ankara, Turkey)

C0446 7 Years, Multicentre, Clinical Evaluation on 154 Permanent Restorations Made With a Glassionomer-based Restorative System. M. BASSO*, J.M. GO—E BENITES, A. IONESCU, C. TASSERA (Dental Clinic, University of Milan, IRCCS Galeazzi Orthopaedic Institute, Milan, Italy)

Seq#: 85 Thursday, 23 June 2016, 2 p.m. – 3:15 p.m.
Poster Session, Hall B

Diagnostic Sciences – Diagnostic Sciences V

C0447 Evaluation of Enamel Thickness in Different Levels by Using Cone Beam Computed Tomography. A. YAGCI, G. TÜRKER, H. KARAMEHMETOGLU, F. YAGCI*, A.O. ATILLA (Prosthodontics, Erciyes University, Faculty of Dentistry, Faculty of Dentistry, Kayseri, Turkey)

C0448 Relationship Between Carotid-Artery Calcification and Periodontal Status in Thai Population. S. THANAKUN*, S. PORNPRASERTSUK-DAMRONGSRI (Oral Medicine and Periodontology, Mahidol University, Faculty of Dentistry, Bangkok, Thailand)

SC0449 A Custom Ultrasound System Identified and Imaged Human Mental Foramina. B. SAINI*, M. CULJAT, R. SINGH, S. WHITE (Endodontics, University of California - Los Angeles, Los Angeles, California, USA)

S0450 A Comparative Study of the Examination Patterns of Panoramic Radiographs Using Eye Tracking Software: Pilot Study. A. BAHAZIQ*, R. FETEIH, F. JADU (orthodontic, king abdulaziz university. faculty of dentistry, Jeddah, Saudi Arabia)

SE0451 Osteogenic Differentiation of Induced Pluripotent Stem Cells From Dental Pulp Stem Cells. H. XIE, S. AGARWALLA*, V. ROSA (Faculty of Dentistry, National University of Singapore, Singapore, Singapore)

SC0452 A Novel Method Monitoring Osteogenesis and Osseointegration After Dental and Orthopedic Implantation – *In vivo* Nano-particle Near-Infrared Fluorescent Imaging. C.-C. LIN*, C.-C. LIN, L.-H. CHIU, J. BOWLEY, W.-F. T. LAI (Graduate Institute of Medical Sciences, Taipei Medical University, Taipei, Taiwan, Taiwan)

S0453 Inter-Rater Reliability of the FDI Criteria: Photographic Evaluation of Tooth-Colored Restorations. D. KIM, S. AHN*, S.-H. PARK (Department of Conservative Dentistry and Oral Science Research Center, Yonsei University College of Dentistry, Seoul, Korea (the Republic of))

SC0454 Comparative Evaluation of Dental Tubule Disinfection Using Propolis, Morinda Citrifolia and Aloe Vera. H. SUBBAIYAN*, T. THOMAS (Conservative dentistry and endodontics, Saveetha dental college, Chennai, Tamilnadu, India)

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Poster Session, Hall B

Education Research – Student Recruitment, Perceptions & Learning Behavior

- E0455** Effect of Gender and Background on Selection of Dental Students. M. VAN STEENBERGEN*, R. GORTER, A. FEILZER (Educational Institute, Academic Centre for Dentistry Amsterdam (ACTA), Amsterdam, Netherlands)
- 0456** Comparing Faculty, Non-academic and Lay Assessment at Multiple Mini-Interviews. A. PAU*, Y.S. CHEN, C.F. SOW, V. LEE, R. DE ALWIS (School of Dentistry, International Medical University, Kuala Lumpur, Malaysia)
- SE0457** Empathy Levels and Related Factors in Healthcare Profession Students. M. MADERA ANAYA*, L. TIRADO AMADOR, F. GONZALEZ, G. FÉTIS-NAVARRETE (Research Department at Dental school, University of Cartagena, Cartagena, Colombia)
- E0458** Do Students Prefer Community Research Placements or Oral Health Promotion?. J. KROON* (School of Dentistry and Oral Health, Griffith University, Gold Coast, Queensland, Australia)
- E0459** UK Medical Practitioners' Knowledge of Managing Dental Emergencies. C. LOUCA*, J. MAKWANA, P. FINE, A. LEUNG, B. BLIZARD (UCL Eastman Dental Institute, Eastman CPD, London, United Kingdom)
- S0460** The Knowledge and the Extent of Execution of Oral Hygiene in Undergraduate Dental Students. A. BANO*, G. KAARTHIKEYAN (dentistry, saveetha dental college, Chennai, Tamil Nadu, India)
- E0461** Towards Independence in Orofacial Pain Research – The UNC K12 Experience. P.F. LIM*, L. DIATCHENKO, W. MAIXNER (Center for Pain Research and Innovation, University of North Carolina, Chapel Hill, North Carolina, USA)
- S0462** Assessing Approaches for Learning Endodontic-Hand Skills: Limiting Errors Has Advantages. M. EL-KISHAWI*, G. TOWNSEND, P. CATHRO, R. MASTERS, T. WINNING (Dentistry, University of Adelaide, Adelaide, South Australia, Australia)
- E0463** Errorless Learning is Beneficial for Dental Drill Manipulation Skills. T. WINNING*, N. MALHOTRA, R. MASTERS (University of Adelaide, Adelaide, South Australia, Australia)
- E0464** Collaborative Learning: Understanding Dental Students' Perceptions and Experiences. A. ALMAJED*, V. SKINNER, R. PETERSON, T. WINNING (School of Dentistry, The University of Adelaide, Adelaide, South Australia, Australia)

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Poster Session, Hall B

Implantology Research – Implantology Research on Implant Materials

- S0465** Electrochemical and Microstructural Features of Titanium-%15 Zirconium Alloy Due to Oral Environment Simulations. L. FAVERANI*, V. BARÃO, J. FOGAÇA, F. VICENTE, C. GRANDINI, W. ASSUNCAO (Surgery and Integrated Clinic, Unesp - Aracatuba Dental School, Araçatuba, Brazil)
- 0466** Fiber-reinforced Composite as an Oral Implant Sbutment Material. A. ABDULMAJEED, M. KOBAYASHI*, L. LASSILA, P. VALLITTU, T. NÄRHI (Department of Oral and Maxillofacial Surgery, Meikai Uiversity, Sakado, Japan)

- S0467** Electrolytic Dissociation of Hydroxyapatite Coating of Dental Implants. A. KEHLENBACH*, J. KÜHNEMANN, W. NIEDERMEIER (Prosthetic Dentistry, University of Cologne, Cologne, Germany)
- S0468** Assessment of Implant Surface Debridement Using an Ink Model. C. YIP*, M. WEI, C. TRAN, L. WALSH (School of Dentistry, University of Queensland, Herston, Queensland, Australia)
- E0469** Saline or Argon-gas Passivation Enhances Osseointegration of Unloaded Blasted-surface Implants. W. DUNCAN*, A. SIDDIQI, J. GAY (School of Dentistry, University of Otago, Dunedin, New Zealand)
- 0470** Hydrothermal Fabrication and Characterization of Calcium Phosphate Anhydrous/chitosan Composites. K.-H. PARK, S.-J. KIM, Y.-H. JEONG, H.-J. SONG, Y.-J. PARK* (Dental Materials, Chonnam National University, Gwangju, Korea (the Republic of))
- 0471** Titanium Dental Implant-related Pathologies: A Retrospective Histopathologic Study. M. PAPARELLA, A. LOCHER, M. DOMINGO, M. GUGLIELMOTTI, R. CABRINI, D. OLMEDO* (Oral Pathology, School of Dentistry - University of Buenos Aires, Buenos Aires, Argentina)
- SC0472** Factors Affected the Maximum Torque Value of Implant Drivers. T. NISHIUCHI*, Y. SATO, N. KITAGAWA, T. OSAWA, A. ISOBE (Geriatric dentistry, Showa University, Tokyo, Kitasenzoku Ota ward, Japan)
- S0473** Surface Characteristics and Bioactivity of Minocycline-treated Ti-6Al-4V Alloy. J.-H. LEE*, H.-J. CHUNG, Y.-J. KIM, X. PIAO (Periodontology, Chonnam University, Gwangju, Korea (the Republic of))
- SC0474** Titanium Surface Treatments Affect Hydrothermal Deposition of Fluorapatite Coatings. A. MARIE*, M. KATSIKOGIANNI, T. DO, D. WOOD (School of Dentistry, University of Leeds, Leeds, West Yorkshire, United Kingdom)
- E0475** Enhanced Osseointegration of Silicon Substituted Hydroxyapatite (HASI) Coated Titanium Implants. S. ANIL*, J. VENKATESAN, H. VARMA, S.-K. KIM, E.P. CHALISSERRY (College of Dentistry, Jazan University, Jazan, Saudi Arabia)
- C0476** Effects of Geometrical Design on the Mechanical Properties of Temporary Orthodontic Devices. E. LAI* (School of Dentistry, National Taiwan University, Taipei City, Taiwan)
- S0477** Time Dependency With Ultrasonic Biofilm Removal for Implant Surfaces. C. TRAN*, N. MEREDITH, L. WALSH (School of Dentistry, University of Queensland, Herston, Queensland, Australia)
- SE0478** The Influence of Thread Types and Body Configurations on Implant Micromovement and Stress Distribution under Immediate Loading: A 3-Dimensional FEA. C. ZHOU, L. JIA*, Y. WEN, Z. ZHU, S.H. JUN, X. XU (School of Stomatology, Shandong University, Jinan, China)
- SC0479** Shape Optimization of Inverse Neck Tapered Implant for Various Bone Conditions. Y.-C. CHEN*, C.-H. HOU, R.-Y. LAI, Y.-C. CHEN, C.-L. LIN (Department of Mechanical Engineering, National Cheng Kung University, Tainan, Taiwan)
- 0480** Effect of Statin Osteogenesis Onto Osteoconductive Carbonate Apatite. T. MASUZAKI*, Y. AYUKAWA, M. NISHIMURA, K. KOYANO (Dept. of Oral and Maxillofacial Prosthodontics, KagoshimaUniversity, Kagoshima City, Japan)
- C0481** Surface Evaluation of Six Different Dental Implant Systems Using SEM. O. EKREN*, Y. UCAR, A. OZKOMUR, W. BRANTLEY, D. HAN (PROSTHODONTICS, CUKUROVA UNIVERSITY, Adana, Turkey)

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Poster Session, Hall B

**Microbiology / Immunology – Microbiology/Immunology-
Oral Streptococci and Candida albicans**

- S0482** Characterization and Biofilm Detection Among Clinically Important *Candida* Species. V.S. C.S.*, D.G. PRAKASAM (Saveetha Dental College, Chennai, Tamil Nadu, India)
- SE0483** Up-regulation of Specific Host Molecule Required for Endothelial Cell Internalization by *Streptococcus mutans*. M. OTSUGU*, R. NOMURA, K. NAKANO (Department of Pediatric Dentistry, Osaka University, Suita, Osaka, Japan)
- SC0484** The Collagen-binding Protein Cnm Promotes Adhesion to Heart Tissues. I. FREIRES*, A. AVILES-REYES, P. ROSALEN, T. KITTEN, P. SIMPSON-HAIDARIS, M. SWARTZ, P. KNIGHT, J. LEMOS, J. ABRANCHES (Department of Physiological Sciences, Piracicaba Dental School, University of Campinas, Piracicaba, Brazil)
- E0485** Amino Sugars Enhance Competitiveness of Beneficial Commensals With *Streptococcus mutans*. L. ZENG*, T. FARIVAR, R. BURNE (College of Dentistry - Oral Biology, University of Florida, Gainesville, Florida, USA)
- 0486** Contribution of Chloride Channel Permeases to Fluoride Resistance in *Streptococcus Mutan*. T. MURATA*, N. HANADA (Tsurumi University, Yokohama, Japan)
- S0487** Effects of Tea Extracts on Colonization Behaviours of *Candida Krusei*. Y. WANG*, L. SAMARANAYAKE (School of Dentistry, University of Queensland, Brisbane, Queensland, Australia)
- S0488** Cnm-positive *Streptococcus mutans* Strain Causes IgA Nephropathy in Rats. R. HATAKEYAMA*, S. NAKA, T. MISAKI, Y. TAKASHIMA, R. NOMURA, M. NAKANO, K. NAKANO (Osaka University Graduate School of Dentistry, Suita, Japan)
- S0489** *Pseudomonas* Quorum Sensing Augments *Candida albicans* Fluconazole Resistance: Proteomic Perspectives. H. BANDARA*, B. CHEUNG, L. SAMARANAYAKE (The University of Queensland, Herston, Queensland, Australia)
- 0490** Double Action Against Dental Caries by the Probiotic *Streptococcus Dentisani*. A. CAMELO, A. LOPEZ-LOPEZ, M. FERRER, A. SIMÓN-SORO, A. MIRA* (Genomics and Health, Center for Advanced Research in Public Health, Valencia, Spain)
- SE0491** Exploring the Oral Microflora of Preschool Children. W. REN*, Q. ZHANG, X. LIU, S. ZHENG, F. CHEN, T. XU (Preventive Dentistry, Peking University School and Hospital of Stomatology, Beijing, China)
- 0492** Solasodine Inhibits *Candida albicans* Adhesion at Sub-MIC Level. P.W.K. TSANG*, H.P. YANG, O.L.T. LAM (Technological and Higher Education Institute of Hong Kong, Hong Kong, Hong Kong)
- S0493** *Lactobacillus reuteri*-containing Probiotic Lozenges Consumption Reduces *Streptococcus-mutans* and *Porphyromonas-gingivalis* in Orthodontic Patients. V. HARTONO*, L. IDZNIMARJANI, D. IRAWAN, L. LUTHFI, A. WIDYARMAN (Microbiology, Faculty of Dentistry Trisakti University, Jakarta, Indonesia)
- 0494** *Streptococcus mutans* Induces Cytokines in HAECs via TLR2 and NOD2. E. NAGATA*, T. OHO (Department of Preventive Dentistry, Kagoshima University Graduate School of Medical and Dental Sciences, Kagoshima, Japan)

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Poster Session, Hall B

Neuroscience – Neuroscience Basic Research

- 0495** ATP Mediates Neuron-satellite Glia-microglia Signaling in the Rat Trigeminal Ganglion. H. IWAI*, E. KURAMOTO, A. YAMANAKA, T. GOTO (Department of Oral Anatomy and Cell Biology, Kagoshima University, Kagoshima, Kagoshima, Japan)
- 0496** IKK/NF- κ B-dependent Satellite Glia Activation Induces Spinal Cord Microglia Activation and Neuropathic Pain via Ganglioside-TLR2 Signaling. S.J. LEE* (Oral Physiology and Neuroscience, Seoul National University, Seoul, Korea (the Republic of))
- C0497** The Effect of Minocycline on Induced Glial Activation by Experimental Tooth Movement. T. DEGUCHI*, H. KAMIOKA, D.-G. KIM, H. FIELDS, T. TAKANO-YAMAMOTO, H. ICHIKAWA, T. YAMASHIRO (Division of Orthodontics, Ohio State University, Columbus, Ohio, USA)
- S0498** Effects of Hypotaurine on the Substantia Gelatinosa Neurons of the Trigeminal Subnucleus Caudalis in Young Mice. S.M. OH*, J. BHATTARAI, S.-K. HAN, S.-J. PARK (Department of Oral Physiology School of Dentistry, Chonbuk National University, Jeonju-si, Jeollabuk-do, Korea (the Republic of))
- 0499** The Role of GABA-ergic Neurons in the Trigeminal Root Ganglion. M. TAKAHASHI*, N. SATO, J. GOKITA, R. IDE, C. SAIKI, T. IMAI (Department of Physiology, The Nippon Dental University, School of Life Dentistry at Tokyo, Tokyo, Japan)
- SE0500** Central Noradrenergic System Inhibits Hyperpolarization-activated Currents in Proprioceptive Trigeminal Neurons. J. WON*, M. SAITO, S.B. OH, Y. KANG (Brain and Cognitive Sciences, Seoul National University, Seoul, Korea (the Republic of))
- E0501** Endogenous Voltage-gated Sodium Channels of ND7/23 Cells. J. LEE, F. YU*, S. KIM, H.-M. KIM (School of dentistry, Seoul National University, Seoul, Korea (the Republic of))
- 0502** Modulation of Purinergic Receptors in a Model for TMJ Hyperalgesia. D. BEREITER*, M. RAHMAN, R. THOMPSON, P. THAMMASUPAPONG, J. OLSON (Diagnostic & Biol Sci, U Minnesota School of Dentistry, Minneapolis, Minnesota, USA)
- S0503** Rat Odontoblasts May Use Glutamate to Signal Dentin Injury. Y.S. CHO*, C.H. RYU, J.H. WON, H. VANG, S.B. OH, W. MAH, Y.C. BAE (oral anatomy and neurobiology, School of Dentistry, Kyungpook National University, Daegu, Korea (the Republic of))
- S0504** The Abl-Interactor Abl Regulates Synaptic Development and Neuronal Survival via Inhibition of BMP Signaling. N. KIM*, K. HEO (Seoul National University, Seoul, Korea (the Republic of))
- 0505** Sex Differences in Response to Cool Temperatures in Mice. R. CAUDLE*, S. CAUDLE, A. AHN, J. NEUBERT (Oral and Maxillofacial Surgery, University of Florida, Gainesville, Florida, USA)
- 0506** Relative Expression Levels of Taste Receptors in Murine Tongue Papillae. H.-J. CHOI, S.-Y. KI*, K.-M. CHUNG, Y.-K. CHO, K.-N. KIM (College of Dentistry, Gangneung-Wonju National University, Gangneung, Gangwon-Do,

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Poster Session, Hall B

Oral Health Research – Oral & Systemic Health

- C0507** Influence of Fukushima Daiichi Nuclear Accident on Intraoral Area. M. YAMADA* (Homare-kai Medical Corporation, Date-shi, Fukushima, Japan)
- S0508** Tooth Loss is Associated With Subclinical Atherosclerosis Among Elderly Koreans. Y.-B. AHN*, M.-S. SHIN, B.-Y. CHOI, H.-D. KIM (Preventive and Social Dentistry, School of Dentistry, Seoul National University, Seoul, Korea (the Republic of))
- 0509** Relationship Between Periodontitis and Prognosis of Pancreatic Cancer. T. MARUYAMA*, T. TOMOFUJI, T. MACHIDA, T. YONEDA, H. MIYAI, H. MIZUNO, D. EKUNI, M. MORITA (Center for Innovative Clinical Medicine, Okayama University Hospital, Okayama, Japan)
- S0510** Randomized Trial on Oral Health Promotion Among Stroke Rehabilitation Patients. R. DAI*, C. MCGRATH, O. LAM, E. LO, L. LI (Periodontology and Public Health, Faculty of Dentistry, The University of Hong Kong)
- 0511** Prevention of Postoperative Pneumonia in Esophagectomy by Perioperative Oral Management. S. SOUTOME*, M. FUNAHARA, T. OHO, M. UMEDA (Perioperative Oral Management Center, Nagasaki University Hospital, Nagasaki, Japan)
- 0512** Relationship Between Occupational Stress and Subjective Symptoms of Oral Health. K. YOSHINO*, S. SUZUKI, Y. ISHIZUKA, N. SUGIHARA, H. KAMIJYO (Dept. of Epidemiology and Public Health, Tokyo Dental College, Tokyo, Japan)
- E0513** Oral Health Status of Employees Classified by Work Schedule. T. ZAITSU*, M. UENO, Y. KAWAGUCHI (Oral health promotion, Tokyo Medical and Dental University, Bunkyo-ku, Japan)
- 0514** The Acceptability of Primary Health-care Nurses Delivering Oral Health Messages. S. MOFFAT*, A. MELDRUM, W. AITKEN, D. COATES (Oral Sciences, University of Otago, Dunedin, Otago, New Zealand)
- S0515** Effect of Catechin on 5-fluorouracil-induced Tongue Oxidative Stress. H. MIYAI*, T. MARUYAMA, T. TOMOFUJI, T. AZUMA, T. YONEDA, H. MIZUNO, M. MORITA (Department of Preventive Dentistry, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama, Japan)
- SE0516** Association Between Work-related Stress and Oral Diseases. K. YAMAGUCHI*, T. FUKUIZUMI, J. KARAKI, T. NAKAHARA, T. HANATANI, S. AWANO, K. HIDAKA, T. NISHIHARA (Educational Cooperation Center, Kyushu Dental University, Kitakyushu, Fukuoka, Japan)
- S0517** Melatonin (MLT)-mediated Modulation of MicroRNA Transcription in Oral Cancers. M. FARNOUSH, S. SANDHU, K. KINGSLEY* (School of Dental Medicine, University of Nevada – Las Vegas, Las Vegas, Nevada, USA)

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Poster Session, Hall B

Oral Medicine & Pathology – Oral Medicine & Pathology VII

- 0518** Prevalence and Genotype Distribution of HPV in Korea. C.-H. LEE*, J.-K. KIM, J.-W. KIM (Department of Oral Pathology, College of Dentistry, Cheonan, Korea (the Republic of))

- S0519** Evaluation of a Novel Combined Therapy for Oral Cancer. D. HUI*, Z. TUMUR, C. GUERRA, J. LEWIS, B. HENSON (College of Dental Medicine, Western University of Health Sciences, Pomona, California, USA)
- SC0520** Mandibular Leiomyosarcoma of an 11 Year-old-child: Case Report. C. LACIN*, M. ULUSAN, B. BILGIÇ, F. YALCIN (Department of Periodontology, Istanbul University School of Dentistry, Istanbul, Turkey)
- E0521** Detection of Human Papillomavirus DNA in Intraosseous Ameloblastomas Among Indian Patients. K.K.R. EALLA*, P. RAMANI, S.G. SOORAPARAJU (Oral and Maxillofacial Pathology, MNR Dental College and Hospital, Sangareddy, India)
- S0522** Correlation of Metallothionein Immunoexpression and Pathogenesis of Benign Odontogenic Neoplasms. G. JAYARAJ*, P. LOGARAJ, P. RAMANI, P. PREMKUMAR, A. NATESAN, H. SHERLIN, A. RAMASUBRAMANIAN, K.R. DON (Oral and Maxillofacial Pathology, Saveetha Dental College, Chennai, Tamilnadu, India)
- S0523** Prevalence of Potentially Malignant Disorders of the Oral Cavity Among Tobacco Users in Chennai Population. K. THEENADHAYALAN*, J. JOSEPH, M. VALLI (Oral medicine and radiology, Saveetha Dental college and hospitals, Chennai, Tamil Nadu, India)
- 0524** 4-Methoxydalbergione Suppresses Growth and Induces Apoptosis in Human Osteosarcoma Cells *in Vitro* and *In vivo* Xenograft Model Through Down-regulation of the JAK2/STAT3 Pathway. K.-R. PARK*, H.-M. YUN, E.-C. KIM (Department of Oral and Maxillofacial Pathology, Kyung Hee University, Seoul, Korea)
- 0525** Ethanol Induces Fibroblast Senescence *in Vitro* Which Promotes EMT, Discohesion and Migration of Malignant Oral Keratinocytes. Y. HASSONA*, E. RIVERO, M. AHRAM, M. ZIHLIF, M. HIJJAWI, N. CIRILLO, E. PARKINSON, S. PRIME (Faculty of Dentistry, The University of Jordan, Amman, Jordan)
- 0526** Does Lack of Matriptase affect Dermal Mast Cell Infiltration After Chronic Exposure to UV Radiation?. N.M. HASSAN*, A. MORRELL, D. WILSON, S. BYRNE, N. PAINTER, G. HALLIDAY, G. LYONS (Dentistry, Charles stuart university, Orange, New South Wales, Australia)
- S0527** Development of a New Quality-of-Life Instrument for Oral Potentially Malignant Disorder Patients. J. TADAKAMADLA*, S. TADAKAMADLA, R. LALLOO, N. JOHNSON (School of Dentistry and Oral Health, Griffith University, Gold Coast, Queensland, Australia)
- S0528** Assessment of Oral Mucosal Changes Following Smokeless Tobacco Products Usage in Patients Reporting to Tertiary Care Centre, Chennai, Tamil Nadu, India – A Questionnaire Based Clinical Study. S. SHANMATHI* (saveetha dental college, Chennai, India)
- SC0529** Comparison of Efficacy of Different Stains Used in Exfoliative Cytological Smears From Oral Lichen Planus Patients – A Pilot Study. H. BALAJI* (Saveetha Dental College, Chennai, Tamil Nadu, India)

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Oral & Maxillofacial Surgery – Oral & Maxillofacial Surgery V

- S0530** Mechanisms on Anticancer Drug Delivery Using Receptor Targeted Microbubbles. F. HIRABAYASHI*, K. IWANAGA, T. OKINAGA, W. ARIYOSHI, W. CHAWEEWANNAKORN, T. NISHIHARA (Division of Infections and Molecular Biology, Department of Health Promotion, Kyushu Dental University, Kitakyushu, Fukuoka, Japan)

- C0531** Morphological Study of the Articular Disc and Capillary of the Retrodiscal Tissue in a Type 2 Spontaneous Diabetes Mellitus Rat Model. M. UEMURA*, I. TODA, W. KAWASHIMA, Y.R. FANG, A. TAKEMURA (Department of Anatomy, Osaka Dental University, Hirakata, Osaka, Japan)
- S0532** Research of Condylar Morphology in Patients of Prolonged Unilateral Posterior Teeth Loss With Cone-beam Computed Tomography. W. XU*, G. XU, L. WU (School of Stomatology, Zhejiang Chinese Medical University, Hangzhou, China)
- 0533** Assessment on Velopharyngeal Function and Speech During Temporary Mandibular Advancement. K. SHIN*, K. NAKAJIMA, J. MOON, L. MORENO-URIBE, M. KARNELL (Orthodontics, University of Iowa College of Dentistry, Iowa City, Iowa, USA)
- E0534** Pre-existing Periapical Inflammatory Lesion Exacerbates Tooth Extraction-induced BRONJ in Mice. M. SONG*, A. ALSHAIKH, T. KIM, S. KIM, C. LEE, M. DANG, K.-H. SHIN, M. KANG, N.-H. PARK, R. KIM (School of Dentistry, University of California - Los Angeles, Los Angeles, California, USA)
- SE0535** Production of Interleukin-34 in Mandibular Condylar Cartilage Cells Stimulated by Tumor Necrosis- α . L. WU*, G. XU, W. XU (School of Stomatology, Zhejiang Chinese Medical University, Hangzhou, Zhejiang, China)
- C0536** The Special Value of the Magdeburg Palatal Distractor for the Distraction and Alveolar Arch Management of a Prominent Premaxilla and Complete Bilateral Cleft Lip and Palate. T. STANARIUS*, C. ZAHL (Oral and Maxillofacial Surgery, University Hospital Magdeburg, Magdeburg, Saxony-Anhalt, Germany)
- C0537** Regeneration in Post-extraction Sockets Using Autologous Dental Pulp Stem Cells. I. ARTEAGOITIA*, E. RAMOS, L. BARBIER, M.A. IGLESIA, O. RODRÍGUEZ, J. MENDIOLA, G. SANTAMARÍA, J. SANTAMARÍA (Maxillofacial Group, Stomatology Department, BioCruces Health Research Institute, University of the Basque Country UPV/EHU, Bilbao, Bizkaia, Spain)
- 0538** Linear Measurement Accuracy of the 3D-pano Image. M. AZUMA*, T. FUKUI, H. YOSHIDA, Y. IIDA, Y. MURAMATSU, A. KATSUMATA (Department of oral surgery, Asahi University, Gifu, Japan)
- SC0539** Prevalence and Clinico-pathologic Feature of NUT Midline Carcinoma in the Oral Cavity: Retrospective Survey Using C52B1 Antibody. H. AIZAWA*, H. KURITA, T. SHIMANE, Y. LI (ORAL SURGERY, SHINSHU UNIVERSITY, Matsumoto, Japan)
- S0540** Prevention of SSI in Oral Cancer Surgery by Topical Tetracycline. M. FUNAHARA*, S. SOUTOME, M. UMEDA (Clinical Oral Oncology, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan)
- 0541** Correlation Between Renal Function and the Severity of Bisphosphonate Related Osteonecrosis of the Jaw (BRONJ) Patients. U.-K. KIM*, K.-H. KIM, H.-K. PARK (Department of Oral and Maxillofacial Surgery, Pusan National University, Yangsan, Yangsan, Yangsan)
- SE0542** The Effect of the Static Pressure on Expression of MMP-13 in Condylar Chondrocytes. G. XU*, L. WU, W. XU, Z. GU (School of Stomatology, School of Stomatology Zhejiang Chinese Medical University 548 Binwen St, Binjiang District Hangzhou 310053, Zhejiang, China, Hangzhou, China)

- C0543** Radiographic and Functional Evaluation After Conservative Treatment of Condylar Fractures in Children. Y. ZHAO* (Department of Pediatric Dentistry, Peking University Hospital of Stomatology, Beijing, China)
- C0544** Clinical Study of the Instant Whitening Efficacy of Marketed Toothpastes. J. SUN*, B. ZHONG, S. SRINIVASAN, A. GUPTA, M. MANTZOURANI (Unilever Oral Care, Shanghai, China)

Seq#: 93 Thursday, 23 June 2016, 2 p.m. – 3:15 p.m.
Poster Session, Hall B

Periodontal Research-Therapy – Periodontal Regeneration & Wound Healing

- 0545** Grp78 is Crucial for Cell Migration Induced by Amelogenin in a Human Periodontal Ligament Cells. T. KYOSUKE*, H. AKIYAMA, T. FUKUDA, T. SANUI, U. TANAKA, K. YAMAMICHI, T. TAKETOMI, F. NISHIMURA (Department of Periodontology, Kyushu University, Fukuoka, Fukuoka, Japan)
- C0546** Effect of Concentrated Growth Factors in the Treatment of Furcations in Human Mandibular Molars. J. QIAO*, J. DUAN, Y. ZHANG, Y. CHU, C. SUN (the first outpatient center, peking university school and hospital of stomatology, Beijing, China)
- S0547** Effect of Autogenous Tooth Bone Graft on Class II Furcation Defects in Dogs. K.H. KIM*, A.Y. CHO, J.Y. YANG, K.H. LEE, H.I. SHIN, S.J. YU, B.O. KIM (Periodontology, School of Dentistry, Chosun University, Gwang Ju, Korea (the Republic of))
- C0548** RNAi Mediated Silencing of Atp6ap1 Prevents Both Periodontal Bone Erosion and Inflammation in the Mouse Model of Periodontitis. Z. ZHU*, Y.-P. LI (Jiangsu Key Laboratory of Oral Diseases, Affiliated Hospital of Stomatology, Nanjing Medical University, Nanjing, China)
- C0549** Healing of Furcation Defects Following Treatment With PRG or GTR. F. DÖRI*, N. TARI, N. ARWEILER, Z. PAPP, B. PILIHACI, T. HUSZÁR, F. NÉMETH, A. SCULEAN (Periodontology, Semmelweis University of Medicine, Budapest, Hungary)
- SC0550** Treatment of Intrabony Defects With Emdogain; Results After 16-20 Years. J. BÄGESUND*, A. NILSSON, A. ZAMPELIS, A. STAVROPOULOS (Faculty of Odontology, Malmö University, Malmö, Sweden)
- S0551** Immature Osteoblast Derived From Micro-mini Pig for Periodontal Tissue Regeneration. V. SURESH*, K. HANDA, M. SAITO (Division of Operative Dentistry, Department of Restorative Dentistry, Tohoku University, Sendai, Japan)
- S0552** Spry2 Knockdown Enhances Proliferation and Migration but Reduces Differentiation of Periodontal Ligament Cells Through bFGF and EGF Stimulation. H. AKIYAMA*, U. TANAKA, T. SANUI, T. FUKUDA, T. KYOSUKE, K. YAMAMICHI, T. TAKETOMI, F. NISHIMURA (Department of Periodontology, Kyushu University, Fukuoka, Japan)
- 0553** Combination Therapy With rhBMP-2 and hPDLS Sheet Enhances Cementum Regeneration. J.-Y. PARK, T. YI, J.-H. YUN* (Department of Periodontology, School of Dentistry and Institute of Oral Bioscience, Chonbuk National University, Jeonju, Korea (the Republic of))
- SC0554** Ultra-morphological Analysis of the Tetracycline Solvents Influence on Root Demineralization. S. FERRONIKI*, A. SYAIFY, D. HERAWATI (Master Degree in Periodontics Clinical Dentistry, Faculty of Dentistry, Universitas Gadjah Mada, Sleman, Yogyakarta, Indonesia)

- SC0555** Effect of Periodontally Accelerated Osteogenic Orthodontics (PAOO) on Clinical Measures. K. KUMAGAI*, M. NUNN, M. LANG, T. MIYAMOTO (School of Dentistry, Creighton University, Omaha, Nebraska, USA)
- E0556** Post-Surgical Healing & Pain With Periodontally Accelerated Osteogenic Orthodontics (PAOO). M. NUNN*, K. KUMAGAI, M. LANG, T. MIYAMOTO (Periodontology, Creighton University, Omaha, Nebraska, USA)
- C0557** Increasing Amount of Corticision Did Not Affect Orthodontic Tooth Movement or Root Resorption, but Accelerated Alveolar Bone Resorption in Rats. H. HOTOKEZAKA*, T. KUOHAMA, M. HASHIMOTO, N. YOSHIDA (Department of Orthodontics and Dento-facial Orthopedics, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan)

Seq#: 94 Thursday, 23 June 2016, 2 p.m. – 3:15 p.m.
Poster Session, Hall B

Periodontal Research-Pathogenesis – Periodontal Research-Pathogenesis In Vivo

- 0558** Epithelium Regulates Connective Tissue Wound Healing Mediated by FOXO1. C. ZHANG*, J. LIM, D. GRAVES (Department of Preventive Dentistry, Peking University School and Hospital of Stomatology, Beijing, China)
- S0559** Effect of Tumor Necrosis Factor- α Antagonist on Alveolar Bone Loss in Diabetic Rats With Periodontitis. J.-H. KIM*, A. KIM, E.-J. BAK, Y. YOO (Oral biology, Yonsei University College of Dentistry, Seoul, Korea (the Republic of))
- 0560** Red Wine Consumption Decreases the Occurrence of Spontaneous Periodontitis and TNF- α Levels in Wistar Rats. J. CAVAGNI*, M. WAGNER, L. JESUS, E. GAIO, V. CARRARD, M. SANT'ANA FILHO, C. RÖSING (Periodontology, Federal University of Rio Grande do Sul, Porto Alegre, Brazil)
- S0561** Relationship Between MicroRNA-221/222 and Alveolar Bone Loss in Obese Mice. H. MIZUNO*, T. TOMOFUJI, D. EKUNI, T. YONEDA, H. MIYAI, M. MORITA (Department of Preventive Dentistry, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama, Japan)
- 0562** Mouse Models of Experimental Diabetic Periodontitis Induced by *Porphyromonas gingivalis*. Q. WANG, D. ZHANG, R. APRECIO, W. ZHANG*, Y. LI (School of Dentistry, Loma Linda University, Loma Linda, California, USA)
- SE0563** MRP8/14 Expression in Monocyte of Diabetes Mellitus With Periodontitis. A. SYAIFY*, S. SURYONO, M. SOESATYO (Department of Periodontics, Faculty of Dentistry, Universitas Gadjah Mada, Sleman, Yogyakarta, Indonesia)
- C0564** The Effect of Cathepsin-B Deficiency on Gingival Overgrowth in Mice. A. YAMASHITA*, R. ALSHARGABI, T. SHINJO, M. IWASHITA, H. MATSUNAGA, M. TSURUTA, Y. HASHIMOTO, F. NISHIMURA (Periodontology, Kyushu University, Fukuoka, Japan)
- S0565** Anti-HMGB1 Neutralizing Antibody Attenuates Cytokine Secretion and Progression of Periodontitis. C. YOSHIHARA*, K. YAMASHIRO, T. YAMAMOTO, H. IDEGUCHI, H. AOYAGI, M. SHIMOE, S. HONGO, M. KAWAMURA, K. LIU, M. NISHIBORI, S. TAKASHIBA (Department of Pathophysiology - Periodontal Science, Okayama University, Okayama, Japan)
- S0566** *Porphyromonas gingivalis* Lipopolysaccharide Promote Diabetic Nephropathy Through TLR2. K. KAJIWARA*, S. TAKATA, Y. HATAKEYAMA, H. ISHIKAWA, Y. SAWA (Orthodontics, Fukuoka Dental College, Fukuoka-shi, Fukuoka, Japan)

- S0567** The Effects of Optineurin on Periodontal Tissue Destruction. S. MATSUI*, N. MIZUNO, S. MATSUDA, M. TAKEWAKI, M. YAMAKAWA, M. KAJIYA, K. OUHARA, K. TAKEDA, T. IWATA, T. FUJITA, H. KURIHARA (Periodontal Medicine, Hiroshima University, Hiroshima, Japan)
- 0568** Key Roles of TLR2 in NASH Progression by P.g.-odontogenic Infection. H. FURUSHO*, A. NAGASAKI, S. SAKAMOTO, M. MIYAUCHI, T. TAKATA (Oral and Maxillofacial Pathobiology, Hiroshima University, Hiroshima, Japan)
- S0569** Tanshinone IIA Attenuates Atherosclerosis in *Porphyromonas gingivalis*-infected ApoE-/- Mice. Y. XUAN*, Y. CAI, Q.X. LUAN (Periodontology, Peking University School and Hospital of Stomatology, Beijing, China)
- S0570** Effects of Zoledronic Acid in Periodontitis by Molecular Imaging. H. IDEGUCHI*, T. YAMAMOTO, K. YAMASHIRO, M. SHIMOE, S. HONGO, C. YOSHIHARA, A. HIROAKI, M. KAWAMURA, S. TAKASHIBA (Department of Pathophysiology - Periodontal Science, Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama, Japan)
- S0571** Visfatin Regulates the Link Between Periodontal Disease and Rheumatoid Arthritis. D.-K. KIM*, G. LEE, W.-H. SONG, J.-H. RYU (School of Dentistry, Chonnam National University, Gwangju, Korea (the Republic of))
- C0572** Obesity Increases Hypothalamic Neuronal Response in LPS-induced Periodontitis in Mice. K.L. KANG*, S. HAN, H. LEE, I. SHIM, S. LEE (Periodontology, School of Dentistry, Kyung Hee University, Seoul, Korea (the Republic of))

Seq#: 95 Thursday, 23 June 2016, 2 p.m. – 3:15 p.m.
Poster Session, Hall B

Periodontal Research-Diagnosis/Epidemiology – Systemic Conditions & Periodontal Disease Epidemiology II

- E0573** Oral Conditions in Guatemalan Patients With Diabetes Mellitus Type II (DMT2). E. MILIAN*, C. RECINOS, D. GONZÁLEZ, R. AGUIRRE, R. PONCE, G. LEAL (Depto. Educación Odontológica, Universidad de San Carlos de Guatemala/ Facultad de Odontología, Guatemala, Guatemala)
- C0574** Periodontal Disease Among Community-Dwelling Diabetics. P. FAMILI*, D. HAY, S. STREIFF (Dept. of Periodontics and Preventive Dentistry, University of Pittsburgh, Pittsburgh, Pennsylvania, USA)
- 0575** Progression of Periodontal Disease Attributable to Cigarette Smoking: A 5 Year Population-based Longitudinal Study. A. HAAS*, J. ALBANDAR, R. OPPERMANN, C. RÖSING, C. SUSIN (Periodontology, Federal University of Rio Grande do Sul, Porto Alegre, Brazil)
- C0576** The Role of Subclass Immunoglobulin G Antibodies Against *Porphyromonas gingivalis* in Threatened Preterm Labor and Preterm Birth Cases. C. YE*, H. KOBAYASHI, S. KATAGIRI, Y. IZUMI (Department of Periodontology, West China Dental College, Sichuan university, Chengdu, Sichuan, China)
- S0577** Increased Alveolar Crestal Height and Tooth Loss in Older HIV-infected Women. G. KIM*, S. WADHWA, M.T. YIN (Orthodontics, Columbia University, NEW YORK, New York, USA)
- C0578** Clinical Periodontal and Microbiologic Parameters in Patients With Chronic Obstructive Pulmonary Disease. L. TAN*, C. PAN, X. TANG, Y. PAN (School of Stomatology, China Medical University, Shenyang, China)
- SE0579** Visfatin Comparison Among Individuals With and Without Obesity and Periodontitis. D. ARUNACHALAM*, S. VARGHESE, S. SHALINI (Saveetha Dental College, Chennai, India, Chennai, Tamilnadu, India)

S0580 Gingival Leptin Estimation Among Smokers and Non-smokers in Chronic Periodontitis. S. A*, K. M.A, P. O, S. M (Department of periodontics, Saveetha Dental College, Chennai, Tamil Nadu, India)

C0581 Tooth Loss Conditions in Chinese Patients With Periodontal Diseases, Hospital Based Big Data Analysis. D. SHI*, J. JIAO, H. MENG, Z. CAO (Department of Periodontology, Peking University School and Hospital of Stomatology, Beijing, China)

S0582 Serum and Saliva Biomarkers in Coronary Artery Disease and Periodontitis. L. LAHDENTAUSTA*, P. MÄNTYLÄ, T. TERVAHARTIALA, K. BUHLIN, S. PAJU, M. NIEMINEN, J. SINISALO, T. SORSA, P. PUSSINEN (Department of Oral and Maxillofacial Diseases, University of Helsinki, Helsinki, Finland)

S0583 Does Gingivitis and Lifestyle Factors Influence hs-CRP and IL6 in Adolescents?. V. PITCHIKA*, E. THIERING, A. WILLENBERG, R. HICKEL, M. STANDL, T. KOCHER, J. HEINRICH, J. KÜHNISCH (Department of Conservative dentistry and Periodontology, Ludwig-Maximilians-Universität München, Munich, Germany)

E0584 A Study on Oral Health and Quality of Life in Diabetic Patients. Y.Y. CHOI, J.-Y. LEE, E.-J. KIM, D.-I. PAIK, B.-H. JIN* (Dept. of Preventive & Social Dentistry, Seoul National University, Seoul,

S0585 Risk of Periodontal Disease in Patients With Inflammatory Bowel Disease. H.-C. YU*, T.-P. CHEN, Y.C. CHANG (School of Dentistry, Chung Shan Medical University, Taichung City, Taiwan)

S0586 Iron Intake is Associated With Periodontitis in Korean Young Women. J.-A. PARK*, B.-H. JIN (School of dentistry, Seoul National University, Seoul, Korea (the Republic of))

S0587 Periodontitis Links With EPC Counts in Patients With T2 Diabetes. Y. WANG*, H. LIU, Z. ZHEN, K.H. YIU, H.F. TSE, G. PELEKOS, L. JIN (Faculty of Dentistry, Periodontology, The University of Hong Kong)

C0588 Insulin Resistance is Associated With Progression of Oral Inflammation. O. ANDRIANKAJA, F. MU—OZ-TORRES*, K. JOSHIPURA, M. CAMPOS, C. PÉREZ (Center for Clinical Research and Health Promotion, University of Puerto Rico, San Juan, Puerto Rico, USA)

O589 VDR Gene Polymorphism and Smoking in Risk of Chronic Periodontitis. S. CHANTARANGSU*, K. TORRUNGRUANG (Department of Oral Pathology, Chulalongkorn University, Bangkok, Thailand)

S0590 The Association Between Periodontal Pathogens and Preeclampsia. H.-J. LEE*, B.-H. JIN (Dept. of Preventive & Social Dentistry, Seoul National University, Seoul,

C0593 A Preliminary Clinical Observation of Deep Discolored Anterior Teeth Restored by Zirconia Veneers. T.-F. ZHOU*, X. WANG, J. LIU (First Clinical Division, Peking University School of Stomatology, Beijing, China)

SC0594 Palatally-Worn Fatigued Veneered Incisors: A Comparative Evaluation of Fracture Resistance. S. PEERBHOY*, R. STEVENSON, S. WHITE (Restorative Dentistry, UCLA School of Dentistry, Los Angeles, California, USA)

SC0595 Relationship Between Clinical Experience and CAD/CAM Crown Fitness. H. CHEN*, M.-L. HSU (National Yang Ming University, Taipei, Taiwan)

S0596 WITHDRAWN

C0597 Modified Porcelain Veneers Used for Minor Defects in Anterior Teeth. L. WANG*, F. CAO, Q. WANG, D. TONG, Y. ZHOU (Dental Lab, School & Hospital of Stomatology, Peking University, Beijing, China)

Seq#: 97 Thursday, 23 June 2016, 3:30 p.m. – 4:45 p.m. Poster Session, Hall B

Behavioral, Epidemiologic, and Health Services Research – Oral Health Care

E0598 Provision of Oral Health Care to Children Under Seven Covered by Conditional Cash Transfer Program in Brazil. Is That a Reality?. K. PETROLA, I. BEZERRA, E. MENEZES, P. CALVASINA, M.V. SAINTRAIN, A. VIEIRA-MEYER* (Family Health, Fundacao Oswaldo Cruz, Fortaleza, Ceara, Brazil)

O599 The Influence of Social Deprivation as Measured by the Care Need Index (CNI) on Dental Caries in Swedish Children and Adolescents. A.-L. OSTBERG*, A. KJELLSTROM, M. PETZOLD (University of Gothenburg, Göteborg, Sweden)

O600 Oral Health Care Awareness Among Intensive Care Units Nurses at KAUH. N. AL-HAZMI*, J. JASTANIAH, R. ALMARHOUMI (King Abdulaziz University, Jeddah, Saudi Arabia)

O601 Self-perceived Barriers and Facilitators to Oral Health Among Homeless People. J. CSIKAR*, K. VINALL, G. DOUGLAS (Dental Public Health, The University of Leeds, Leeds, United Kingdom)

E0602 Dental Identification Card for Primary School Students. G. MONICA*, W. SUWINDER, H. POLI, I. SETIAWAN (Faculty of Dentistry, Maranatha Christian University, Bandung, Jawa Barat, Indonesia)

O603 Overtime Socio-demographic Inequalities in Changing Toothache Experience Among Australian Adults. K. PERES*, J. HARFORD, L. LUZZI, M. PERES (Australian Research Centre for Population Oral Health, Adelaide, South Australia, Australia)

S0604 Habitual Toothbrushing: Identifying Cues and Rewards. H. RAISON*, R. CORCORAN, R. HARRIS (University of Liverpool, Liverpool, United Kingdom)

E0605 Antimicrobial Prescribing by General Dental Practitioners in Wales, UK. E. BARNES*, A. BULLOCK, A. COPE, L. HOWELLS, J. COWPE, A. ROCKEY (School of Social Sciences, Cardiff University, Cardiff, United Kingdom)

E0606 Trends in Pain Medications Prescribed for Dental Care in the United States: 1996-2013. C. OKUNSERI*, E. OKUNSERI, A. SZABO, C. ZHENG, C. STEINMETZ (Marquette University, Milwaukee, Wisconsin, USA)

Seq#: 96 Thursday, 23 June 2016, 2 p.m. – 3:15 p.m. Poster Session, Hall B

Prosthodontics Research – Clinical & Laboratory Studies in Contemporary Ceramics

C0591 Reliability of Ceramic Restorative Materials. T. STIJACIC, C. ZHENG, B. FLINN, A. RAIGRODSKI, K.-H. CHUNG* (Restorative Dentistry, University of Washington, Seattle, Washington, USA)

O592 Resistance Form Surface Area Improvement With 2-Groove Supplementation. P. LEE*, J. BOWLEY, W.-F. LAI (Graduate Institute of Clinical Medicine, Taipei Medical University, Taipei, Taiwan)

E0607 Dental Casemix Computer Program for Multiple-visit Dental Procedures. Y. CHANTRAVEKIN*, S. BOONSONG, N. JIARAWAPEE, T. JENJARAT, M. SRIKHUM (Oral and Maxillofacial Surgery, Faculty of Dentistry, Chiang Mai University, Muang, Chiang Mai, Thailand)

0608 Training Course on Integrating Tobacco Interventions Into Oral Health Program. T. HANIOKA*, M. OJIMA, D. FU, H. OGAWA (Preventive & Public Health Dentistry, Fukuoka Dental College, Fukuoka, Japan)

Seq#: 98 Thursday, 23 June 2016, 3:30 p.m. – 4:45 p.m.
Poster Session, Hall B

**Cariology Research-Microbiological Studies/Biofilm –
Cariology Research-Microbiological Studies/Biofilm III**

C0609 Four Cariogenic-related Bacteria in Child's Initial and Mature Plaque. K. MITRAKUL* (Pediatric Dentistry, Mahidol University, Bangkok, Thailand)

E0610 Biofilm Formation by *Streptococcus mutans* Clinical Isolates with Sortase Defect. J. LAPIRATTANAKUL*, K. FUJITA, Y. TAKASHIMA, P. LEELATAWEEWUD, K. NAKANO, M. NAKANO (Oral Microbiology, Faculty of Dentistry, Mahidol University, Bangkok, Thailand)

S0611 The Correlation Between Oral Microbial Load, Saliva, and Caries Experience in Children. A. ALALI*, D. HAGGAG, A. ELLEPOLA, N. SALAKO (Kuwait University Faculty of Dentistry, Jabriya, Kuwait)

0612 Cariogenicity of *Propionibacterium acidifaciens* Isolated from Carious Dentin Lesions. J. OBATA*, T. OHO (Department of Preventive Dentistry, Kagoshima University Graduate School of Medical and Dental Sciences, Kagoshima, Japan)

S0613 *Streptococcus mutans* Biofilm Formation by Different Concentration of Sucrose. J.-N. CAI*, M.-H. DANG, J.-E. JUNG, J.-G. JEON (School of Dentistry, Chonbuk National University, Jeonju, Korea)

E0614 Glucan-binding Domain in GbpC of *Streptococcus mutans* Contributes to Binding to Type I Collagen. Y. TAKASHIMA*, Y. MORIKAWA, K. FUJITA, M. NAKANO (Department of Pediatric Dentistry, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama, Japan)

C0615 Factors Affecting Transmission of *Streptococcus mutans*. C. MITSUHASHI, N. KADO*, M. PUTERI, Y. OHARA, Y. IWAMOTO, K. KOZAI (Pediatric Dentistry, Hiroshima University, Hiroshima, Japan)

S0616 Anticariogenic Effect of *Chamaecyparis obtusa*. E.-H. KIM*, B.-I. PARK, Y.-W. JUNG, H.-S. PARK, J.-H. KIM, H.-J. NOH, K.-J. KIM, Y.-O. YOU, S.-Y. AN (Pediatric Dentistry, Wonkwang University Dental Hospital, Daejeon, Korea (the Republic of))

SC0617 Comparative Study of Dental Plaque Reduction Ability of Various Mouthwashes Using Quantitative Light Induced Fluorescence-Digital. T.G. KIM*, Y.L. KIM (Wonkwang Univ., Seoul, Korea (the Republic of))

C0618 Antibacterial of Terpenoid A Against *Streptococcus mutans* From Sarang Semut (*Myrmecodia pendens*) Plant. M. GARTIKA*, D. KURNIA, M. SATARI (Faculty of Dentistry, Padjadjaran University, Bandung, West Java, Indonesia)

SC0619 Antibacterial Effectivity of Triantibiotic Mixture Against *E. faecalis* Biofilm. H. SORAYA*, N. DJAUHARIE, R. MEIDYAWATI (University of Indonesia, Jakarta, Indonesia)

Seq#: 99 Thursday, 23 June 2016, 3:30 p.m. – 4:45 p.m.
Poster Session, Hall B

Craniofacial Biology – Clinical Orthodontics

SC0620 Effectiveness of Space Closure by Clear-aligners Using Two Attachment Types. T. EL-BIALY*, S. KHAWATMI, A. ALOBEID, M. SIMON, C. BOURAUDEL (University of Alberta, Edmonton, Alberta, Canada)

C0621 Force Delivery From Various Forms of Nickel-titanium Preformed Orthodontic Archwires. N. SAZE*, K. ARAI, T. MIYASAKA, K. TOCHIGI (Nippon Dental University, Tokyo, Japan)

SC0622 Influence of Orthodontic Appliance-derived Artifacts on 3-T MRI Movies. E. OZAWA*, E. HONDA, K. SHIMAZAKI, H. OHMORI, T. KURABAYASHI, T. ONO (Graduate School, Orthodontic Science, Tokyo Medical and Dental University, Tokyo, Japan)

0623 Alveolar Bone Growth Accommodates Dental Arch Expansion During Adolescence. H. KWON*, E.D. LOW, B.C. TEE, Z. SUN (Chonnam National University, Seoul, Korea (the Republic of))

0624 Root Resorption Associated With Canine Retraction Treatment. J. CHEN*, F. JIANG, S. LI, K. KULA, H. GU, Y. DU, G. ECKERT (Mechanical Engineering, Indiana University Purdue University Indianapolis, Indianapolis, Indiana, USA)

S0625 Decrowding efficiency Between Tubular Coaxial NiTi and Super Elastic NiTi Arch Wires in Mandibular Crowding – A Randomized Control Trial. N. KUMAR*, R.J. MICHEAL, S. SUNDARI (Saveetha Dental College, Chennai, India)

0626 Reproducibility of Smiling Efforts Using 3D Facial Topograph. C. TANIKAWA*, K. TAKADA (Department of Orthodontics and Dentofacial Orthopedics, Osaka University, Osaka, Japan)

0627 Changes in Spee-Curve Among Teenagers From 13 to 18 year-old. A. NGUYEN* (Faculty of Odonto-Stomatology, Dental Basic Sciences, University of Medicine and Pharmacy Ho Chi Minh city, Ho Chi Minh city, Viet Nam)

E0628 Longitudinal Cephalometric Study of Untreated Subjects With Different Facial Types. H. OH*, S. BAUMRIND, R. SHERWOOD (University of the Pacific, San Francisco, California, USA)

S0629 Biomarkers and Orthodontics. V. LEE*, M. GILL, N. EDALAT, M. TOLAROVA, M. TOLAR (School of Dentistry, University of the Pacific, San Francisco, California, USA)

C0630 Masticatory Muscle Duty Factors Larger in Brachyfacial Than Dolichofacial Adolescents. L. IWASAKI*, P. COVINGTON RIDDLE, A. WEBER, H. LIU, Y. LIU, J. NICKEL (School of Dentistry, University of Missouri - Kansas City, Kansas City, Missouri, USA)

0631 Morphological Analysis of the Occlusal Surface of Maxillary Molars in Koreans. H.-I. YOO, D.-W. YANG, M.-Y. LEE, M.-S. KIM, S.-H. KIM* (Oral Anatomy, Dental School, Chonnam National University, Gwangju, Korea (the Republic of))

0632 Performance of a New Toothbrush for Orthodontic Patients: Pilot Study. F. MARICHI, A. MALAGON-WINTERGERST*, A. WINTERGERST, R. RUIZ-DÍAZ, T. REYES-GARCÍA (Universidad Nacional Autónoma de México, Mexico City, Mexico)

S0633 Comparison of Dentoskeletal Changes in Skeletal Class II Cases Using Two Different Fixed Functional Appliances - Forsus Fatigue Resistant Device and Powerscope Class II Corrector. R. VARGHESE*, A. KUMAR (Orthodontics, Saveetha Dental College, Chennai, Tamil nadu, India)

0634 Assessment of 3-D Hemimandible Boundary Shape Differences Using Elliptical Fourier Analysis and Procrustes Superimposition Methods. P. LESTREL*, C. WOLFE, H. KIM, W. MOON (Anthropology, UCLA, Van Nuys, California, USA)

SC0635 Numerical Anomalies and Relationship With Malocclusion in Cambodian Orthodontic Patients. S.O. TRAK*, T. LY, C.C. LING (University of Health Sciences, Phnom Penh, Cambodia)

C0636 3D Soft Tissue Changes After 2-jaw Orthognathic-surgery. Y. CHANG*, L. CEVIDANES, S. HUJA, A. RUELLAS, M. YATABE (orthodontic department, Kaohsiung Chang Gung Memorial Hospital, Kaohsiung, Taiwan)

C0637 Facial Analysis of Changes in Adolescent and Adulthood – Differences in Caucasian and African Americans. C.H. KAU*, J. LI, N. ABOU KHEIR, T. ABOU SALEH (School of Dentistry, Department of Orthodontics, University of Alabama at Birmingham, Birmingham, Alabama, USA)

C0638 Morphological Characteristics of Skull-face Among 5-year-old Children. L. NGUYEN* (Faculty of Odonto-Stomatology, University of Medicine and Pharmacy, HoChiMinh City, HoChiMinh, Viet Nam)

Seq#: 100 Thursday, 23 June 2016, 3:30 p.m. – 4:45 p.m.
Poster Session, Hall B

Dental Materials 2: Polymer-based Materials – Dental Materials: Polymer-based Materials VI

0639 Effects of Viscosity of Silicone Impression Materials on the Accuracy of Working Model for Implants. H.-W. PARK, M.-H. OH*, W.-H. KIM, B.-S. LIM (Vericom Research Institute, Anyang, Korea (the Republic of))

SC0640 Silk Fibroin Particle Enhances Stability and Sustained Release of Bone Morphogenetic Protein-2. B. KIM*, W.J. KIM, W.-J. YOON, Y.D. CHO, R. ISLAM, H.-S. BAE, H.-R. SHIN, H.-M. RYOO (Molecular Genetics, School of Dentistry and Dental Research Institute, Seoul National University, Seoul, Korea (the Republic of))

0641 Repair Bond Strength of Aged Composite Using Argon Plasma. W. NEGREIROS, A.P. AYRES, R. HIRATA, P. COELHO, J. FERRACANE, B. LOPES, M. GIANNINI* (Department of Restorative Dentistry, University of Campinas, Piracicaba, SP, Brazil)

0642 Evaluation of Impression Accuracy With Penetration Depth Under Moisturized Condition. K. HIRANO*, D. USUKI, T. UENO, T. KUMAGAI (GC Corporation, Tokyo, Japan)

S0643 In Vitro Cytotoxicity of Provisional Resin Materials on Human Dental Pulp Cells. S.K. JUN*, H.-H. LEE, J.-H. LEE (dental biomaterials, Dankook university, Chungcheongnam-do, Cheonan-si, Korea (the Republic of))

0644 Effect of Dentin Desensitizers on the Exposed Dentin After Ultrasonic Scaling. B.-S. LIM*, J.-H. CHO, M.-H. OH, I.-B. LEE (Dental Biomaterials Science, Seoul National University, Seoul, Korea (the Republic of))

0645 Wear and Surface Hardness of Composite Blocks for CAD/CAM System. W.-H. KIM*, M.-H. OH, B.-S. LIM, I.-B. LEE (Vericom Research Institute, Anyang, Korea (the Republic of))

0646 Polymerisation and Stability of Remineralising, Antibacterial Dental Composite Pastes. W. XIA, P. ASHLEY*, A. YOUNG (Unit of Paediatric Dentistry, UCL Eastman Dental Institute, London, United Kingdom)

0647 Comparison of the Digital Light Processing of Flowable Resin Composites With the Milling of Ceramic Block. H.-J. MOON*, D.-H. SHIN (College of Dentistry, Dankook University, Chunan, Choong-Nam,

0648 Homogenization-analysis of Influences of Filler-shapes on Physical Properties of Composites. S. YAMAGUCHI, T. ABE*, T. SAKAI, S. IMAZATO (Department of Biomaterials Science, Osaka University Graduate School of Dentistry, Suita, Japan)

S0649 The Preparation and Characterization of Aspirin Modified BMP-2 cDNA Loaded PLGA Microspheres. C. QIAO*, J. SONG, J. LIU, Y. HU, H. SUN, B. YANG (stomatology, JILIN university, Changchun CITY, JILIN PROVINCE, China)

0650 Degree of Conversion and Hardness of a Silorane Based Composite. C. FRANCCI*, M. BORGES ARAÚJO, A. NISHIDA, L. CARDOSO YAMASAKI (Biomaterials and Oral Biology, University of São Paulo, São Paulo, SP, São Paulo, Brazil)

0651 Resin Infiltration of Natural and Artificial Root Caries Lesions. W. ARNOLD*, V. MAAS, F. WEISSENBERG, M. BIZHANG (Department of Biological and Material Sciences in Dentistry, Witten, Germany)

C0652 Effect of Thickness/Light Distance on Flexural Strength of Bulk-Fill Resin-Composites. M. ÖZCAN*, S. ADEL, M. NASSIF, F.S. ELASKARY (Center for Dental and Oral Medicine, Dental Materials Unit, University of Zurich, Zurich, Switzerland)

S0653 Effect of Anti-caries Dental Adhesive on the Multi-species Biofilms. S. WANG*, Y. GE, X. ZHOU, B. LI, H. XU, M. WEIR, B. REN, M. LI, L. CHENG (Department of Operative Dentistry and Endodontics, Sichuan University, Chengdu, China)

Seq#: 101 Thursday, 23 June 2016, 3:30 p.m. – 4:45 p.m.
Poster Session, Hall B

Dental Materials 5: Biocompatibility and Biologic Effects of Materials – Physical & Chemical Functionalization of Dental Materials

C0654 Enhanced Protective Effect of Ion-Releasing S-PRG Coatings Containing Theobromine. S. KUSAKABE*, M. HOTTA, T. NAKAMOTO, H.R. RAWLS (Department of Comprehensive Dentistry, University of Texas Health Science Center at San Antonio, USA)

E0655 Surface Grafted Adenosine Diphosphate Affects Platelet Functions. Y. LV*, R. ZHANG, S. WEI, H. ZHANG (Department of Stomatology, BeijingAnzhenHospital, Capital Medical University, Beijing, China)

S0656 Gene Expression of Leukoplakia Cells After Influence of Electric Field. M. KOPP*, P. SACKS, W. NIEDERMEIER (Prosthetic Dentistry, University of Cologne, Cologne, Germany)

SE0657 Collagen Binding Peptide Modified-injectable Scaffold for New Bone Formation. J.S. SUH*, B.S. JO, J.-M. KIM, Y. LEE, J.Y. LEE, K.D. PARK, C.P. CHUNG, Y.J. PARK (Dentistry, Seoul National University, Seoul, Korea (the Republic of))

SC0658 The Effect of Zirconium Dioxide Implant Surface Characteristics on Osseous Healing in Diabetes: An Experimental Pilot Study in Pigs. R. LEE*, Z. DU, Y. XIAO, F. YAN, S. IVANOVSKI (School of Dentistry, Griffith University, Southport, Queensland, Australia)

S0659 Surface Characteristics and Biocompatibility of Anodic Calcium and Phosphate Coatings on Mg-Ca-Mn Alloy. H.-K. KIM*, B.-A. LEE, Y.-J. KIM, H.-J. CHUNG (Department of Periodontology, School of Dentistry, Chonnam National University, GWANGJU, Korea (the Republic of))

C0660 The Biological Properties of Dental Implant Surface Modified With Novel Technique. W.-Y. TSENG*, W.-C. LIN, S.-H. HSU, M.-H. TSENG, L.-D. LIN, T.-M. WANG, J.-S. WANG, M.-S. LEE (School of Dentistry, National Taiwan University, Taipei, Taiwan)

SC0661 Glass Hybrid, but Not Calcium Hydroxide Remineralized Artificial Residual Caries Lesions *in Vitro*. A. AL-ABDI, S. PARIS, F. SCHWENDICKE* (Dept for Operative Dentistry, Charite University, Berlin, Germany)

Seq#: 102 Thursday, 23 June 2016, 3:30 p.m. – 4:45 p.m.
Poster Session, Hall B

Dental Materials 4: Adhesion – Effect of Pre-treatments & Application Mode on Dental Adhesion

C0662 Practitioners' Adherence to Instructions When Using Dental Adhesives. M. DEGHANPOUR*, A. LEUNG, C. LOUCA, B. BLIZARD (University College London Eastman Dental Institute, London, United Kingdom)

SC0663 Influence of Curing Protocol on Bond Strength of Self-etching Adhesives. S. BOTROS*, M. NASSIF, F. EL-ASKARY (Operative Dentistry, Faculty of Dentistry, Ain Shams University, Cairo, Egypt)

C0664 Effect of Agitation Methods on Dentin Bond Strength of HEMA-free Dentin Adhesive. J.-H. JANG*, D.-S. KIM (Conservative Dentistry, Kyung Hee University Dental Hospital at Gangdong, Seoul, Korea (the Republic of))

SE0665 Effects of Ultrasonic Instruments on Enamel and Dentine Surface Bonding. D.W.S. CHEW*, V. BENNANI, N. CHANDLER, B. LOWE, A. GRAY, J. AARTS (Dental School, University of Otago, Dunedin, North Dunedin, New Zealand)

E0666 Bond Strength of a Universal-Adhesive to Bleached & Desensitized Enamel. C. SEVIK, Z. KUTUK, N. ATTAR*, S. GURGAN (Restorative Dentistry, Hacettepe University School of Dentistry, Ankara, Turkey)

SC0667 The Effect of Blood Decontamination Procedures on Bond Strength to Etched Dentin. D. LEE*, S. HONG, S. LEE, S. PARK (Department of Conservative Dentistry, School of Dentistry, Wonkwang University, Iksan, Jeollabuk-do, Korea (the Republic of))

0668 Effect of Silane Dwelling Times on the Shear Bond Strength. R. NUNEZ*, B. SUH, L. CHEN (Research and Development, BISCO Inc., Schaumburg, Illinois, USA)

0669 Performance of a Metal Salt Based Enamel / Dentin Etchant. T. BOCK*, D. CATEL (R&D Adhesives, Ivoclar Vivadent, Schaan, Liechtenstein)

C0670 The Use of Air-blast to Test the Sealability of Dentine. K. KIJSAMANMITH*, P. CHIANSONG, N. VONGSAVAN (Faculty of Dentistry, Mahidol University, Bangkok, Thailand)

E0671 Effect of Storage Time on Microtensile Bond Strength of Self-adhesive and Multi-step Resin Cements to Dentin. J. BAUER*, E. CARVALHO, A. LOGUERCI, C. CARVALHO, A. MACIEL (Dentistry, Universidade Federal do Maranhão, São Luis, MA, Maranhão, Brazil)

S0672 Assessment of Debonded Interface After Thermocycling by Optical Coherence Tomography. M.N. LUONG DAO*, Y. SHIMADA, A. SADR, J. TAGAMI, Y. SUMI (Cariology and Operative Dentistry, Tokyo Medical and Dental University, Tokyo, Japan)

C0673 Bonding Properties of Self-adhesive Resin Cement in Self-cure Mode. A. SUGAWARA*, S. FUKUSHIMA, A. ARITA, T. KUMAGAI (R&D Dept., GC Corporation, Tokyo, Japan)

0674 Influence of Different Endodontic Irrigants on Bond Strength of BioRoot Root Canal Sealer. M. ROGGENDORF*, F. KOC, F.-J. FABER, H. ROGGENDORF, A. BRAUN, R. FRANKENBERGER (Operative Dentistry and Endodontology, University of Marburg, Marburg, Germany)

0675 Effects of Polyacrylic Acid on Properties of GIC Cement. Y.Z. KIM*, M.-H. OH, S.C. HONG, H.K. JANG, M.S. KWAK (R&D CENTER, VERICOM CO., LTD., Anyang-Si, Gyeonggi-Do, Korea (the Republic of))

C0676 Biocompatible Nanostructured Solid Adhesives for Soft Tissues. M. OKADA*, A. NAKAI, T. MATSUMOTO (Department of Biomaterials, Okayama University, Okayama, Japan)

SE0677 Effect of Primers on Shear Bond Strength Between Denture Base Acrylic Resin and Gingiva-shade Composite Resin. B.-W. PARK*, Y.-W. IM, S.-C. KIM, J.-H. LEE, H.-H. LEE (Dental Biomaterials, Dankook University, Cheonan, Korea (the Republic of))

Seq#: 103 Thursday, 23 June 2016, 3:30 p.m. – 4:45 p.m.
Poster Session, Hall B

Dental Materials 6: Instruments and Equipment – Light Curing & Miscellaneous Devices/Instruments

C0678 Marginal Fitness of Inlays Based on Omnicam Digital Impressions Taken Under Simulated Intraoral Conditions. Y. LIU* (Peking University School and Hospital of Stomatology, Beijing, China)

C0679 Dental Microscope Filters Improving Visibility During Light-curing-composite Application. T. LANG*, A. HALVES, R. KENSMANN, B. JENNES, P. GAENGLER (ORMED – Institute for Oral Medicine at the University of Witten/Herdecke, Witten, Germany)

0680 Evaluation of the Bluephase N Curing Light. R. PRICE*, J. HARLOW, B. SULLIVAN (Dept. of Clinical Dental Sciences, Dalhousie University, Halifax, Nova Scotia, Canada)

S0681 Deterioration of LED Light-polymerization Units in Toronto Private Dental Offices. D. KOJIC*, O. EL-MOWAFY, W. EL-BADRAWY, R. PRICE (Department of Restorative Dentistry, University of Toronto, Toronto, Ontario, Canada)

0682 Radial Cure of a Composite When Photactivated by Blue and Violet Light Emission. I. CORREA*, F. RUEGGERBERG (Prosthetic & Dental Materials, Universidade Federal do Rio de Janeiro, Rio de Janeiro, Rio de Janeiro, Brazil)

C0683 Tooth Sensitivity to Composites Polymerized by a Prototype Curing Unit. D. INDRANI*, L. KUSDHANY, A. SODRI (Dental Materials Science, University of Indonesia, Jakarta, Indonesia)

S0684 Evaluating the Accuracy of Commercial Dental Radiometers. A. AL-TAIE*, K. DAVDA, J. KANG, D. WOOD (Restorative Dentistry Department, School of Dentistry, University of Leeds, Leeds, United Kingdom)

0685 Effect of Sterilization on Multiple-Use Polishing Instruments for Composites. S. MANSOUR*, T. BENSEL, H.-P. WEBER, C. ARNOLD, F. BEUER, J. SETZ, A. BOECKLER (Charité University Medicine Berlin, Berlin, Germany)

S0686 Manual Versus Electric Tooth Brushing: A Comparative Study. A. PAUL*, F. ATTIAS, M.-F. BERTRAND, J. LAMURE, L. LUPI-PEGURIER (Oral Surgery, Université de Nice, Nice, France)

Implantology Research – Implantology Research on Dental Implant Surgery

- C0687** Evaluation of a Sinus-protective technique for Implant Placement. K.-M. CHANG*, K.-C. CHANG (Dept. of Periodontics, Rutgers School of Dental Medicine, Newark, New Jersey, USA)
- SC0688** Stability of Short vs. Long Implants in Different-leveled Sinus Elevation. J.-Y. HONG*, S.-H. KIM, H.-C. LIM, S.-I. SHIN, S.-Y. SHIN, J.-H. CHUNG, Y. HERR (Department of Periodontology, School of Dentistry, Kyung Hee University, Seoul, Korea (the Republic of))
- SC0689** Correlations Among Various Methods of Evaluating the Bone Quality in Dental Implant Sites. S. LEE*, D. JO, Y. YI (Section of dentistry, Seoul national university Bundang hospital, Incheon, Korea (the Republic of))
- 0690** Investigating Implant Stability Parameters With Different Implants in Sawbone Blocks. T.-M. WANG*, H.-Y. FAN, T.-C. YANG, L.-D. LIN (School of Dentistry, National Taiwan University, Taipei, Taiwan)
- C0691** Influence of Dental Implantation on Oral Bone Quality. D. LEE*, D.-G. KIM, E.-S. MOON, K. STEPHEN (Restorative Sciences and Prosthodontics, The Ohio State University College of Dentistry, Columbus, Ohio, USA)
- C0692** The Effect of GBR Applied in Alveolar Ridge Preservation. Y. WEN, X. XU, T. JIA*, Y. ZHANG (School of Stomatology, Shandong University, Jinan, China)
- C0693** Accuracy of Dental Implant Placement Based on Surgical Template or Free-hand in Academic Standardized Model Setting. D.W. KAO, K.-Y. HUANG*, C.-L. LAN, Y.-S. HUANG, M.-L. HSU (National Yang Ming University, Taiwan, New Taipei City, Taiwan)
- SC0694** Sinus Elevation With Implant as Tentpole Without Any Substitute: RCT. A. KAVARTHAPU*, D. SIVA KUMAR, N. JAYAKUMAR, G. KAARTHIKEYAN (Department of Periodontics, Saveetha Dental College, Ongole, Andhra Pradesh, India)
- C0695** RISK OF LABIAL PLATE PERFORATION AND AESTHETIC Risk in the Maxillary Anterior: Effect of Implant Diameter and Prosthetic Design. J. SIM*, M. CHEN, G. SOH, K.Y. ANG, R. ESGUERRA, J.-H. FU (National University of Singapore, Singapore, Singapore)
- SC0696** Implants With Sinus Augmentation- The Merit of Bone Grafting? A Systematic Review. K. FAWZY EL-SAYED*, D.E. SLOT, S. NASR, S. BAHAA, C. DORFER (Conservative Dentistry and Periodontology, Uniklinikum Schleswig-Holstein-Campus Kiel-Germany, Kiel, Germany)
- C0697** Topographic Analysis the Relationship Between Maxillarysinus Floor and Posterior Tooth Roots: A Cone-beam Computed Tomography Study. X. XU*, Y. WEN, Y. ZHANG, L. JIA (School of Stomatology, Shandong University, Jinan, China)
- C0698** Crestal Bone Levels around Immediate Implants and their Stability after Using Platelet Rich Fibrin and Allograft as Graft Materials. G. PRUTHI*, A. DHIMAN, V. JAIN (Prosthodontics, Center for Dental Education and Research, All India Institute of Medical Sciences, New Delhi, Delhi, India)
- SC0699** Evaluation of Oxidative Stress in Patients Undergoing Dental Implant Surgery: An *in Vivo* Study. S. SHARMA*, P. K.B. (Prosthodontics, Saveetha dental college, Chennai, Tamil Nadu, India)

Microbiology / Immunology – Microbiology/Immunology- Oral Immunology & Inflammation

- 0700** Unique Sublingual Dendritic Cell State Induces Tolerance by Sublingual Immunotherapy. M. AZUMA*, S. KANG, T. OHNO, C. ZHANG (Molecular Immunology, Tokyo Medical and Dental University, Bunkyo-ku, Tokyo, Japan)
- E0701** Interleukin-33 Up-regulates Matrix Metalloproteinase-9 Expression via ERK-CREB-AP-1 Axis. W. ARIYOSHI*, W. CHAWEEWANNAKORN, T. OKINAGA, T. NISHIHARA (Division of Infections and Molecular Biology, Kyushu Dental University, Kitakyushu, Fukuoka, Japan)
- S0702** Altered Expression of Matrix Metalloproteinases (MMP) in Osteonecrosis of the Jaw (ONJ) Patients. M. CHAE*, J. YANG, X. LI, K. FLEISHER, D. SAXENA (New York University College of Dentistry, New York, New York, USA)
- S0703** LPS Neutralizing Capacity: Linkage Between Stroke and Periodontitis?. J. LESKELÄ*, F. PALM, M. LEHTO, A. SAFER, A. GRAU, P. PUSSINEN (Department of Oral and Maxillofacial Diseases, University of Helsinki, Helsinki, Finland)
- S0704** Immune Checkpoint Molecule Expressed on Masticatory Mucosae Regulates Tissue Inflammation. S. KANG*, T. OHNO, M. AZUMA (Molecular Immunology, Tokyo Medical and Dental University, Tokyo, Japan)
- SC0705** *Porphyromonas gingivalis* Affects MUC1 Expression in Oral Epithelium. C.-C. LEE*, Y.-L. LAI, K. MA, C.-Y. WU, S.-L. HUNG (Dentistry, National Yang-Ming University, Taipei, Taiwan)
- 0706** Effects of Clindamycin on Silkworm Larvae *Bombyx Mori* Model Infected With *Porphyromonas Gulae*. H. INABA*, S. YOSHIDA, R. NOMURA, K. NAKANO, M. NAKANO (Department of Pediatric Dentistry, Okayama University Graduate School of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama, Japan)
- SC0707** Immunomodulatory Effects of Areca Nut Extract on Periodontal Ligament Fibroblasts. S.-T. LIU*, Y.-L. LAI, S.-L. HUNG, Y.-C. LIN, L.-Y. CHANG (Oral Biology, National Yang-Ming University, Taipei, Taiwan)
- E0708** mCD11c+DC Precursors Mediate Osteoclastogenic Signals on Arthritic Bone-loss in Mice. Y.C. LIU*, A. TENG (Dept. of Dental Hygiene, College of Dental Medicine, Kaohsiung Medical University, Kaohsiung City, Taiwan)
- 0709** Antimicrobial and Antibiofilm Effects of an Extract Mixture in a Herbal Toothpaste. S. RAJAPAKSE*, H. KULASEKARA, A. CHANG, R. DARVEAU (Faculty of Dental Sciences, University of Peradeniya, Peradeniya, Sri Lanka)
- S0710** Etidronate Down-regulates Toll-like Receptor 2 Ligand-induced Proinflammatory Cytokine Production. K. HOJO*, R. TAMAI, M. KOBAYASHI-SAKAMOTO, Y. KIYOURA (Ohu University School of Dentistry, Koriyama, Fukushima, Japan)
- S0711** Anti-inflammatory Effect of Trans-Cinnamic Aldehyde in *Aggregatibacter Actinomycetemcomitans*-stimulated THP-1-derived Macrophages. S.M. KIM*, Y.R. SONG, S. KIM, M. PARK, H.-J. KIM, H.S. NA, J. CHUNG (Department of Oral Microbiology, School of Dentistry, Pusan National University, Yangsan, Korea (the Republic of))
- 0712** Destruction of Bacterial Cell Wall by Essential Oil From *Cinnamomum Cassia*. A.-H. SONG*, S.-G. PARK, T. WANG, K.-S. AHN, M.-G. JI, S.-H. OHK (Department of Oral Microbiology, Chonnam National University, Gwangju, Korea (the Republic of))

- S0713** KDM3C Epigenetically Regulates Pro-inflammatory Cytokine Induction and Systemic Inflammatory Response. S. MEHRAZARIN*, A. ALSHAIKH, S. VARMA, W. CHEN, C. CHUN, R. KIM, K.-H. SHIN, N.-H. PARK, M. KANG (University of California - Los Angeles, Los Angeles, California, USA)
- S0714** Zingerone Inhibits Inflammatory IL-1 β Production in THP-1 Cells Infected With *Aggregatibacter Actinomycetemcomitans*. Y.-R. SONG*, S.M. KIM, S. KIM, H.A. LEE, S.-M. OK, H.S. NA, J. CHUNG (Oral Microbiology, Pusan National University, Yangsan, Gyeongsangnam-do, Korea (the Republic of))
- S0715** Anti-inflammatory Effects of *Scutellaria Baicalensis* on LPS-mediated PDL Cell. H.-J. MOON*, I.K. KWON (School of Dentistry and Oral Health, Griffith University, Gold Coast, Queensland, Australia)
- S0716** Butyrate induces the release of DAMPs from gingival epithelium during starvation. T. MUROFUSHI*, H. TSUDA, N. SUZUKI (Biochemistry, Nihon University School of Dentistry, Tokyo, Japan)
- 0717** Effect of Preparation Method and Preservation Period on Salivary DNA. M. KARCHED*, R. BHARDWAJ, E. PAULINE, S. GEORGE, S. ASIKAINEN (Department of Bioclinical Sciences, Faculty of Dentistry, Kuwait University, Kuwait, Kuwait)
- C0718** Bacterial Contamination of Opened Box Absorbent Point and UV Disinfection. S. LEE*, M. SUPRONO, J. PARK, R. APRECIO (Center for Dental Research, Loma Linda University School of Dentistry, Loma Linda, California, USA)

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Poster Session, Hall B

Oral Health Research – Dental Plaque Control II

- 0719** Anti-plaque Efficacy of a Stannous Containing Sodium Fluoride Dentifrice. J.Z. ZHAO, T. HE, M. CAO*, J. CHANG, N. JI (Oral Health Care, Procter & Gamble Company, Mason, Ohio, USA)
- 0720** Debris Removal Efficacy of Sugar and Sugar-Free Chewing-Gums Mastication. P.F. PORCIANI*, S. GRANDINI (Dept. of Restorative Dentistry, University of Siena, Firenze, Italy)
- 0721** Clinical Anti-Plaque Efficacy of Darlie Expert Gum Care Toothpaste. Y. ZHOU*, R. XU, X. CHEN, B. LIU (Hawley & Hazel Chemical Co., (ZS) Ltd., ZHONGSHAN, China)
- 0722** The Plaque Reduction Efficacy of a Two-Step System. T. HOU, T. HE, J. CHANG, H. YANYAN, N. JI, S. LI, L. SUN* (Procter & Gamble Beijing Innovation Center, Beijing, China)
- 0723** *In vivo* PGRM Study on Three Different Dentifrices. J.Z. ZHAO, T. HE, J. LI, G. LIN*, H. YANYAN, S. LI, N. JI (Procter & Gamble Beijing Innovation Center, Beijing, China)
- 0724** The Gingivitis Reduction Efficacy of a Novel Experimental Dentifrice. J.Z. ZHAO, T. HE, J. CHANG, H. YANYAN*, S. LI, N. JI, L. TIAN (Procter & Gamble Beijing Innovation Center, Beijing, China)
- 0725** Anti-Gingivitis Efficacy of a Stannous-containing Sodium Fluoride Dentifrice. J.Z. ZHAO, T. HE, J. CHANG, H. YANYAN, S. LI, N. JI, L. TIAN* (P&G Technology (Beijing) Co.,Ltd., Beijing, China)
- 0726** A-12 week Clinical Gingivitis Study of a 2-step System. J.Z. ZHAO, T. HE, J. CHANG*, H. YANYAN, S. LI, N. JI (Procter & Gamble Beijing Innovation Center, Beijing, China)
- 0727** Fast Onset Anti-gingivitis Benefit of a Two-Step Dentifrice System. T. HE*, J. CHANG, H. YANYAN, S. LI, N. JI (Oral Health Care, Procter & Gamble Company, Mason, Ohio, USA)

- 0728** *In Vitro* Efficacy Evaluation Between Paste and Patch Type Dentifrice. J.-H. AHN*, J.-H. KIM, J.-Y. KIM (LG H&HC Research Park, Taejeon, Korea (the Republic of))
- 0729** Comparison of Plaque Removal Efficacy by Two Power Toothbrushes. F. MOORE, J. DEFENBAUGH, A. MWATHA, S. SOUZA, M. STARKE*, R. MACLURE, M. WARD (Philips Oral Healthcare, Inc., Bothell, Washington, USA)
- 0730** Stannous Penetration and Antibacterial Efficacy of a Stannous Fluoride Toothpaste. R. STRAND*, Y. SHI, T. HE, J. CHANG, H. YANYAN, N. JI (Procter & Gamble Company, Beijing, China)
- E0731** Associations Between GCF Volume/Prostaglandin E2 Levels and Traditional Assessments. Y. ZHOU, W. CHEN, D. YE, R. XU* (R&D Oral Care, Hawley & Hazel Company, Guangdong, China)
- 0732** Effect of Zinc-contained Dentifrice on Inhibition of Interproximal Plaque. R. XU, C. LI, X. CHEN, Y. ZHOU, L. GAO*, Y. LIN (R&D, Hawley & Hazel Chemical Co., (ZS) Ltd., Zhongshan City, Guangdong, China)
- 0733** Assessing Stannous Penetration Efficiency and Antibacterial Efficacy of Dentifrices Using *In-situ* Biofilm Model. Y. SHI*, T. HE, J. CHANG, H. YANYAN, N. JI, H. LAN, T. YI, R. STRAND (Procter & Gamble Company, Beijing, China)
- C0734** Effect of *Lactobacillus rhamnosus* LGG and *Bifidobacterium lactis* BB-12 on Gingival Health and Dental Plaque in Healthy Adolescents: A Randomized Controlled Clinical Trial. A. ALANZI, S. HONKALA*, E. HONKALA, A. VARGHESE, M. TOLVANEN, E. SODERLING (Faculty of Dentistry, Kuwait University, Safat, Kuwait)
- S0735** Markerless Genome Editing in Oral Streptococci. R. JUNGES*, R. KHAN, H. ÅMDAL, D. MORRISON, F. PETERSEN (Department of Oral Biology, University of Oslo, Oslo, Norway)
- SC0736** *Lactobacillus* Reduce *Candida albicans* Adhesion and Filamentation During Biofilm Development. V. MATSUBARA*, Y. WANG, H. BANDARA, M. MAYER, L. SAMARANAYAKE (Prosthodontic, University of Sao Paulo - School of Dentistry, São Paulo, São Paulo, Brazil)
- C0737** Probiotics for Oral Health. M. GOETZ*, B. FIEBICH, J. FISCHER, M. GAJFULIN, T. KULKE, T. SCHMITTER (S&C Global Innovation, Symrise AG, Holzminden, Lower Saxony, Germany)
- S0738** Formulating Probiotics as Mucoadhesive, Fast Disintegrating Tablet. A. HOFFMANN*, J. FISCHER, M. GOETZ, K. HOLMGREN, R. DANIELS (Pharmaceutical Technology, University of Tuebingen, Tuebingen, Germany)
- S0739** Anti-inflammatory Effect of $\Sigma\alpha\lambda\omega\alpha\delta\sigma\alpha$ Περσιχα. R. AL-BABTAIN*, M. BAHAMMAM, E. BOSTRÖM, A. GUSTAFSSON (periodontology, Karolinska institutet, Stockholm, Huddinge, Sweden)
- C0740** Planimetric Plaque Assessment of Toothbrushing With Agents of Different Abrasivity. P. GAENGLER*, C. BIRKE, B. JENNES, T. LANG (ORMED Institute for Oral Medicine at the University of Witten/Herdecke, Witten, Germany)
- S0741** *In Vitro* Oral Hygiene Gel Testing Using Organic Plaque Simulation. A.-K. FLAD*, T. LANG, K.W. WEICH, P. GAENGLER (ORMED Institute for Oral Medicine at the University of Witten/Herdecke, Witten, Germany)

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Poster Session, Hall B

Oral Medicine & Pathology – Oral Medicine & Pathology IV

- S0742** E-Cadherin and MMP 9 As EMT Markers in Oral Squamous Cell Carcinoma. H. SHERLIN*, P. RAMANI, V. RAMSHANKAR, K.R. DON (Oral and Maxillofacial Pathology, Saveetha Dental College, Chennai, Tamilnadu, India)
- S0743** mEAK-7+ Cells Promote the Interaction of S6K2 and mTOR to Activate mTORC1 Signaling. J. NGUYEN*, C. RAY, D. MENDONCA, H. AMATULLAH, F. HAIDAR, J.K. KIM, P. KREBSBACH (School of Dentistry, University of Michigan, Ann Arbor, USA)
- SE0744** Hsp90 Inhibition Induces Apoptosis in Squamous Cell Carcinoma Cell Lines. R. SRINOPPARATANAKUL*, R. KANPACHAI, M. SIRITAPETAWE, P. CHAIYARIT, S.C. CHEONG, P. KLANRIT (Department of Oral Diagnosis, Faculty of Dentistry, Khon Kaen University, Khon Kaen, Thailand)
- 0745** Senescing Effects of Ionizing-radiation in Oral Tissues Through Epigenetic Mechanisms. W. CHEN, Y. CAO*, N.-H. PARK, M. KANG (Endodontics, UCLA School of Dentistry, Los Angeles, California, USA)
- 0746** CAY10591 Suppresses Cell Growth and Migration of Gingival Squamous Cell Carcinoma. H. TSUDA*, T. MUROFUSHI, N. SUZUKI (Department of Biochemistry, Nihon University, Tokyo, Japan)
- 0747** A Multicentric Study of Oral Malignant Tumors From Thailand. K. DHANUTHAI*, A. SUBARNBHESAJ, W. THOSAPORN, S. KINTARAK (Department of Oral Pathology, Faculty of Dentistry, Chulalongkorn University, Bangkok, Thailand)
- S0748** Prognostic Significance of Nestin in Primary Malignant Melanoma of the Oral Cavity. S.K. KUK*, H.J. YOON, S.D. HONG, S.P. HONG, J.I. LEE (Department of Oral Pathology, School of Dentistry and Dental Research Institute, Seoul National University, Seoul, Korea (the Republic of))
- S0749** Impact of WWOX Gene Polymorphisms on Oral Cancer. J.-S. YANG*, C.-W. LIN, S.-F. YANG (Chung Shan Medical University Hospital, Taichung, Taiwan)
- E0750** The Influence of Antophagy Inhibition Contributes to Radiation Sensitization of Oral Squamous Cell Carcinoma. Z. ZHANG* (Jilin University, ChangChun, China)
- S0751** YAP Down-regulation Inhibits Proliferation and Migration of Oral Squamous Cell Carcinoma Cells. J.S. HONG*, S.D. HONG, J.I. LEE (Department of Oral pathology, Seoul National University, Seoul, Korea (the Republic of))
- SE0752** Genome-wide Analysis of DNA Hypermethylation in Epithelial Cells by Arecoline. B. ADHIKARI*, O. UEHARA, K. YOSHIDA, T. MORIKAWA, F. HARADA, T. CHUJO, R. TAKAI, J. SATO, M. NISHIMURA, Y. ABIKO (Division of Oral Medicine and Pathology, Department of Human Biology and Pathophysiology, Health Sciences University of Hokkaido, Ishikari-Tobetsu, Hokkaido, Japan)

Seq#: 108 Thursday, 23 June 2016, 3:30 p.m. – 4:45 p.m.
Poster Session, Hall B

Periodontal Research-Therapy – Bone Regeneration & Wound Healing

- E0753** Strontium-coated Deproteinized Bovine Bone Grafting Enhances Bone Repair in Calvarial Critical Size Defects. M. ARONI, G. OLIVEIRA, R.A.C. MARCANTONIO, A. STAVROPOULOS* (Periodontology, Malmö University, Faculty of Odontology, Malmö, Sweden)

SE0754 Zolidronic Acid-loaded Gelatin Nanoparticles for Alveolar Bone Restitution. S. NI*, H. SUN (Pathology Department, Stomatology School, Jilin University, Changchun, Jilin, China)

SC0755 Bisphosphonate Effects on Gingival-crevicular-fluid at Baseline and After Periodontal Treatment. J. HAHN*, H. SHAMIA, L. BAHL-PALOMO (Case Western Reserve University, Cleveland, Ohio, USA)

0756 *Morinda citrifolia* (Noni) Enhances Osteogenic Differentiation of Human Periodontal Ligament Fibroblasts Under the LPS-induced Inflammatory Condition. K. BOONANANTANASARN, H. GU*, G.-S. KIM, J.-H. BAEK (Seoul National University School of Dentistry, Seoul, Korea (the Republic of))

S0757 Migratory Effect of Non-thermal Atmospheric Pressure Plasma on Human Gingival Fibroblast. I.-S. SONG*, I. HAN, E.H. CHOI, J. RYU (Department of Dentistry, Korea University Anam Hospital, Seoul, Korea (the Republic of))

S0758 Regulation of Connexin 43 Expression in Human Gingival Fibroblasts. J. CHENG*, R. TARZEMANY, J. GUOQIAO, H. LARJAVA, L. HÄKKINEN (Dept. of Oral Biological and Medical Sciences, University of British Columbia, Vancouver, British Columbia, Canada)

S0759 Functional Expression of KATP Channel on Human Periodontal Ligament Cells. P. TRAN*, S.-J. PARK, S.-K. HAN (Department of Oral Physiology, School of Dentistry, Chonbuk National University, Jeon-ju, Korea (the Republic of))

S0760 Type-I Pepsin-Solubilized Collagen From *Bohadschia Bivittata* Enhanced hPDLFs Cells Viability. Y. SIDDIQUI*, E. ARIEF, K. OMORI, T. YAMAMOTO, T. ITO, S. TAKASHIBA (Department of Pathophysiology-Periodontal Science, Okayama University, Okayama, Japan)

0761 mTOR Inhibition Delays Replicative-induced Senescence of Human Gingival Fibroblasts. R. SHU*, Y. XIA (Department of Periodontology, Ninth People's Hospital, SJTU, Shanghai, China)

SC0762 Effect of rhFGF-2/Gelatin- β -TCP on Root Coverage in Beagle Dogs. A. SHUJAA ADDIN*, T. AKIZUKI, S. HOSHI, T. MATSUURA, T. IKAWA, K. MARUYAMA, W. ONO, S. FUKUBA, Y. IZUMI (Periodontology, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University, Tokyo, Japan)

C0763 Root Coverage Using Porcine Collagen Matrix With and Without Fibroblast Growth Factor-2: A Pilot Study in Dogs. J.-K. CHA*, Y.-K. SUN, J. LEE, S.-H. CHOI, U.-W. JUNG (Periodontology, College of Dentistry, Yonsei University, Seoul, Seodaemoongu, Korea (the Republic of))

C0764 Changing of Maxillary Gingival Margin Locations Following Crown Lengthening Surgery. F. ZHANG, X. TANG*, D. LIU, C. MA (Periodontology, School of Stomatology, China Medical University, Shenyang, Liaoning, China)

C0765 Long-term Stability of Splinted Teeth During SPT. C. BETZLER*, S. SONNENSCHNEIN, T.-S. KIM (Department of Conservative Dentistry, University Hospital Heidelberg, Heidelberg, Germany)

Seq#: 109 Thursday, 23 June 2016, 3:30 p.m. – 4:45 p.m.
Poster Session, Hall B

Periodontal Research-Diagnosis/Epidemiology – Periodontal Research, Epidemiology, Miscellaneous

- 0766** The Effect of Inflammation on Proliferation and Osteogenic Differentiation of Human PDLFs. Z. SONG*, R. SHU (9th People's Hospital, Shanghai Jiao Tong University, Shanghai, China)

THURSDAY

- C0767** Prevalence And Impact Of Cervical Enamel Projection In Mandibular Molars. H.-C. LIM*, S.-K. JEON, J.-K. CHA, J. LEE, S.-H. CHOI, U.-W. JUNG (Periodontology, Kyung Hee University, Seoul, Korea (the Republic of))
- C0768** Halitosis and Oral Health Related Quality of Life. J. WEUSMANN*, B. MAHMOODI, A. AZARIPOUR, M. DJAFARPUR, C. WALTER, B. WILLERSHAUSEN (Operative Dentistry and Periodontology, Mainz University Medical Centre, Mainz, Germany)
- S0769** Genome-wide Analysis of Circulating Matrix Metalloproteinase 8 Levels. A. SALMINEN*, E. VLACHOPOULOU, A. HAVULINNA, T. TERVAHARTIALA, W. SATTTLER, M.-L. LOKKI, M. NIEMINEN, M. PEROLA, V. SALOMAA, J. SINISALO, S. MERI, T. SORSA, P. PUSSINEN (Oral and Maxillofacial Diseases, University of Helsinki, Helsinki, Finland)
- 0770** Association Between rs12108497 Single Nucleotide Polymorphisms of CASP3 Gene and Chronic Periodontitis in Korean Population. S.A. JIN, S.W. KANG, S.K. KIM, J.Y. BAN* (Dankook University, Cheonan)
- S0771** Macrophage Erythroblast Attacher Gene Polymorphism and Periodontitis in Postmenopausal Women. Y. CHE*, N. SUGITA, N. TAKAHASHI, A. YOSHIHARA, Y. HANAI, M. IWASAKI, H. MIYAZAKI, K. NAKAMURA, H. YOSHIE (Division of Periodontology, Department of Oral Biological Science, Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan)
- C0772** New Candidate Pathogens in Subjects With Periodontitis. M. FERES*, R. OLIVEIRA, D. FERMIANO, L. FIGUEIREDO, F. TELES, G. SOARES, M. FAVERI (Periodontology, Guarulhos University, Guarulhos, São Paulo, Brazil)
- C0773** Prediction of *P. gingivalis* Using the Periodontal Index and Serum Antibody Level. S.-Y. PARK*, S. AHN, J. LEE, P. YUN, Y.-S. JANG, Y.-J. LEE, H.-J. LEE (Department of periodontology, Seoul National University Bundang Hospital, Seongnam-si, Gyeonggi-do, Korea (the Republic of))
- SC0774** Variation in the Gingival Thickness in Anterior Teeth – A Clinical Study. A. JAGADEESAN* (periodontics, saveetha dental college, Chennai, Tamil Nadu, India)
- S0775** Study for the Apical bud Differentiation Model Using Green Mice. N. MARUO*, R. SAKAGAMI, Y. YOSHINAGA, Y. SAWA (Fukuoka dental college, Fukuoka, Japan)
- 0776** Mechanoresponsive Properties of the Periodontal Ligament are Responsible for Tooth Movement. L. HUANG*, J.Y. CHA, M. KELLY, G. SINGH, J. HELMS (Orthodontic Department, Stomatology Hospital of Chongqing Medical University, Chongqing, Chongqing, China)
- 0777** The Effect of Silicon Oxynitride on Antioxidant and Osteogenic Expression in Human Periosteum Cells. T. ODATSU*, P. ASWATH, V. VARANASI (Nagasaki University, Nagasaki, Japan)

Seq#: 110 Thursday, 23 June 2016, 3:30 p.m. – 4:45 p.m.
Poster Session, Hall B

Periodontal Research-Pathogenesis – Periodontal Research-Pathogenesis in Vitro I

- SE0778** Gingipains Suppress the LPS Induction of Macrophages to the M1 Phenotypic Polarization by C5a Pathway. W. YU*, H. YU, X. LIU, Y. HOU, J. PAN, G. LI, Q. TANG (School of Stomatology, Jilin University, Changchun, Jilin, China)

- S0779** Human Leukocytes Produce NLRP3-inflammasome-dependent IL-1 β After H₂S Exposure *in Vitro*. A. BASIC*, S. ALIZADEHGHARIB, G. DAHLEN, U. DAHLGREN (Oral Microbiology and Immunology, University of Gothenburg, Gothenburg, Sweden)
- 0780** Effects of Oxidative Stress on Gingival Epithelial Cells. T. YAMAGUCHI*, K. YAMAMOTO, T. CHIKAZAWA, K. EGASHIRA, S. KATAOKA, M. MURAKOSHI (LION Corporation, Tokyo, Japan)
- 0781** Elevated Oxidative Stress in Diabetes and its Effect on Gingival Fibroblast. K. YAMAMOTO*, T. YAMAGUCHI, S. KATAOKA, M. MURAKOSHI (Life Science research lab., LION corporation, Odawara, Kanagawa, Japan)
- SC0782** Examination of the Role of MicroRNA in Drug-induced Gingival Overgrowth. J. JALILI*, S. AMALINA, D. LAMBERT (School of Clinical Dentistry, University of Sheffield, England, UK)
- 0783** Identification of *Porphyromonas gingivalis* Genes Essential for Surviving Cigarette Smoke Exposure. H. GOGHENI, D. YODER-HIMES, H. WANG, R. LAMONT, D. SCOTT, J. HUTCHERSON* (Oral Immunology and Infectious Diseases, University of Louisville, Louisville, Kentucky, USA)
- 0784** Regulation of UCP2 by *Porphyromonas gingivalis* LPS in THP-1 Macrophages. N. SUGITA*, N. TAKAHASHI, Y. CHE, H. YOSHIE (Division of Periodontology, Department of Oral Biological Science, Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan)
- 0785** The Modulating Effects of Proinflammatory Cytokine, IFN- γ or Anti-inflammatory Cytokine, IL-4 on Human Gingival Fibroblasts. S. JI*, J.-Y. JANG, K. BAEK, Y. CHOI (Periodontology, Korea University Anam Hospital, Seoul, Korea (the Republic of))
- 0786** MiR-155 Modulates NLRP3 In U937 Immune Response To *P.gingivalis* Infection. L. LIN* (Periodontics, China Medical University, Shenyang, China)
- S0787** High Glucose Enhances IL-6-induced Protease Productions in Gingival Fibroblasts. J.H. LEW*, K. NARUISHI, Y. KAJIURA, Y. NISHIKAWA, J.-I. KIDO, T. NAGATA (Periodontology and Endodontology, Tokushima University Graduate School, Tokushima City, Tokushima Province, Japan)
- 0788** High Glucose Enhances *P. gingivalis*-induced Cytokine Production in THP-1 Monocytes. Y. KAJIURA*, K. NARUISHI, Y. NAKAJIMA, Y. NISHIKAWA, J.H. LEW, J.-I. KIDO, T. NAGATA (Department of Periodontology and Endodontology, Institute of Biomedical Sciences, Tokushima University Graduate School, Tokushima, Japan)
- S0789** Calprotectin Induces the Expression of Inflammation-related Molecules in Gingival Fibroblasts. Y. NISHIKAWA*, K. NARUISHI, Y. KAJIURA, J.H. LEW, J.-I. KIDO, T. NAGATA (Periodontology and Endodontology, Tokushima University, Tokushima City, Tokushima, Japan)
- 0790** Involvement of *P. gingivalis* LPS in *P. gingivalis* Induced Autophagy in HAECS. B. LIU*, L. CHEN, J. WANG, J. LIANG (Department of Endodontics and Operative Dentistry, 9th People's Hospital affiliated to Shanghai Jiao Tong University School of Medicine, Shanghai, Shanghai, China)

Seq#: 111 Thursday, 23 June 2016, 3:30 p.m. – 4:45 p.m.
Poster Session, Hall B

Prosthodontics Research – Clinical Trials in Prosthodontics

- SE0791** Efficacy of Two Anaesthetic Techniques Over Tooth Hyperesthesia During Mandibular Posterior Teeth Preparation – A Randomized Split Mouth Clinical Trial. H. RANGANATHAN*, D. GANAPATHY, P. SEKARAN (Prosthodontics, Saveetha dental college, Chennai, India)



- S0792** Comparing the Clinical Accuracy of Orientation Jaw Relation Recorded With Various Commercially Available Facebows – An *in vivo* Study. P. ROBIN, A. MALLIKARJUNA* (Prosthodontics, Saveetha Dental College, Chennai, Tamil Nadu, India)
- SC0793** Comparative Evaluation of Two New Gingival Retraction Systems With Conventional Retraction Cord – A Randomized Controlled Clinical Trial. A. MANI, S. RAMESH* (Saveetha Dental College, Chennai, India)
- SE0794** Bone Regeneration Using Bone Marrow Mesenchymal Stem Cells Seeded on Type I Collagen Scaffold – An Animal Study. A. PRABHAKARAN, V. RAMANATHAN* (Prosthodontics, Saveetha Dental College, Chennai, Tamil Nadu, India)
- S0795** Effects of Masticatory Occlusal Force Regulation on the Occurrence of Stage II Transport. A. KOMINE*, R. ISHIDA, S. YAMASHITA (Tokyo Dental College, Chiyoda-ku, Tokyo, Japan)
- S0796** Comparison Between Masseteric Activities During Sleep and Meal Time in Patients With Bruxism. T. NAKAJIMA*, T. YAMAGUCHI, S. MIKAMI, M. SAITOU, K. WATANABE, K. OKADA, A. GOTOUDA, W. YACHIDA (Department of Crown and Bridge Prosthodontics, Oral Functional Science, Graduate School of Dental Medicine, Hokkaido University, Sapporo, Japan)
- 0797** Effect of Postural Position on the Masticatory Function. K. SAKAGUCHI*, N. MEHTA, H. SHIGA, K. CHINO, K. SHIMA, A. YOKOYAMA (Graduate School of Dental Medicine, Hokkaido University, Sapporo, Japan)
- SC0798** Effects of Occlusal Splint Over Postural Alignment and Postural Balance. S. OLIVEIRA*, E. ABE, S. NAKAZONE JR, M. MORI, C. PANNUTI, K. PARANHOS, D. LAGANÁ, M.L. FRIGERIO (Odontotécnica, Federal Fluminense University, Rio de Janeiro, Rio de Janeiro, Brazil)
- E0799** Comparison between dental arch dimensions and form in complete dentures and natural dentition. A. ELKEZZA*, M.S. FAROOK, O. MAHMOUD (Department of Restorative Dentistry, Faculty of Dentistry, University of Malaya, Kuala Lumpur, Kuala Lumpur, Malaysia)
- C0800** Partial Dentures Made of Polyamide for Interim Supply – Preliminary Results of a Randomized Clinical Study. A. BOECKLER*, M. STAAKE, C. WEGNER, J. SETZ, J. HEY (Department of Prosthodontics, Centre for Dentistry and Oral Medicine, Martin-Luther-University Halle-Wittenberg, Halle, Germany)
- C0801** Immediate Loading of Two-implants Mandibular Overdentures: 4-years Prospective Study. M. KANAZAWA*, M. IWAKI, Y. OMURA, A. MIYAYASU, S. KASUGAI, S. MINAKUCHI (Gerodontology and Oral Rehabilitation, Tokyo Medical and Dental University, Tokyo, Japan)

Seq# 112 Thursday, 23 June 2016, 3:30 p.m. – 4:45 p.m.
Poster Session, Hall B

Pulp Biology & Regeneration Research – Stem Cell Biology & Odontogenic Differentiation

- 0802** The Regenerative Potential of Stem Cells From Apical Papilla (SCAP) in Comparison to Dental Pulp Stem Cells (DPSC). S. KIM*, M.-J. JEON, J.-E. CHOI, J.S. SONG (Yonsei University College of Dentistry, Seoul, Korea (the Republic of))

- SC0803** Semaphorin 3A Induces Odontoblastic Phenotype in Dental Pulp Stem Cells. S. YOSHIDA*, N. WADA, D. HASEGAWA, A. TOMOKIYO, S. HAMANO, H. MITARAI, H. SUGII, H. MAEDA (Dept. of Endodontology & Operative Dentistry, Kyushu University, Fukuoka, Japan)
- S0804** Nucleolin Mediates Endocytosis of Copine-7 During Odontoblast Differentiation. Y.-M. SEO, C. SON*, J.-C. PARK (School of Dentistry, Seoul National University, Seoul, Korea (the Republic of))
- 0805** Zinc Finger and BTB Domain-containing 20 (ZBTB20) Regulates Osteo/odontogenic Differentiation of HDPSCs via the NF- κ B Pathway. S. GU*, J. LIANG (Shanghai Jiaotong University, Shanghai, China)
- 0806** Histological Evaluation of Human Dental Pulp in a Tooth Crown Organ Culture. K. KAEWSUWANNA*, P. KAIYASUAN, N. THATDEE, W. KHUMPANGKAEW, S. KHIMSUKSRI, W. PITIPHAT, S. RUANGSRI SERMSWATSRI, J. PAPHANGKORAKIT (Faculty of Dentistry, Khon Kaen University, Khon Kaen, Thailand)
- S0807** Phenotypic Characterization of Deciduous Teeth Pulp Stem Cell Populations. N. ISHKITIEV*, V. MITEV, M. RAHKOVA, N. MITOVA, M. DRAGNEVA (Medical University Sofia, Sofia, Sofia, Bulgaria)
- 0808** Histone Deacetylase Inhibitors Induce Odontoblast Differentiation Through the Activation of Wnt/ β -catenin Signaling. A. KWON, K. BOONANANTANASARN, J.-R. SEO*, H.-M. RYOO, K.M. WOO, J.-H. BAEK (Seoul National University School of Dentistry, Seoul, Korea (the Republic of))
- S0809** Effects of Proanthocyanidins on Mineralization of Human Dental Pulp Cells *in Vitro* and *in Vivo*. T. WU*, L. JIANG, Y. ZHU (Department of General Dentistry, Shanghai Jiao Tong University, Shanghai, China)
- 0810** Three-dimensional Analysis of Iba1 + Macrophages in Human Dental Pulp Using Whole Mount Immunostaining. O. ARAMAKI*, N. KAWASHIMA, Y. SHIMADA, T. OKIJI, J. TAGAMI (Cariology and Operative Dentistry, Tokyo Medical and Dental University, Tokyo, Japan)
- S0811** Single Cell Analysis of Rat Odontoblasts for Functional Expression of P2X Purinoceptors. B.-M. LEE*, H.-J. JO, Y.H. KIM, S.-J. JUNG, C.-K. PARK, G. CHUNG, S.B. OH (Department of oral physiology, School of dentistry, Seoul National University, Seoul, Korea (the Republic of))
- S0812** Bcl-2 Overexpression and Hypoxia Synergistically Enhance VEGF Secretion in DPSCs. W. DISSANAYAKA*, C. ZHANG (Faculty of Dentistry, The University of Hong Kong, Sai Ying Pun, Hong Kong)
- 0813** Three-dimensional Spheres Derived From Dental Pulp Cells Exhibit Enhanced Stemness. S.H. LEE, M. KANG, R. KIM, N.-H. PARK, K.-H. SHIN* (School of Dentistry, UCLA, Los Angeles, California, USA)
- S0814** Examination of Implanted Dental Pulp-derived Cell Sheets Cultured on Amnion. T. YAMAMOTO*, K. HONJYO, M. NISHIGAKI, T. AMEMIYA, M. KITA, N. KANAMURA (Dental Medicine, Kyoto Prefectural University of Medicine, Graduate School of Medical Science, Kyoto, Japan)
- S0815** Characterization of Human Mobilized Dental Pulp Stem Cells (MDPSCs) From the Pulp of Immature Third Molar Tooth Compared to Colony-derived Dental Pulp Stem Cells (DPSCs). H. NAKAYAMA*, M. NAKASHIMA (Department of oral disease research, National Center for Geriatrics and Gerontology, Kasugai-shi, Aichi, Japan)

SE0816 Mechanical Force-Stimulated Dental Pulp Cells Enhance Osteoclastogenesis via S100A7. T. NGUYEN*, H. CHAROENPONG, P. PAVASANT, P. RITPRAJAK (Graduate program in Oral Biology, Faculty of Dentistry, Chulalongkorn University, Bangkok, Thailand)

0817 Cold Stimulus Activates Ionic Channels in Freshly Isolated Human Odontoblasts. H. IKEDA*, H. SUDA, T. OKIJI (Department of Pulp Biology & Endodontics, Tokyo Medical & Dental University, Tokyo, Japan)

Seq# 113 Thursday, 23 June 2016, 3:30 p.m. – 4:45 p.m.
Poster Session, Hall B

Women in Science Network – Women in Science

SC0818 Periapical Periodontitis Associated With Systemic Immune Response Among Pregnant Women. U. HARJUNMAA*, J. JÄRNSTEDT, J. JØRGENSEN, C. STEWART, K. DEWEY, U. ASHORN, K. MALETA, P. ASHORN (Department for International Health, University of Tampere, Tampere, Finland)

POSTER CHAIR LISTING

THURSDAY, JUNE 23, 2016

Poster Sessions: 2 p.m. – 3:15 p.m.

Seq#	Group	Poster#	Session Chair
76	BEHSR	0349-0362	Anyia Vieira-Meyer
77	CAR	0363-0368	Malihe Moeinian
78	CAR	0369-0383	
79	CTSN	0384-0389	
80	CRAN	0390-0397	Sunil Wadhwa
81	DM	0398-0413	Carlos Francci
82	DM	0414-0424	
83	DM	0425-0440	Wolfgang Arnold
84	DM	0441-0446	
85	DIA	0447-0454	
86	EDU	0455-0464	Anuradha Polster
87	IMP	0465-0481	Xin Xu
88	MI	0482-0494	Maribasappa Karched
89	NEU	0495-0506	
90	OHR	0507-0517	Yi Zhou
91	OMP	0518-0529	Herald Sherlin
92	OMS	0530-0544	Mariko Hattori
93	PERIO	0545-0557	
94	PERIO	0558-0572	Weixian Yu
95	PERIO	0573-0590	
96	PROS	0591-0597	Aeman Elkezza

Poster Sessions: 3:30 p.m. – 4:45 p.m.

Seq#	Group	Poster#	Session Chair
97	BEHSR	0598-0608	Sheena Ramsay
98	CAR	0609-0619	Inez Hanida
99	CRAN	0620-0638	Chakrabhavi Gundurao Dileep Sharma
100	DM	0639-0653	Christopher Thalacker
101	DM	0654-0661	
102	DM	0662-0677	Julian Conejo
103	DM	0678-0686	
104	IMP	0687-0699	Warwick Duncan
105	MI	0700-0718	Irlan Freires
106	OHR	0719-0741	Karl Kingsley
107	OMP	0742-0752	Jyothi Tadakamadla
108	PERIO	0753-0765	
109	PERIO	0766-0777	Hitoshi Hotokezaka
110	PERIO	0778-0790	
111	PROS	0791-0801	Sana Peerbhoy
112	PB	0802-0817	Ikhlas El Karim
113	WISN	818	



FRIDAY

Seq#: 114 Friday, 24 June 2016, 8 a.m. – 9:30 a.m.
Symposium, 307A

Contemporary Concepts of Periodontal Tissue Regeneration and Stem Cell Research

Chairpersons: S. Choi and S. Heo

- 0819** 8 a.m. Optimization of PDLSCs-mediated Periodontal Tissue Regeneration. J.-H. YUN* (Department of Periodontology, Chonbuk National University, Jeonju,
0820 8:15 a.m. Periodontal Tissue Regeneration Using Signaling Molecule Composite. S.J. YU* (Periodontology, School of Dentistry, Chosun University, Gwang Ju, Korea (the Republic of))
0821 8:30 a.m. The Results of Unprotected Open Healing Following Ridge Preservation. J.-C. PARK* (Periodontology, College of Dentistry, Dankook University, Cheonan, Korea (the Republic of))
0822 8:45 a.m. Augmentative Treatment of Infected Extraction Sockets. K.-T. KOO* (Periodontology, School of Dentistry, Seoul National University, Seoul, Korea, Korea (the Republic of))
0823 9 a.m. Maxillary Sinus: The Chamber of Secrets. U.-W. JUNG* (Periodontology, College of Dentistry, Yonsei University, Seoul, Korea, Korea (the Republic of))
9:15 a.m. Discussion.

Seq#: 115 Friday, 24 June 2016, 8 a.m. – 9:30 a.m.
Symposium, Hall E1

Dental Care-Related Fear/Anxiety Research: International Perspectives

Chairpersons: J. Armfield and D. McNeil

- 0824** 8 a.m. Dental Anxiety, Visiting Beliefs and Oral Health in South Australia. J. ARMFIELD* (Australian Research Centre for Population Oral Health, Adelaide, South Australia, Australia)
0825 8:20 a.m. Adolescent Mothers' Dental Fear and Dental Caries in Southern Brazil. H. SCHUCH* (ARCPHO, Adelaide, South Australia, Australia)
0826 8:40 a.m. Dental Attendance and Changes in Dental Fear in Finland. V. POHJOLA* (Finnish Dental Society Apollonia, Helsinki, Finland)
0827 9 a.m. Family and Cultural Influences on Dental Fear in USA's Appalachia. D. MCNEIL* (Dental Practice and Rural Health, West Virginia University, Morgantown, West Virginia, USA)
9:20 a.m. Discussion.

Seq#: 116 Friday, 24 June 2016, 8 a.m. – 9:30 a.m.
Symposium, 327A

Evidence-Based Practice Teaching and Learning in the Dental Curriculum

Chairpersons: R. Weyant and M. Wong

- 0828** 8 a.m. High Quality Research Evidence and Dental Education – Uniting the Two. A.-M. GLENNY* (University of Manchester, School of Dentistry, Manchester, United Kingdom)
0829 8:25 a.m. Teaching EBP – the Good, the Bad and the Ugly. A. KEENAN* (College of Dentistry, New York University, Brooklyn, New York, USA)

- 0830** 8:50 a.m. UK's EBD Teacher's Group – Sharing of Curricula and Teaching Initiatives. N. INNES* (Dundee Dental School, University of Dundee, Dundee, Tayside, United Kingdom)
9:15 a.m. Discussion.

Seq#: 117 Friday, 24 June 2016, 8 a.m. – 9:30 a.m.
Symposium, 402

Mineralized Tissue Regeneration: Nano-Interfaces and Bioengineered Materials

Chairpersons: X. Liu and V. Varanasi

- 0831** 8 a.m. Bone Engineering via BMP-2 Gene Delivery. Y.-J. SEOL* (Seoul National University, Seoul, Korea (the Republic of))
0832 8:20 a.m. Application of Structure/Chemical Cues in Biomaterials Design to Realize Bone Formation and Promote Osseointegration. X. JIANG* (Shanghai Jiao Tong University, Shanghai, China)
0833 8:40 a.m. Role of Hydrophilicity of Co-polymer Scaffold on Bone Tissue Engineering. M. YASSIN* (Department of Clinical Dentistry, University of Bergen, Bergen, Norway)
0834 9 a.m. Dual Delivery of miRNA-2861 and FK506 from PLGA/Gel Composite Scaffold to Promote Bone Regeneration. H. SUN* (Jilin University, Jilin, China)
9:20 a.m. Discussion.

Seq#: 118 Friday, 24 June 2016, 8 a.m. – 9:30 a.m.
Symposium, Hall E2

Odontoblast Biology: The Past, Present and Future

Chairpersons: T. Botero and D. Chiego

- 0835** 8 a.m. Human Odontoblasts as Sensory Receptor Cells. F. LUNDY* (Queen's University Belfast, Belfast, United Kingdom)
0836 8:20 a.m. The Odontoblast Layer: Living at the Dentin-pulp Interface. E. COUVE* (University of Valparaiso, Vina del Mar, Chile)
0837 8:40 a.m. Molecular and Epigenetic Regulation of Odontoblast Differentiation. C.-Y. WANG* (Division of Oral Biology & Medicine, University of California - Los Angeles, Los Angeles, California, USA)
0838 9 a.m. Coordination of Tooth Morphogenesis and Neuronal Development through Tissue Interactions. K. LUUKKO* (Clinical dentistry, Orthodontics, University of Bergen, Bergen, Norway)
9:20 a.m. Discussion.

Seq#: 119 Friday, 24 June 2016, 8 a.m. – 9:30 a.m.
Symposium, Hall E3

Pathogenicity of Oral Microbes

Chairperson: Y. Ku

- 0839** 8 a.m. P.gingivalis as a Keystone Periodontal Pathogen: A Challenging Note. L. JIN* (Faculty of Dentistry, Periodontology, The University of Hong Kong)
0840 8:20 a.m. Dual Lifestyle of Periodontal Pathogen in Biofilm and Gingival Cells. A. AMANO* (Graduate School of Dentistry, Osaka University, Suita-Osaka, Japan)

- 0841** 8:40 a.m. Oral Microbiota Representing Oral Health Conditions and Host Susceptibility to Periodontitis. Y. YAMASHITA* (Dept. of Preventive Dentistry, Kyushu University Faculty of Dental Science, Fukuoka, Japan)
- 0842** 9 a.m. Antimicrobial Resistance of Fungi in Oral Microbiota. R. CANNON* (Oral Sciences, University of Otago, Dunedin, New Zealand)
- 9:20 a.m. Discussion.

Seq#: 120 Friday, 24 June 2016, 8 a.m. – 9:30 a.m.
Symposium, 403

Saliva and Salivary Glands: How to Make Things New?

Chairpersons: S. Cha, J. Ferreira, M. Lee and W. Siqueira

- CE0843** 8 a.m. The Magnetic Steering Journey From Stem Cells to Salivary Gland Organoids. J. FERREIRA* (Oral & Maxillofacial Surgery, National University of Singapore, Singapore, Singapore)
- CE0843.1** 8:20 a.m. How to Bioengineer Salivary Glands. M. OGAWA* (Organ Technologies Inc, Tokyo, Japan)
- CE0844** 8:40 a.m. Ca²⁺ Channels (Tmem16a) in Acinar Physiology. M.G. LEE* (Yonsei University College of Medicine, Seoul, Korea (the Democratic People's Republic of))
- CE0845** 9 a.m. Bone Marrow Soup Repairs Irradiated-injured Salivary Glands. Y. SUMITA* (Nagasaki University, Nagasaki, Japan)
- 9:20 a.m. Discussion.

Seq#: 121 Friday, 24 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 203

Cariology Research-Erosion – Keynote Address; Cariology Research-Erosion I

Chairpersons: A. Hara and A. Wiegand

- 0846** 8 a.m. Keynote Address: Erosive Tooth Wear and Oral Hygiene-Friends or Foes?. A. WIEGAND* (University of Göttingen, Göttingen, Germany)
- C0847** 8:30 a.m. Influence of Toothbrush Stiffness and Dentifrice Abrasivity on NCCL Development. F. BINSALAH, F. LIPPERT, K. DIFENDERFER, N. COOK, M. BOTTINO, A. HARA* (School of Dentistry, Indiana University, Indianapolis, USA)
- 0848** 8:45 a.m. Remineralisation of Acid Softened Human Enamel by Calcium Silicate Formulations. K. HORNBLY, A. LIMER, R. WILLSON, A. JOINER* (Unilever Oral Care, Basingstoke, Warrington, United Kingdom)
- 0849** 9 a.m. Chloride Bioactive Glass-based Remineralising Toothpastes. X. CHEN*, N. KARPUKHINA, R. HILL (Dental Physical Sciences Unit, Barts and The London, School of Medicine and Dentistry, London, United Kingdom)
- 0850** 9:15 a.m. A New Remineralizing Calcium Phosphosilicate Additive for Toothpastes. R. HILL*, P. ANDERSON, M. MNEIMNE (Queen Mary University of London, London, United Kingdom)

Seq#: 122 Friday, 24 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 101

Craniofacial Biology – TMJ Biology & Occlusion

Chairpersons: M. Chen and E. Koyama

- 0851** 8 a.m. TMJ Degenerative Changes in Prg4-null Mice are Associated With Ectopic Hedgehog Signaling. T. BECHTOLD*, C. SAUNDERS, N. KURIO, P. BILLINGS, M. PACIFICI, H.-D. NAH, E. KOYAMA (Research Institute, Orthopaedic Surgery, Children's Hospital of Pennsylvania, Philadelphia, Pennsylvania, USA)
- SE0852** 8:15 a.m. Genomic Profiling of TMJ Stem/Progenitor Cell Regulatory Genes by RNA-Seq. M. CHEN*, Y. ZHOU, L. HE, J. WU, K. CHEN, R. FRIEDMAN, P. GUARNIERI, Z. WANG, X. ZHOU, J. MAO (Center for Craniofacial Regeneration, Columbia University, New York, New York, USA)
- 8:30 a.m. Discussion.
- 0853** 8:45 a.m. Contact Force on Temporomandibular Joint Disc: A Musculoskeletal Model. X. SHE*, F. WEI, Y. WU, N. ZHENG, H. YAO (Clemson-MUSC Bioengineering Program, Clemson University, Charleston, South Carolina, USA)
- S0854** 9 a.m. Fusion Induced Hypertrophy of Skeletal Muscle is Modulated by Pin1. R. ISLAM*, W.-J. YOON, Y. CHO, W.J. KIM, H.-S. BAE, H.-R. SHIN, B. KIM, K.M. WOO, J.-H. BAEK, H.-M. RYOO (Department of molecular genetics, School of Dentistry, Seoul National University, Seoul, Korea (the Republic of))
- 9:15 a.m. Discussion.

Seq#: 123 Friday, 24 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 105

Dental Materials I: Ceramic-based Materials – Processing Methods & Mechanical Behavior of Dental Ceramics: Zirconia, Lithium Disilicate and Porcelain

Chairpersons: A. Abdulmajeed and M. Cattell

- 0855** 8 a.m. Design and Synthesis of New Translucent, High Strength Leucite Glass-Ceramics. X. CHEN, J. ALMUHAMADI, N. KARPUKHINA, R. HILL, M. CATTELL*, A. THEOCHAROPOULOS (Centre for Adult Oral Health, Barts and the London, School of Dentistry, Queen Mary University of London, London, United Kingdom)
- 0856** 8:15 a.m. The Effect of Specimen Size on Flexural Strength of Translucent Zirconia and Lithium Disilicate Ceramics. F. MANTE*, J. CONEJO, T. KOBAYASHI, M. BLATZ (University of Pennsylvania, Philadelphia, Pennsylvania, USA)
- E0857** 8:30 a.m. Viscoelastic Finite Element Estimation of Residual Stresses in Zirconia-Based Crowns. J. KIM*, Y. ZHANG, P. ZHIVAGO (Civil and Environmental Engineering, University of Connecticut, Storrs, Connecticut, USA)
- 0858** 8:45 a.m. Fracture Rate of Layered Zirconia Restorations at 5 Years: A Dental Laboratory Survey. A. ABDULMAJEEED*, T. DONOVAN, R. WALTER, T. SULAIMAN (Department of Prosthetic Dentistry, Institute of Dentistry, University of Turku, Turku, Finland)
- SC0859** 9 a.m. Effect of accelerated aging on two zirconia core materials. A. AZIZ*, D. WOOD, N. BUBB, T.P. HYDE (School of Dentistry, University of Leeds, Leeds, United Kingdom)
- C0860** 9:15 a.m. Retention of Conical Zirconia Double Crown Attachments. S. RUES*, M. SCHMITTER, R. RUSTEMEYER, T. STÖBER, P. RAMMELSBURG, F. SCHWINDLING (Department of Prosthodontics, University of Heidelberg, Heidelberg, Germany)

Seq#: 124 Friday, 24 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 102

Dental Materials 3: Metal-based Materials and Other Materials – Metal-based Materials & Other Materials I

Chairperson: S. Alapati

- 0861** 8 a.m. Mechanical Properties and Cytocompatibility of Porous Titanium Filled With Poly-L-lactide / Biphasic Calcium Phosphate Nanocomposites. D. ZHANG* (Dental Implanting Center, Shandong University, Jinan, China)
- SE0862** 8:15 a.m. Tantalum-modification Enhances Osseointegration and Antibacterial Activity of Titanium Dental Implants. X. ZHANG*, H. LAI (Dept of Oral & Maxillofacial Implantology, The Ninth People's hospital affiliated to Shanghai Jiao Tong University School of Medicine, Shanghai, China)
- C0863** 8:30 a.m. *In Vitro* Investigation of Nanoproperties at Dentin–Pulp Capping Material Interface. S. ALAPATI*, M. IJJIMA, W. BRANTLEY, S. ITO, T. MUGURUMA, T. SAITO, I. MIZOGUCHI (University of Illinois at Chicago, Chicago, Illinois, USA)
- SC0864** 8:45 a.m. Orthodontic Steel Wire Physical Properties After Clinical Use. C. YURI, K. FALTIN JUNIOR, A. CARVALHO, C.L. ORTOLANI* (University Paulista, São Paulo, Brazil)
- S0865** 9 a.m. Current Concept on Remineralisation of Glass Ionomer Cements. R. ALBESHTI*, N. KARPUKHINA (Dental Physical Sciences Unit, Queen Mary University of London, London, United Kingdom)
- 9:15 a.m. Discussion.

Seq#: 125 Friday, 24 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 104

Dental Materials 4: Adhesion – Keynote Address; Reconstruction of Endodontically Treated Teeth & Functional Adhesive Monomers

Chairperson: B. Fu

- 0866** 8 a.m. Keynote Address: State of the Art on Reconstruction of Endodontically Treated Teeth. M. FERRARI* (Tuscan School of Dental Medicine, Piazza Attias, Italy)
- SC0867** 8:30 a.m. Prime-and-rinse Approach for Improving the Dentin MTBS of Self-etch Adhesives. M.X. LI*, J. XU, C. WANG, L. ZHANG, Y. HONG, B. FU (Hospital of Stomatology aff. to College of Medicine, Zhejiang University, Hangzhou, Zhejiang, China)
- C0868** 8:45 a.m. Enamel Etching or Prime-and-rinse Approach for the Self-etching Adhesives. B. FU*, Y. OUYANG, M.X. LI, J. XU (Hospital of Stomatology aff. to College of Medicine, Zhejiang University, Hangzhou, Zhejiang, China)
- 0869** 9 a.m. Etching Efficacy of Self-etching Functional Monomers. K. YOSHIHARA*, S. WATANABE, N. NAGAOKA, T. OKIHARA, S. HAYAKAWA, Y. YOSHIDA, B. VAN MEERBEEK (Okayama University, Okayama, Japan)
- S0870** 9:15 a.m. Influence of FCP-COMPLEX on Bond Strength to Caries-affected Dentin. J. ATOMURA*, G. INOUE, M. IKEDA, T. NIKAIIDO, J. TAGAMI (Cariology and Operative Dentistry, Tokyo Medical and Dental University, TOKYO, Japan)

Seq#: 126 Friday, 24 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 317A

Education Research – Student/Practitioner Learning: Feedback, Reflection, Assessment

Chairpersons: B. Davies and L. Dempster

- E0871** 8 a.m. Being or Becoming an Educational Supervisor of New Dentists in Wales: A Questionnaire Study. E. BARNES, A. BULLOCK*, K. MOONS, J. COWPE, R. HERBERT, A. ROCKEY (School of Social Sciences, Cardiff University, Cardiff, United Kingdom)
- SE0872** 8:15 a.m. An Investigation of Feedback to Students in Postgraduate Dental Education. P. FINE*, A. LEUNG (Department of CPD, UCL Eastman Dental Institute, London, United Kingdom)
- E0873** 8:30 a.m. Improving Student Satisfaction Within a Clinical Setting: Verbal Interaction Style. J. FIELD* (Restorative Dentistry, Newcastle University, Newcastle upon Tyne, Tyne and Wear, United Kingdom)
- E0874** 8:45 a.m. Using Video Vignettes to Enhance Dental Students' Reflective Learning Experiences. B. DAVIES*, K. CHAU, A. LEUNG, M. COX, I. BLUM (Dental Institute, King's College London, London, United Kingdom)
- SE0875** 9 a.m. Feedback, Reflection and Oversight Beneficial for Online Patient Case Diagnosis. F. CROMBIE*, M. BURROW, K. REID, C. DELANY (Dental School, University of Melbourne, Melbourne, Victoria, Australia)
- E0876** 9:15 a.m. Students' Reflections on Communication Strengths, Weaknesses and What They Learned. R. FILICE, L. DEMPSTER* (Faculty of Dentistry, University of Toronto, Toronto, Ontario, Canada)

Seq#: 127 Friday, 24 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 308BC

Global Oral Health Inequalities Research Network – Global Issues & Older Adults

Chairpersons: W. Sohn and G. Tsakos

- 0877** 8 a.m. Psychosocial Inequalities and Oral, Pharyngeal and Laryngeal Cancer Risk. E. JOURY*, W. SABBAH (Population and Patient Health, King's College London, London, United Kingdom)
- SE0878** 8:15 a.m. Globally Unending Poor Oral Health Conditions of the Institutionalized Dependents Elders. Y.-J. YOO* (Harvard School of Dental Medicine, Cambridge, Massachusetts, USA)
- 0879** 8:30 a.m. Influence of Gender and Socioeconomic Status on Smoking, Smokeless Tobacco Use and Alcohol Consumption Among Elderly Indians. V. MATHUR*, V. JAIN, R. PILLAI (WHO CC for Oral Health Promotion, All India Institute of Medical Sciences, New Delhi, India)
- E0880** 8:45 a.m. Global Comparison of Oral Disease Burden to Health Provider Ratios. B. SEYMOUR*, L. SIMON, A. YANSANE, H. BENZIAN (Oral Health Policy and Epidemiology, Harvard School of Dental Medicine, Boston, Massachusetts, USA)
- SE0881** 9 a.m. Socio-Cultural Life-Course Until Head and Neck Cancer: A Multi-Country Analysis. S. MADATHIL, M.-C. ROUSSEAU, B. NICOLAU* (Faculty of Dentistry, McGill University, Montreal, Quebec, Canada)
- 9:15 a.m. Discussion.

Seq#: 128 Friday, 24 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 208

Implantology Research – Prospective Studies on Dental Implants II

Chairpersons: M. Karl and A. Ozkomur

C0882 8 a.m. Hardware Complications and Failure of Three-unit Zirconia-based and Porcelain-fused-metal Implant-supported Prostheses: A Retrospective Cohort Study With up to 8 Years. J.-Y. SHI*, H. LAI (Department of dental implantation, Shanghai Ninth People's Hospital, Shanghai Jiaotong University, Shanghai, China)

C0883 8:15 a.m. Anterior Jaw Bone Resorption with Different Overdenture Attachment Systems
. V. JAIN*, O. BHUTIA, V. MATHUR, R. PILLAI (Center for Dental Education and Research, All India Institute of Medical Sciences, New Delhi, India)

0884 8:30 a.m. Bone Adaptation Induced By Non-Passively Fitting Implant Superstructures – Results From A Randomized Clinical Trial. M. KARL*, T. TAYLOR (University of Erlangen-Nuremberg, Erlangen, Germany)

SC0885 8:45 a.m. Clinical Outcomes of Implant-supported Fixed Complete Dentures: A Prospective Study. A. OZKOMUR*, M.P. COLTRO, E.R. TEIXEIRA, R. SHINKAI (Pontifical Catholic University of Rio Grande do Sul (PUCRS), Porto Alegre, Brazil)

C0886 9 a.m. CBCT Evaluation of Safe Zone in Relation to Genial Tubercle for Implant Osteotomy in Interforaminal Region of the Mandible: A Study in Chinese-Malaysian Population. Y. VOON, P. PATIL* (Division of Clinical Dentistry, School of Dentistry, International Medical University, Kuala Lumpur, Malaysia)

9:15 a.m. Discussion.

Seq#: 129 Friday, 24 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 307BC

Microbiology / Immunology – Microbiology/Immunology-Host Response to Pathogens

Chairpersons: N. Kantrong and K. Tan

SE0887 8 a.m. Multiple Toll-Like Receptors (TLRs) are Required for CXCL-8 Induction in Gingival Epithelial Cells. N. KANTRONG*, S. COATS, R. DARVEAU (Oral Health Sciences, University of Washington, Seattle, Washington, USA)

0888 8:15 a.m. Response of Human Periodontal Ligament Stem Cells to Two Different *Porphyromonas gingivalis* Lipopolysaccharide Preparations. O. ANDRUKHOV*, S. YOUNES ABHARI, P.Q. NGUYEN, A. MORITZ, X. RAUSCH-FAN (University Clinic of Dentistry, Medical University of Vienna, Vienna, Austria)

SE0889 8:30 a.m. Proinflammatory Role of NLRP10 in HOK-16B Cells Under the Infection of *Tannerella forsythia*. S. LEE*, Y. CHOI, H. JUN, B. CHOI (School of Dentistry, Seoul National University, Seoul, Korea (the Republic of))

0890 8:45 a.m. Feasibility of *HimarI* Transposon Mutagenesis in *Aggregatibacter Actinomycetemcomitans*. K.S. TAN*, Q. DING (Faculty of Dentistry, National University of Singapore, Singapore, Singapore)

SC0891 9 a.m. IL-37 Single Nucleotide Polymorphisms are Associated With Hyper-Inflammatory Trait in Caucasians. S. KIM*, W. SEAMAN, S. ZHANG, J. MARCHESAN, Y. JIAO, K. MOSS, K. DIVARIS, S. BARROS, S. OFFENBACHER (Periodontology, University of North Carolina, Chapel Hill, North Carolina, USA)

SC0892 9:15 a.m. Controlled Redox and Hemin Utilization Essential for *Porphyromonas gingivalis* Persistence. P. LI*, Y.M.E. FUNG, C. SENEVIRATNE, C.M. CHE, L. JIN (Faculty of Dentistry, The University of Hong Kong)

Seq#: 130 Friday, 24 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 318B

Neuroscience – Bruxism

Chairperson: T. Kato

0893 8 a.m. Characteristics of Daytime Clenching in Individuals Affected With Myofascial Pain of the Masticatory Muscles and Pain-free Controls During Standardized Ability Tasks. I. CIOFFI, D. LANDINO, V. DONNARUMMA, T. CASTROFLORIO, F. LOBBEZOO, A. MICHELOTTI* (Department of Neuroscience, University of Naples Federico II, Naples, Italy)

0894 8:15 a.m. Effect of Daytime EMG Biofeedback Training on EEG during Sleep. M. FUJISAWA*, H. OTSUKA, M. SATO, K. SAITO, A. WATANABE (Dept. of Rest. & Biomat. Sciences, Meikai University, Saitama, Japan)

C0895 8:30 a.m. Is Sleep Bruxism a Disorder, a Risk Factor for Disorder, or a Behavior?. K. RAPHAEL*, V. SANTIAGO, F. LOBBEZOO (College of Dentistry, New York University, New York, USA)

S0896 8:45 a.m. Sleep Profiles in Young Subjects With Rhythmic Masticatory Muscle Activity. S. HARAKI*, S. NONOUE, A. TSUJISAKA, A. MIKAMI, S. ISHIGAKI, T. MIZUMORI, A. YOSHIDA, H. YATANI, T. KATO (Department of Fixed Prosthodontics, Osaka University Graduate School of Dentistry, Suita, Osaka, Japan)

0897 9 a.m. Rhythmic Masticatory Muscle Activity During Sleep in Animals and Humans. T. KATO*, R. TOYOTA, S. HARAKI, H. YANO, M. HIGASHIYAMA, Y. UENO, F. SATO, H. YATANI, A. YOSHIDA (Department of Oral Anatomy and Neurobiology, Osaka University Graduate School of Dentistry, Suita, Japan)

0898 9:15 a.m. Effect of Occlusal Appliances on Masseter Activity in Symptomatic Subjects. N. LUKIC, S. JANS, D. LUKIC, M. MARKOVA, L. GALLO, D. ETTLIN* (Dept. of Masticatory Disorders, University of Zürich, Zurich, Switzerland)

Seq#: 131 Friday, 24 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, Hall E4

Periodontal Research-Therapy – Intraoral & Systemic Effects of Periodontal Therapy

Chairpersons: M. Geisinger and A. Mombelli

C0899 8 a.m. Anti-microbial Effects of Amoxicillin-metronidazole in Different Phases of Periodontal Therapy. A. MOMBELLI*, A. ALMAGHLOUTH, N. CIONCA, J. CANCELA, C. GIANNOPOULOU (Department of Periodontology, University of Geneva, Geneva, Switzerland)

C0900 8:15 a.m. Clinical and Biochemical Evaluation of Full-Mouth Disinfection in Generalized Aggressive Periodontitis Patients. D. MAMAKLIOĞLU, L. KURU, B. EREN KURU, B. DOGAN* (Periodontology, Marmara University, Istanbul, Turkey)

C0901 8:30 a.m. Influence of Compliance With SPT on PPD and Tooth Loss. S. SONNENSCHEN*, D. SAURE, H. HIERONYMUS, C. BETZLER, T.-S. KIM (Departement of Conservative Dentistry, University Hospital Heidelberg, Heidelberg, Germany)

C0902 8:45 a.m. Adjunctive Effect of Sub-Antimicrobial Dose Doxycycline on Potential Biomarkers of Periodontal Tissue Metabolism. G. EMINGIL*, A. GÜRKAN, T. TERVAHARTIALA, M. HERNANDEZ, T. SORSA (School of Dentistry, Ege University, Izmir, Turkey)

C0903 9 a.m. Oral hygiene regimen reduces clinical pregnancy gingivitis in multicenter RCT.. M. JEFFCOAT, N. TANNA, S. PARRY, M. REDDY, M. GEISINGER*, N. GEURS, J. BIGGIO, J. GRENDER, M. DOYLE, R. GERLACH (Department of Periodontology, SDB 412, University of Alabama at Birmingham, Birmingham, Alabama, USA)

C0904 9:15 a.m. Big-data Analysis on HbA1c Changes in Diabetes Following Periodontal Therapy. J. LEE*, Y.-S. KIM, W.-K. KIM, Y.-K. LEE, S.-H. KIM (Department of Periodontics, Asan Medical Center, Seoul, Korea (the Republic of))

Seq#: 132 Friday, 24 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 401

Periodontal Research-Pathogenesis – Periodontal Research-Pathogenesis: Molecular Mechanisms I

Chairpersons: B. Ganss and M. Mezawa

- 0905** 8 a.m. From Enamel to Junctional Epithelium: Novel Proteins and Their Roles in Enamel Mineralization and Dentogingival Attachment. B. GANSS* (Matrix Dynamics Group, University of Toronto, Toronto, Ontario, Canada)
- S0906** 8:15 a.m. Filamin A Regulates Organization and Remodeling of the Pericellular Collagen Matrix. M. MEZAWA*, V. PINTO, W. LEE, Y. OGATA, C. MCCULLOCH (Periodontology, Nihon university school of Dentistry at Matsudo, Matsudo, Japan)
- S0907** 8:30 a.m. Activation of TRAF3 Interacting Protein 2 (TRAF3IP2) Mediated IL-17 Pathway in Primary Gingival Epithelial Cells and Periodontal Disease. S. ZHANG*, K. DIVARIS, K. MOSS, L. SUN, J. MARCHESAN, T. MORELLI, S. BARROS, N. YU, Y. JIAO, J. BECK, S. OFFENBACHER (Periodontology, School of Dentistry, UNC-Chapel Hill, Chapel Hill, North Carolina, USA)
- S0908** 8:45 a.m. The Effects of Hypoxia on Collagen Production in Gingival Fibroblasts. C. MORIMOTO*, M. TAKEDACHI, S. YAMAMOTO, A. HIRAI, K. SAWADA, T. IWAYAMA, T. NAKAMURA, M. YAMASHITA, S. MURAKAMI (Department of Periodontology, Osaka University Graduate School of Dentistry, Suita, Osaka, Japan)
- S0909** 9 a.m. Investigation of Distinct Fibroblast Populations in the Dentogingival Tissues. E. LU*, M. GHUMAN, I. MILETICH, F. HUGHES (Periodontology, Dental Institute, Kings College London, London, United Kingdom)
- SE0910** 9:15 a.m. Porphyromonas gingivalis Induced-Oxidative Stress in Periodontal Ligament Cells. T. NGUYEN*, D. PUENGSRIN, S. SEUBBUK, R. SURARIT (Faculty of Dentistry, Mahidol University, Bangkok, Thailand)

Seq#: 133 Friday, 24 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 308A

Pharmacology /Therapeutics/Toxicology – Keynote Address; Development of Drugs for Local Treatment of Oral Conditions

Chairpersons: E. Lynch and F. Sandra

- 0911** 8 a.m. Keynote Address; Development of Drugs for Local Treatment of Oral Conditions. W.P. HOLBROOK* (Faculty of Odontology, University of Iceland, Reykjavik, Iceland)
- C0912** 8:30 a.m. Improved Tooth Bleaching Combining Ozone With Hydrogen Peroxide. M. AL-OMIRI, R. ABUL HASSAN, E. LYNCH* (Warwick, Coventry, United Kingdom)
- S0913** 8:45 a.m. Antioxidant Activities of Bromelain Extracted From Ananas Comosus and its Potential as an Anti-inflammatory Agent, Anti-carcinogenic Agent of Oral Cancer. J. LEE*, J.-B. LEE, J.-T. LEE, H.-R. PARK, J.-B. KIM (Department of Preventive and Community Dentistry, Pusan National University, Yongsan, Korea (the Republic of))
- 0914** 9 a.m. RANKL-TNF α -induced and Caffeic Acid-inhibited Second Messengers in Osteoclastogenesis Pathways. F. SANDRA* (Department of Biochemistry and Molecular Biology, Faculty of Dentistry, Trisakti University, Jakarta Barat, Indonesia)
- 9:15 a.m. Discussion.

Seq#: 134 Friday, 24 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 318C

Pulp Biology & Regeneration Research – Inflammation & Immunity in the Dental Pulp

Chairpersons: I. El Karim and S. Kim

- C0915** 8 a.m. Gene Expression Profile of the Dental Pulp. J. GALICIA*, B. HENSON, J. PARKER, A. KHAN (Department of Endodontics, University of the Pacific Arthur A. Dugoni School of Dentistry, San Francisco, California, USA)
- S0916** 8:15 a.m. Characterization of Human Dental Pulp Cells Derived from Carious Teeth. H. ALKHARABI*, J. BEATTIE, D. DEVINE, R. EL-GENDY (School of Dentistry, University of Leeds, Leeds, United Kingdom)
- S0917** 8:30 a.m. Autophagy Regulates Odontoblast Differentiation by Suppressing NF- κ B Activation in an Inflammatory Environment. F. PEI*, H. WANG, L. ZHANG, Z. CHEN (Wuhan university, Wuhan, China)
- E0918** 8:45 a.m. Role of NLRP3 Inflammasome in Pathogenesis of Pulpal Disease. S.-M. LEE*, W. PARK, Q. ZHANG, B. KARABUCAK, A. LE (Endodontics, University of Pennsylvania, Philadelphia, Pennsylvania, USA)
- 0919** 9 a.m. TRPV2 Regulates Odontoblast Innate Immune Responses. I. EL KARIM*, T. CURTIS, M. MCGAHON, G. LINDEN, I. ABOUT, F. LUNDY (School of Dentistry, Queen's University of Belfast, Belfast, Ireland)
- 0920** 9:15 a.m. TRPA1 is Involved in the Hydrogen Peroxide-induced Vasodilation in the Feline Dental Pulp. S. KIM*, M. LEE, D. KIM (Conservative Dentistry, Kyungpook National University, Jung-gu, Korea (the Republic of))

Seq#: 135 Friday, 24 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 327B

Stem Cell Biology – Stem Cell Biology & Tissue Engineering

Chairperson: M. Bottino

- S0921** 8 a.m. Effect of PDGF-BB on Periodontal Ligament Stem Cell Cultures. Z. MIHAYLOVA*, P. STANIMIROV, N. ISHKITIEV, V. MITEV, R. TSIKANDELOVA, V. DIMITROVA (Medical University Sofia, Sofia, Bulgaria)
- C0922** 8:15 a.m. Prevascularize Potency of Human Periodontal Ligament Stem Cell Spheroids Cultured on 3D Agarose Plates. Y.-H. LIU*, J. CHEN (Department of Orthodontics, Shanghai Stomatological Hospital, Shanghai, China)
- 0923** 8:30 a.m. Transgenic Expression of EphrinB2 in PDLSCs Modulates Osteogenic Differentiation via Signaling Crosstalk Between EphrinB2 and EphB4 in PDLSCs and Between PDLSCs and Pre-osteoblasts Within Co-culture. C. ZHANG*, S. ZHU, P. WANG, C. LIAO, Y. YANG, B.C. HENG (Faculty of Dentistry, The University of Hong Kong, Hong Kong, China)
- 0924** 8:45 a.m. ASH1L Acts as Regulator During Mesenchymal Stem Cell Fate Decision. L. YE, C. WANG*, B. YIN, P. A (State Key Laboratory of Oral Diseases, West China Hospital of Stomatology, Sichuan University, Chengdu, China)
- S0925** 9 a.m. Klf2 Contributes to the Stemness of Human Mesenchymal Stem Cells. Y. ZHOU*, H. ZHU, H. WANG (Hospital of Stomatology aff. to College of Medicine, Zhejiang University, Hangzhou, Zhejiang, China)
- 9:15 a.m. Discussion.

Seq#: 136 Friday, 24 June 2016, 9:45 a.m. – 10:30 a.m.
Distinguished Lecture Series, Hall D2

Designed Chemical Synthesis and Assembly of Uniform-sized Nanoparticles for Medical Application

0926 9:45 a.m. Designed Chemical Synthesis and Assembly of Uniform-sized Nanoparticles for Medical Application. T. HYEON* (Institute for Basic Science, School of Chemical and Biological Engineering, Seoul National University, Seoul, Korea (the Republic of))

Seq#: 137 Friday, 24 June 2016, 10:45 a.m. – 12:15 p.m.
Hands-on Workshop, 307A

Human Resources for Oral Health: Planning to Address Inequalities

Chairpersons: J. Gallagher, S. Groisman and M. Peres

0927 10:45 a.m. Planning Human Resources for Oral Health - A Public Health Framework. J. GALLAGHER* (Population and Patient Health, KCL Dental Institute, London, United Kingdom)
11:15 a.m. Discussion.

0928 11:30 a.m. Workforce Migration and Inequalities. M. BALASUBRAMANIAN* (Australian Research Centre for Population Oral Health (ARCPHO), University of Adelaide, Adelaide, South Australia, Australia)
12 p.m. Discussion.

Seq#: 138 Friday, 24 June 2016, 10:45 a.m. – 12:15 p.m.
Symposium, Hall E1

Antibacterial and Bioactive Dental Restorative Materials: Do They Really Work?

Chairpersons: D. Chan and A. Sadr

0929 10:45 a.m. Incorporation of Bacterial Inhibitor in Dental Resins. S. IMAZATO* (Graduate School of Dentistry, Osaka University, Osaka, Japan)

0930 11:05 a.m. Antibacterial Dental Restorative Materials - A State of the Art Review. B. SUH* (BISCO, Inc., Schaumburg, Illinois, USA)

0931 11:25 a.m. Antibacterial Agent-containing Adhesives: Inhibition of Oral Pathogens, Changes to the Viability of *S. mutans* Biofilm and Effect on Dentin Bonding. M. GIANNINI* (Department of Restorative Dentistry, University of Campinas, Piracicaba, SP, Brazil)

0932 11:45 a.m. Effects of Bioactive Bonding Restoratives on Prevention of Secondary Caries. A. SADR* (Cariology and Operative Dentistry, Tokyo Medical and Dental University, Tokyo, Japan)
12:05 p.m. Discussion.

Seq#: 139 Friday, 24 June 2016, 10:45 a.m. – 12:15 p.m.
Symposium, Hall E2

Esthetic Considerations for Primary Teeth

Chairperson: Y. Kim

0933 10:45 a.m. Colorimetric Evaluation for Primary Teeth. H.-K. HYUN* (Dept. of Pediatric Dentistry, Seoul Nat'l University Dental Hospital, Seoul National University, Seoul, Korea (the Republic of))

0934 11:05 a.m. Color Change of Traumatized Teeth. H.H. LEE* (Asan Medical Center, Seoul, Korea (the Republic of))

0935 11:25 a.m. Esthetic Demand of Young Patients. Y.J. KIM* (Pediatric Dentistry, Seoul National University, Seoul, Korea (the Republic of))

0936 11:45 a.m. Zirconia Crown for Ant./Post. Primary Teeth. S.-K. KIM* (Haeundae Children's Dental Center, Busan, Korea (the Republic of))

12:05 p.m. Discussion.

Seq#: 140 Friday, 24 June 2016, 10:45 a.m. – 12:15 p.m.
Symposium, Hall E3

Immunomodulatory Role of Dental Stem Cells

Chairpersons: T. Botero and D. Chiego

0937 10:45 a.m. Heterogeneity of Dental Pulp Stem Cells: Bar Coding and Tracking Stem Cells. A. SLOAN* (School of Dentistry, Cardiff University, Cardiff, United Kingdom)

0938 11:10 a.m. Immunoregulatory Role of Stem Cells of the Apical Papilla. N. RUPAREL* (Dept. of Endodontics, UTHSCSA, San Antonio, Texas, USA)

0939 11:35 a.m. Dental Mesenchymal Stem Cells Possess Regenerative and Immunomodulatory Properties. S. SHI* (Anatomy and Cell Biology, University of Pennsylvania, Philadelphia, Pennsylvania, USA)

12 p.m. Discussion.

Seq#: 141 Friday, 24 June 2016, 10:45 a.m. – 12:15 p.m.
Symposium, 327A

Microenvironments for Mineralized Tissue Engineering

Chairperson: D. Oh

0940 10:45 a.m. Bone Reconstruction Using Microstructural Hydroxyapatite Granules. A. MESSINA* (Studio Ettore Marini, Rome, Italy)

0941 11:05 a.m. Socket Preservation for Implant. D. HAAM* (Columbia University, New York, New York, USA)

0942 11:25 a.m. Enhanced Bone Formation in Ovariectomy-induced Osteoporosis in a Rat Model. C. BAE* (Chonnam National University, Gwangju, Korea (the Republic of))

0943 11:45 a.m. Greater Bone Formation of Porous Tantalum Implant in Canine Model. J.W. LEE* (Zimmer Dental Inc., Zimmer Biomet, Palm Beach Gardens, Florida, USA)

12:05 p.m. Discussion.

Seq#: 142 Friday, 24 June 2016, 10:45 a.m. – 12:15 p.m.
Symposium, 327B

Periodontal Pathogens and Modulation of Host Immune Responses

Chairpersons: J. Choi and Y. Choi

0944 10:45 a.m. Comparative Genomic Analysis of Phylogroup I Oral Treponeme Strains. Y. CHAN* (Oral Biosciences, Faculty of Dentistry, University of Hong Kong, Hong Kong, China)

0945 11:05 a.m. The Homeostatic Factor Del-1 Regulates Osteoclastogenesis and Inhibits Bone Loss in Periodontitis. J. SHIN* (Department of Microbiology, Penn Dental Medicine, University of Pennsylvania, Philadelphia, Pennsylvania, USA)

0946 11:25 a.m. Flagellin and Mucosal Vaccine for Periodontal Diseases. S.E. LEE* (Department of Pharmacology and Dental Therapeutics, Chonnam National University, Gwangju, Korea (the Republic of))

0947 11:45 a.m. Epitope Spreader Pp19-specific CD4+ CD25high Foxp3high CD45RA- Regulatory T Cells Meliorate P. gingivalis-triggered Atherosclerosis and Rheumatoid Arthritis in Humanized NOD/LtSz-scid IL2R Gamma Null Mice. J. CHOI* (Dept. of Periodontology, Pusan National University, Yangsan, Korea (the Republic of))

12:05 p.m. Discussion.

Seq#: 143 Friday, 24 June 2016, 10:45 a.m. – 12:15 p.m.
Symposium, 403

Stem Cells and Biomedical Engineering

Chairpersons: K. Mustafa and A. Stavropoulos

0948 10:45 a.m. Functionalized Scaffolds for Bone Tissue Engineering. S. SULIMAN* (Tissue Engineering Research Group, Dept. of Clinical Dentistry, University of Bergen, Bergen, Norway)

0949 11:10 a.m. A Novel Composite Scaffold for Bone Tissue Engineering. A. ELSEBAHY* (Tissue Engineering Research Group, Dept. of Clinical Dentistry, University of Bergen, Bergen, Norway)

0950 11:35 a.m. Clinical Trial With Biomaterial and MSC for Bone Regeneration. C. GUDVEIG GJERDE* (Tissue Engineering Research Group, Dept. of Clinical Dentistry, University of Bergen, Bergen, Norway)

12 p.m. Discussion.

Seq#: 144 Friday, 24 June 2016, 10:45 a.m. – 12:15 p.m.
Symposium, Hall E5

Translational Regenerative Approaches for Dental and Craniofacial Applications

Chairpersons: M. Bottino and P. Coelho

0951 10:45 a.m. Translational Science in Regenerative Endodontics. A. DIOGENES* (Department of Endodontics, University of Texas at San Antonio, USA)

0952 11:10 a.m. Bioactive Scaffolds for Root Canal Disinfection and Dental Pulp Tissue Engineering. M. BOTTINO* (School of Dentistry, Indiana University, Indianapolis, USA)

0953 11:35 a.m. 3D Biofabrication and Microfluidics-based Strategies to Regenerate Vascularized Craniofacial Tissues. L. BERTASSONI* (Biomaterials and Biomechanics, Oregon Health & Science University, Portland, Oregon, USA)

12 p.m. Discussion.

Seq#: 145 Friday, 24 June 2016, 10:45 a.m. – 12:15 p.m.
Oral Session, 308BC

Behavioral, Epidemiologic, and Health Services Research – Determinants of Caries

Chairpersons: P. Arrow and A. Dasanayake

S0955 10:45 a.m. Impact of Socioeconomic Status, Access to Community Water Fluoridation, and Access to Dental Health Professionals on Potentially Preventable Dental Hospitalisations of Young Children. J. ROGERS*, M. MORGAN, F. WRIGHT, K. ROBERTS-THOMSON, G. ADAMS (Melbourne Dental School, The University of Melbourne, Carlton, Victoria, Australia)

0956 11 a.m. Developmental Enamel Defects and Child Oral Health-related Quality of Life and Caries Experience: A Longitudinal Study. P. ARROW* (Dental Health Services, Health Department, Perth, Western Australia, Australia)

SE0957 11:15 a.m. Exploring Neighbourhood Determinants of Dental Caries Using Spatial Microsimulation Modelling. T. BROOMHEAD*, D. BALLAS, S. BAKER (School of Clinical Dentistry, University of Sheffield, England, UK)

C0958 11:30 a.m. Caries and Fluorosis in Minority Children in Two Sri Lankan Villages With High Fluoride Levels in Surface Water. S. RAJAPAKSE, A. DASANAYAKE*, R. CHANDRAJITH, C. GOONARATNA (New York University, New York, USA)

E0959 11:45 a.m. Determinants Social Health Affecting Dental Caries at Rural and Urban Areas. R.P. FADILAH*, A. NAWAWI (Public Health, University of Jenderal Achmad Yani, Cimahi, West Java, Indonesia)

12 p.m. Discussion.

Seq#: 146 Friday, 24 June 2016, 10:45 a.m. – 12:15 p.m.
Oral Session, 105

Dental Materials 2: Polymer-based Materials – Keynote Address; Dental Materials: Polymer-based Materials III

Chairpersons: R. Carvalho and G. Fleming

0960 10:45 a.m. Keynote Address: Fundamentals of Nanofibre-reinforced Composites. R. CARVALHO* (University of British Columbia, Vancouver, British Columbia, Canada)

0961 11:15 a.m. Fracture Toughness of Seven Resin Composites Evaluated by Three Methods of Mode I Fracture Toughness (K_{IC}). R. BAGHERI*, J. PALAMARA, M. FANI (Dental Materials, Shiraz University of Medical Sciences, Shiraz, Iran (the Islamic Republic of))

0962 11:30 a.m. The Accuracy and Precision of Wear Facet Analysis When Used in Dentistry. G. FLEMING* (Materials Science Unit, University of Dublin, Dublin, Ireland)

0963 11:45 a.m. Effect of Fiber Reinforced Composite Resin Restoration, Composite Resin Inlay or CAD CAM Composite Resin Inlay Restoratives on Fracture Resistance of Endodontically Treated Molar Teeth. H. YURDAGÜVEN*, B. DIKICI, E. BASER CAN, M. SOYMAN (Restorative Dentistry, Yeditepe university, Faculty of Dentistry, Istanbul, Turkey)

SE0964 12 p.m. Rheological Properties of Dental Composites Derived From Their Slumping. E. TALMA, Y.C. HEO*, B. HOLMES, J.B. NOVAES JUNIOR, A. FOK, M. DE CASTRO MAGALHAES (Restorative Sciences, University of Minnesota, Minneapolis, Minnesota, USA)

Seq#: 147 Friday, 24 June 2016, 10:45 a.m. – 12:15 p.m.
Oral Session, 102

Dental Materials 5: Biocompatibility and Biologic Effects of Materials – Keynote Address; Biocompatibility & Biologic Effects of Traditional & New Dental Materials

Chairperson: Y. Liu

0965 10:45 a.m. Keynote Address: How to Improve the Biocompatibility of Dental Materials. G. SCHMALZ* (University Clinics, Regensburg, Germany)

0966 11:15 a.m. Single-layer graphene enhances the osteogenic differentiation of human MSCs. Y. LIU*, T. CHEN, C. XIONG, Y. ZHOU (Prosthodontics, Peking University School of Stomatology, Beijing, China)

C0967 11:30 a.m. Nanostructure of Mineralized Collagen Regulates Macrophage Polarization During Bone Regeneration. Y. LIU*, Y. SUN, Y. ZHOU (Center for Craniofacial Stem Cell Research and Regeneration, Department of Orthodontics, Peking University School and Hospital of Stomatology, Beijing, China)

0968 11:45 a.m. Transcriptomic Analysis of Bronchial Epithelial Cells Suggest Increased Oxidative Stress and Protein Misfolding After Exposure to HEMA. J.T. SAMUELSEN*, H. VALEN, B. OLDERBØ, R. BECHER (NIOM, Oslo, Norway)

12 p.m. Discussion.

Seq#: 148 Friday, 24 June 2016, 10:45 a.m. – 12:15 p.m.
Oral Session, 104

Dental Materials 8: Clinical Trials – Keynote Address;
Clinical Trials: Clinical Performance of Adhesives & Composites

Chairpersons: J. De Munck and A. Peschke

0969 10:45 a.m. Keynote Address: Do Physical Parameters Predict the Fractures and Wear of Composite Restorations?. S. HEINTZE* (Ivoclar Vivadent AG, Bendererstrasse, Liechtenstein)

0970 11:15 a.m. Nine-year Clinical Performance of a HEMA-free One-step Self-etch Adhesive. K. VAN LANDUYT, J. DE MUNCK*, M. PEUMANS, B. VAN MEERBEEK (Dept. of Oral Health Sciences, KU Leuven (University of Leuven), Leuven, Belgium)

0971 11:30 a.m. Clinical Performance of Posterior Bulk Fill Composite Restorations over 3 Years. A. PESCHKE*, R. WATZKE, L. ENGGIST (Research & Development, Ivoclar Vivadent AG, Schaan, Liechtenstein)

0972 11:45 a.m. Twenty-four Month Clinical Comparison of Bulkfilled and Nanofilled Composite Restorations. A.R. YAZICI*, S. ANTONSON, Z. KUTUK, E. ERGIN (School of Dentistry, Department of Restorative Dentistry, Hacettepe University, Ankara, Turkey)

S0973 12 p.m. Eighteen Month Clinical Evaluation of Different Bulkfill Restorative Resins. T. GUNEY*, A.R. YAZICI (Restorative Dentistry, Hacettepe University, School of Dentistry, Ankara, Turkey)

Seq#: 149 Friday, 24 June 2016, 10:45 a.m. – 12:15 p.m.
Oral Session, 317A

Diagnostic Sciences – Diagnostic Sciences II

Chairperson: Y. Gan

0974 10:45 a.m. Tooth Axis Calculation From CT Images. D. ZHANG, Z. XIA, Y. GAN*, J. XIONG, J. TAN (Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, Shenzhen, Guangdong, China)

0975 11 a.m. Handheld, Portable X-Ray Unit Feasibility in a Dental School Clinic. B. WARNER*, M. MILLER, W. ZHANG, J. GUTIERREZ, J. SUTTON (General Practice and Dental Public Health, University of Texas School of Dentistry at Houston, Houston, Texas, USA)

C0976 11:15 a.m. Early Diagnosis of Proximal Caries Lesions in the Primary Molar With Qray Pen™. S.Y. AN*, Y.-S. SHIM, J.-T. PARK, J.-A. RO, S.-B. PARK (Pediatric Dentistry, Wonkwang University, Daejeon, Korea (the Republic of))

SE0977 11:30 a.m. Comparison of Protocols for Neural Differentiation of Dental-pulp Stem Cell. T. THIRUVALLUR MADANAGOPAL*, V. ROSA (Faculty of Dentistry - Oral Sciences, National University of Singapore, Singapore, Singapore)

SC0978 11:45 a.m. Detection of Fluorescence on the Surface of Failed Dental Implants. H.-M. KU*, M.-K. JUN, J.-H. KIM, H.-K. KWON, B.-I. KIM (Departments of Preventive Dentistry & Public Oral Health, Yonsei University College of Dentistry, Seoul, Seodaemun-Gu, Korea (the Republic of))

SC0979 12 p.m. Optical Spectroscopy to Detect Changes in Rats Hard Tissues With Osteoporosis. F. ROSSI PAOLILLO, R.A. ROMANO, L. DE MATOS, A. DE SOUZA RASTELLI, A.A. MARTIN, J. CAIADO DE CASTRO NETO, V. SALVADOR BAGNATO* (Physics and Materials Science, Physics Institute of São Carlos - IFSC, University of São Paulo - USP, São Carlos, São Paulo, Brazil)

Seq#: 150 Friday, 24 June 2016, 10:45 a.m. – 12:15 p.m.
Oral Session, 308A

Evidence-based Dentistry Network – Evidence-based Research I

Chairpersons: A. Keenan and M. Wong

0980 10:45 a.m. Results of Randomised Trial on Caries Preventive Regime for Infants. H. WORTHINGTON*, M. TICKLE, C. O'NEILL, M. DONALDSON, S. BIRCH (School of Dentistry, University of Manchester, Manchester, United Kingdom)

C0981 11 a.m. Directly Placed Load-bearing Restorations: A Systematic Review and Network Meta-Analysis. G. GÖSTEMEYER*, U. BLUNCK, S. PARIS, L.-Y. HSU, Y.-K. TU, F. SCHWENDICKE (Department of Operative and Preventive Dentistry, Charite University, Berlin, Germany)

E0982 11:15 a.m. Translation of Structured Research on Biological Mediators in Tooth Movement. P. KAPOOR*, N. MONGA, S. KAPILA, R. MOGANTY, R. MIGLANI, O. KHARBANDA (Dept of Orthodontics, Faculty of Dentistry, Jamia Millia Islamia, New Delhi, India)

SE0983 11:30 a.m. Integrating EBP into Oral Health Curriculum: Perspectives and Challenges. G. WONG*, M. PRINT, T. GERZINA (Faculty of Dentistry, University of Sydney, Sydney, New South Wales, Australia)

S0984 11:45 a.m. Published Primary Outcomes in Cariology Trials 1968-2015: A Systematic Review. C. LEVEY*, N. INNES, F. SCHWENDICKE, T. LAMONT, G. GÖSTEMEYER (Dundee Dental School, University of Dundee, Dundee, Tayside, United Kingdom)

Seq#: 151 Friday, 24 June 2016, 10:45 a.m. – 12:15 p.m.
Oral Session, 203

Geriatric Oral Research – Keynote Address; Geriatric Oral Health, Health and Occlusion

Chairpersons: G. McKenna and A. Papas

C0985 10:45 a.m. Keynote Address: Association of Occlusal Condition With Cognition in Older People. K. IKEBE* (Department of Prosthodontics, Gerodontology and Oral Rehabilitation, Osaka University Graduate School of Dentistry, Suita, Osaka, Japan)

S0986 11:15 a.m. Influence of Occlusal Support on Cognitive Decline: A Longitudinal Study. K. HATTA*, Y. MIHARA, K. IKEBE, C. INOMATA, H. TAKESHITA, T. OGAWA, K. MATSUDA, Y. GONDO, Y. MASUI, H. INAGAKI, K. KAMIDE, T. ISHIZAKI, Y. ARAI, Y. MAEDA (Department of Prosthodontics, Gerodontology and Oral Rehabilitation, Osaka University Graduate School of Dentistry, Suita, Japan)

E0987 11:30 a.m. Bidirectional Relationship Between Renal Function and Periodontal Disease in Older Japanese Women. A. YOSHIHARA*, M. IWASAKI, H. MIYAZAKI, K. NAKAMURA (Department of Oral Health and Welfare, Niigata University Graduate School of Medical and Dental Sciences, Niigata City, Japan)

O988 11:45 a.m. Tooth Replacement for Partially Dentate Elders: Quality of Life Outcomes After 2 Year Follow-up. G. MCKENNA*, M. CRONIN, C. DAMATA, M. HAYES, F. ALLEN (Centre for Public Health, Queens University Belfast, Belfast, United Kingdom)

C0989 12 p.m. Effect of Denture Status on Survival of Nutritional Study Participants. A. PAPAS* (School of Dental Med., Tufts University, Boston, Massachusetts, USA)

Seq#: 152 Friday, 24 June 2016, 10:45 a.m. – 12:15 p.m.
Oral Session, 208

Implantology Research – Implantology Research: Biofilm, Mouthrinses, Basic Science

Chairperson: D. Herrera

O990 10:45 a.m. *In Vitro* Evaluation of Er:YAG Laser Application on Biofilm Removal of Titanium Surfaces. S. EICK*, P. BENDER, F. SPOERLÉ, G. SALVI, A. SCULEAN (Department of Periodontology, University of Bern, Bern, Switzerland)

C0991 11 a.m. *In Vitro* Biofilm Formation on Different Inorganic Biomaterial Surfaces. A. LLAMA-PALACIOS, M. SÁNCHEZ-BELTRÁN, E. FIGUERO, M. SANZ, D. HERRERA* (ETEP Research Group, University Complutense, Madrid, Spain)

SC0992 11:15 a.m. Microbial Ecology of Peri-implantitis: Modelling Microcosm Biofilms. V. SOUSA*, D. SPRATT, N. MARDAS, N. DONOS (Clinical Research, Periodontology Unit, University College London, London, United Kingdom)

C0993 11:30 a.m. Antimicrobial Mouthrinses: Are They Safe for Dental Implants? E. ERCAN*, T. ARIN, K. INAN BEKTAS, S. CANAKCI, A. CANAKCI (Department of Periodontology, Karadeniz Technical University, Trabzon, Turkey)

SE0994 11:45 a.m. Propranolol Enhances Bone Healing and Implant Osseointegration; an *in vivo* Study on Rats' Tibiae. A. AL SUBAIE, M. LAURENTI, M.-N. ABDALLAH, H. EIMAR, I. TAMIMIMARINO, F. YAGHOUBI, N. MAKHOUL, F. TAMIMI* (Faculty of Dentistry, McGill University, Montreal, Quebec, Canada)

SC0995 12 p.m. Inductively Coupled Plasma Mass Spectrometry Detects Zirconium and Titanium Elements in Peri-implant Mucosa. N. CIONCA*, D. HASHIM, J. MEYER, S. MICHALET, A. MOMBELLI (Department of Periodontology, University of Geneva, Geneva, Switzerland)

Seq#: 153 Friday, 24 June 2016, 10:45 a.m. – 12:15 p.m.
Oral Session, 307BC

Microbiology / Immunology – Microbiology/Immunology-Virulence Properties

Chairpersons: A. Fouad and J. Kim

E0996 10:45 a.m. Indonesian Strain *Lactobacillus reuteri*-derived Reuterin Reduces Interleukin-8 Expression of Inflamed-HaCat Cells. A. WIDYARMAN*, F. SANDRA, E. BACHTIAR, B. BACHTIAR (Microbiology, Faculty of Dentistry Trisakti University, Jakarta, DKI Jakarta, Indonesia)

O997 11 a.m. Regulation of Acetate Metabolism by CdpY and CcpA in *Streptococcus mutans*. J.N. KIM*, R. BURNE (College of Dentistry - Oral Biology, University of Florida, Gainesville, Florida, USA)

SE0998 11:15 a.m. Influence of Dental Monomers on Virulent Properties of *Streptococcus mutans*. K. KIM*, S. CHO, S. AHN (Oral Microbiology and Immunology, Seoul Nat Univ, Seoul, Korea (the Republic of))

E0999 11:30 a.m. Royal Jelly Inhibits *Pseudomonas aeruginosa* Adherence and Reduces Excessive Inflammatory Responses in Human Epithelial Cells. H. SUSLOWATI*, K. MURAKAMI, H. YUMOTO, T. AMOH, K. HIROTA, T. MATSUO, Y. MIYAKE (Oral Biology, Gadjah Mada University, Faculty of Dentistry, Sleman, DI Yogyakarta, Indonesia)

I000 11:45 a.m. Comparison of Endodontic, Periodontal and Atheromatous Plaque Microbiota in Atherosclerotic Patient. A. FOUAD*, E. MONGODIN, L. HITTLE, B. LAL, W. INGE (Endodontics, University of North Carolina, Chapel Hill, North Carolina, USA)

12 p.m. Discussion.

Seq#: 154 Friday, 24 June 2016, 10:45 a.m. – 12:15 p.m.
Oral Session, Hall E4

Mineralized Tissue – Mineralized Tissue Disorders & Regeneration

Chairpersons: S. Kwak and Y. Lu

I001 10:45 a.m. Molecular Pathogenesis Underlying DGI Type II Associated with DSPP Mutations. T. LIANG, S. WANG, H. ZHANG, T. MENG, C. QIN, Y. LU* (Dept. of Biomedical Sciences, Texas A&M University Baylor College of Dentistry, Dallas, Texas, USA)

E1002 11 a.m. Dentoalveolar Defects in Mouse Models of Osteogenesis Imperfecta. H. XU*, B. FOSTER, A. COULTER, M. AO, H. WIMER, W. CABRAL, A. BARNES, A. BOSKEY, J. SHAPIRO, R. MORELLO, J. MARINI, M. SOMERMAN (Department of Pediatric Dentistry, Peking University School and Hospital of Stomatology, Beijing, China)

I003 11:15 a.m. FAM20C Regulates Cellular Behavior and Signaling in Cell-autonomous Manner. C. LIU*, H. ZHANG, P. JANIL, X. WANG, Y. LU, C. QIN (Biomedical Sciences, Baylor College of Dentistry, Dallas, Texas, USA)

E1004 11:30 a.m. Humanized Laminin- γ 2 Mouse Model Exhibits Enamel Maturation Defects. R. WAZEN, L. VIEGAS-COSTA, A. FOUILLEN, P. MOFFATT, T. ADAIR-KIRK, R. SENIOR, A. NENCI* (Faculty of Dentistry, Université de Montréal, Montreal, Quebec, Canada)

I005 11:45 a.m. Biomimetic Enamel Regeneration Using phosphorylated-LRAP. S.-Y. KWAK*, A. LITMAN, H. MARGOLIS (The Forsyth Institute, Cambridge, Massachusetts, USA)

SE1006 12 p.m. Fabrication of Hierarchically-ordered Enamel-like Crystals for Novel Dental Restorative Materials. S. ELSHARKAWY*, M. AL-JAWAD, S. AGARWAL, E. TEJEDA-MONTES, K. SHUTURMINSKA, R. SANCHEZ, N. TARAKINA, R. WILSON, A. BUSHBY, M. STEVENS, P. ANDERSON, A. MATA (Institute of Bioengineering, Queen Mary University of London, London, United Kingdom)

Seq#: 155 Friday, 24 June 2016, 10:45 a.m. – 12:15 p.m.
Oral Session, 317BC

Oral Health Research – Health Services Research

Chairpersons: S. Spivakovsky and K. Wanyonyi

E1007 10:45 a.m. Developing a Knowledge Related Oral Health and Literacy Scale. S. SPIVAKOVSKY*, M. JANAL (Oral Medicine, NYU College of Dentistry, Brooklyn, New York, USA)

SI008 11 a.m. Electronic Dental Records for Primary Care Research: Validation and Limitations. K. WANYONYI*, D. RADFORD, J. GALLAGHER (Dental Public Health, King's College London Dental Institute, London, United Kingdom)

11:15 a.m. Discussion.

E1009 11:30 a.m. Challenges Facing Dentistry in Sudan. N. NURELHUDA* (Dental Public Health, University of Khartoum, Khartoum North, Khartoum, Sudan)

I010 11:45 a.m. Train the Trainer to Train the Student. S. MUDDAIAH KANJITHANDA* (Orthodontics & Dentofacial Orthopedics, Coorg Institute of Dental Sciences, Virajpet, India)

12 p.m. Discussion.

Seq#: 156 Friday, 24 June 2016, 10:45 a.m. – 12:15 p.m.
Oral Session, 318B

Pediatric Oral Health Research – Pediatric Oral Health Research: Randomized Clinical Trials, Behavioral Factors & Clinical Outcomes

Chairpersons: D. Chi and L. Foster Page

I011 10:45 a.m. Milk sweetened with xylitol: a proof-of-principle caries prevention RCT. D. CHI*, G. ZEGARRA, E. VASQUEZ HUERTA, J. CASTILLO, P. MILGROM, M. ROBERTS, A. CABRERA MATTA, L. MANCL, A. MERINO (Oral Health Sciences, University of Washington, Seattle, Washington, USA)

C1012 11 a.m. Poor Self-perceived Oral Health Associated With Psycho-somatic Complaints and Risk-taking-behaviors. T. KVIST, E.-M. ANNERBÄCK, F. SOARES CUHNA, G. DAHLÖF* (Department of Dental Medicine, Karolinska Institutet, Huddinge, Sweden)

C1013 11:15 a.m. Pediatric Maxillary Analgesia With Insulin Syringe: A Randomized Controlled Trial. D. GURUNATHAN*, J. MOSES, S. KARTHIKEYAN (Pediatric and Preventive Dentistry, Saveetha Dental College, Chennai, Tamil Nadu, India)

C1014 11:30 a.m. A Study on Prevalence and Potential Etiological Factors of Molar Incisor Hypomineralization Among Elementary Students in Soochow China. W. SUI*, J. YUAN, H. WU, Y. HONG (Pediatric Dentistry, Children's Hospital of Soochow University, Suzhou, China)

C1015 11:45 a.m. Calcium Hydroxide Versus Lesion-Sterilization for Indirect -Pulp-Treatment in Primary Molars. I. EL KALLA*, S. AWAD, A. RAGAB (Pediatric Dentistry, Mansoura UN, Elmansoura, Dakahlia, Egypt)

C1016 12 p.m. Acceptability of Resin Infiltration for Primary Molar Caries in a RCT. L. FOSTER PAGE*, W.M. THOMSON, D. BECKETT, R. AHMADI, S. MOFFAT (Department of Oral Sciences, University of Otago, Dunedin, New Zealand)

Seq#: 157 Friday, 24 June 2016, 10:45 a.m. – 12:15 p.m.
Oral Session, 101

Periodontal Research-Diagnosis/Epidemiology – Periodontal Diagnosis

Chairpersons: M. Kebschull and T. Kocher

SI017 10:45 a.m. Salivary Microbially-derived Metabolic Signatures are Linked to Periodontal Inflammatory Status. A. SAKANAKA*, M. KUBONIWA, E. HASHINO, E. FUKUSAKI, A. AMANO (Graduate School of Dentistry, Osaka University, Suita, Osaka, Japan)

I018 11 a.m. Influence of aMMP-8 and Bacteria on Shorter Recall Intervals in Gingivitis Patients. J. STREBEL, R. BÄTTIG*, D. WIEDEMEIER, T. ATTIN, P. SCHMIDLIN (Clinic of Preventive Dentistry, Periodontology and Cariology, Center of Dental Medicine, University of Zurich, Zurich, Switzerland)

SC1019 11:15 a.m. Prediction of Periodontitis With NMR Spectroscopy. M. MCHALE*, T. RAPPE, S. LUNOS, W. GUAN, V. GIANLUIGI, M. COSTALONGA (Department of Developmental and Surgical Sciences, University of Minnesota, Minneapolis, Minnesota, USA)

I020 11:30 a.m. DNA Methylation Patterns in Periodontitis-affected Gingival Tissues. M. KEBSCHULL*, C.-Y. CHEN, P. HOFFMANN, P.N. PAPAPANOU (University of Bonn, Bonn, Germany)

C1021 11:45 a.m. Relationship Between Craniofacial Morphology and Gingival Recession and Attachment Loss. L. SALT, C. PINK, B. HOLTRETER, T. KOCHER*, R. BÜLOW, S. KILIARIDIS, A. DABOUL (Department of Restorative Dentistry, Periodontology, Endodontology, Pedodontics and Primary Prevention, University Medicine Greifswald, Greifswald, Germany)

12 p.m. Discussion.

Seq#: 158 Friday, 24 June 2016, 10:45 a.m. – 12:15 p.m.
Oral Session, 401

Periodontal Research-Pathogenesis – Periodontal Research-Pathogenesis: Molecular Mechanisms II

Chairpersons: M. Grant and D. Kinane

I022 10:45 a.m. Neutrophil Chemotactic Accuracy in Experimental Gingivitis. H. ROBERTS, H. WRIGHT, I. CHAPPLE, M. GRANT* (Dental School, University of Birmingham, Birmingham, United Kingdom)

E1023 11 a.m. Characterization of Aggressive Periodontitis Neutrophils Function During *Aggregatibacter Actinomycetemcomitans* Infection. D. POLAK*, S. BEN SHUSHAN, G. NUSSBAUM, L. SHAPIRA, I. CHAPPLE (periodontology, hadassah medical center - hebrew university, Jerusalem, Israel)

I024 11:15 a.m. Decitabine (5-aza-2'-deoxycytidine) Ameliorates Periodontal Bone Loss. U. TANAKA, M. BENAKANAKERE, D. KINANE* (School of Dental Medicine, University of Pennsylvania, Philadelphia, Pennsylvania, USA)

SE1025 11:30 a.m. Bacteria Caused Bone Loss in a Periodontitis Mouse Model. L. HAO*, M. WANG, W. LOO (Prosthetic, West China College of Stomatology, Sichuan University, Sichuan, People's Republic of China, Chengdu, Sichuan, China)

C1026 11:45 a.m. Periodontitis Induced Coronary Artery Inflammation Atherosclerosis and Intimal Collagen Breakdown *In vivo* and *in Vitro*. I.D. SUSILAWATI* (Biomedical Department Faculty of Dentistry, University of Jember, Jember, East Java, Indonesia)

I027 12 p.m. Adipokine Levels in a High-fat Diet-induced Obesity Model. A. DAMANAKI, M. NOKHBEHSAIM, K. HITHTHETIYA, W. GÖTZ, A. JÄGER, S. JEPSEN, G. WAHL, J. DESCHNER* (Section of Experimental Dento-Maxillo-Facial Medicine, University of Bonn, Bonn, Germany)

Seq#: 159 Friday, 24 June 2016, 10:45 a.m. – 12:15 p.m.
Oral Session, 402

**Prosthodontics Research – Treatment Outcomes With
Implants & Supported Protheses**

Chairperson: A. Zabrovsky

C1028 10:45 a.m. Retrospective Evaluation of Implant-Retained Mandibular Overdentures in Hadassah Dental School Students Clinic. A. ZABROVSKY*, G. BRAUNSTEIN, A. SMIDT, Y. HOURI-HADDAD, I. TAMARY (Prosthodontics, Hadassah Hospital, Jerusalem, Israel)

S1029 11 a.m. Retention and Wear Behavior of Two Implant Overdentures Stud-type Attachment in Various Implant Angulations. J.-W. CHOI*, Y.-C. JEON, C.-M. JEONG, M.-J. YUN, S.-H. LEE, J.-B. HUH (Prosthodontics, School of Dentistry, Pusan National University, Yangsan, Korea (the Republic of))

SE1030 11:15 a.m. A Comparartive Study of *RUNX2* Gene Expression During Early Osseointegration on Unmodified Zirconia and Acid Etched Implants – An Experimental Animal Study. S. ROHINIKUMAR*, V. PERUMAL, D. NALLASWAMY (Saveetha Denatl College, Chennai, India)

SCI031 11:30 a.m. Biometric Guide for Reconstructing the Form of Edentulous Maxillary Arch. O. TAWFIQ*, Z. ISA, R. OMAR, N. ABDULLAH, Y. ZUBAIRI, H. JALAB (Department of Restorative Dentistry, Faculty of Dentistry, University of Malaya, Kuala Lumpur, Kuala Lumpur, Malaysia)

S1032 11:45 a.m. Comparison of Patient Satisfaction, Operator Learning Efficiency and Cost Benefit of Conventional and Turbyfill Technique Fabrication of Complete Denture – A Randomized Controlled, Double Blinded, Cross Over Trial. N. BETTIE, S. SUBRAMANIAN* (prosthodontics and implantolgy, Saveetha dental college, Chennai, Tamil nadu, India)

12 p.m. Discussion.

Seq#: 161 Friday, 24 June 2016, 2 p.m. – 3:15 p.m.
Poster Session, Hall B

**Behavioral, Epidemiologic, and Health Services Research –
Caries Prevention & Oral-Systemic Link**

S1033 Patients' Attitude Toward Diabetes Screening in Thai Dental Clinics. C. TANTIPOJ, N. HIRANSUTHIKUL, S. SUPA-AMORNKUL*, V. LOHSOONTHORN, S.-O. KHOVIDHUNKIT (Mahidol International Dental School, Mahidol University, Rajtawee, Thailand)

1034 Prevalence of Dysglycemia in a Group of Thai Dental Patients. S. KHOVIDHUNKIT*, N. HIRANSUTHIKUL, V. LOHSOONTHORN, S. SUPA-AMORNKUL, C. TANTIPOJ (Advanced General Dentistry, Faculty of Dentistry, Mahidol University, Rajthawee, Bangkok, Thailand)

S1035 Chewing Ability and Cardiovascular Disease Incidence: A Three-year Cohort Study. Y. SATO*, J. AIDA, T. TSUBOYA, T. YAMAMOTO, K. KONDO, Y. MATSUYAMA, S. KOYAMA, K. OSAKA (Department of International and Community Oral Health, Tohoku University Graduate School of Dentistry, Miyagi, Sendai, Japan)

1036 Age-dependent Association Between Culture and Caries Experience in Dutch Adults. E. VERRIPS*, A. SCHULLER (TNO, Amsterdam, Netherlands)

SCI037 Power Relationships and Dental Implant Decisions in Saudi Arabia. A. ALZAHIRANI*, B. GIBSON, I. BROOK (School of Clinical Dentistry, University of Sheffield, Sheffield, Southyorkshire, United Kingdom)

SE1038 Infection Control Compliance Among Dental Students in Jeddah, Saudi Arabia. Y. ALJOHANI, A. ALMODAYAN, K. ALFAIFI*, M. EL MADHOUN, M. BASAQR, N. AL-HAZMI (Faculty of Dentistry, King Abdulaziz University, Jeddah, Makkah, Saudi Arabia)

1039 General Health Questionnaire -12 Psychometric Properties of Three Factor Structures. M. SIMANCAS PALLARES*, K. ARRIETA VERGARA (Research Department, Faculty of Dentistry, University of Cartagena, Cartagena, Colombia)

C1040 Assessment of Erosive Wear Lesions Among Gastroesophageal Reflux Disease (GERD) Patients in University Malaya Medical Centre (UMMC). P. SUKUMARAN*, R. VAITHILINGAM, S.N. ABD KAMAR, N.A.N. MOHD ZALANI (Restorative Dentistry, University of Malaya, Kuala Lumpur, Malaysia)

S1041 Jikoshu-Kyofu With One's Own Foul Mouth Odor and Psychological Scales. M. TSURUTA*, T. TAKAHASHI, S. KATAOKA, S. KAKUTA, I. SOH, M. IWASAKI, T. ANSAI (Division of Community Oral Health Development, Kyushu Dental University, Kitakyushu, Japan)

1042 Comparison of Dental Care Utilization of Elderly Migrants and Non-migrants in Germany. G. AARABI*, U. SEEDORF, G. HEYDECKE, D. REISSMANN (Department of Prosthetic Dentistry, University Medical Center Hamburg Eppendorf, Hamburg, Germany)

1043 Effectiveness of Caries Prevention from a 6-Year Water Fluoridation Program. J.-B. KIM*, J. LEE, S.-Y. KIM, E.-J. JUN, J. KIM, S.H. JEONG (Dept. of Preventive and Community Dentistry, Pusan National University, Yangsan-si, Korea (the Republic of))

C1044 Effectiveness of SDF in Arresting Root Caries in Different Fluoridated Areas. E. LO*, R. LI, C.H. CHU, H.-C. LIN (Faculty of Dentistry, University of Hong Kong, Hong Kong, SAR, Hong Kong)

E1045 Development of Customized Model for Multicultural Family in Seoul. T.-H. LEE, J.-Y. LEE*, S.J. CHOI, H.-R. PAIK, B.Y. PARK, B.-H. JIN (Dept. of Preventive & Social Dentistry, Seoul National University, Seoul)

C1046 Adhesion / Adherences Clinical Diagnosis Proposal – A Case Series. R.E. FRUGONE-ZAMBRA*, D. JEREZ-OLATE, V. PÉREZ-FIERRO, K. RUDLOFF-TREGGAR, A. BIANCHI, S. BORTOLINI, A. MICHELOTTI (Universidad de La Serena, La Serena, Chile)

Seq#: 162 Friday, 24 June 2016, 2 p.m. – 3:15 p.m.
Poster Session, Hall B

**Cariology Research-Demineralization/Remineralization –
Cariology Research-Demineralization/Remineralization II**

1047 Hydroxyapatite-paste is Capable of Decreasing the Permeability of Hypersensitive Dentin. A. BAKRY* (Operative Dentistry, King Abdulaziz University, Alexandria, Egypt)

SCI048 Effect of CO2 Laser Irradiation on Enamel Surface Microhardness Around Orthodontic Brackets. A. MIRESMAEILI, L. REZAEI SOFI, F. VAHDATINIA* (Dentistry faculty, HAMADAN UNIVERSITY OF MEDICAL SCIENCES, HAMADAN, Hamadan, Iran (the Islamic Republic of))

S1049 Quantitative Characterization and microCT Mineral Mapping of Brown Spot Enamel Lesions. M. SHAHMORADI*, M. SWAIN (Faculty of dentistry, The University of Sydney, Blacktown, New South Wales, Australia)

1050 Enamel Remineralization by Calcium and Fluoride Containing Toothpastes *in Situ*. P. SHEN*, G. WALKER, Y. YUAN, C. REYNOLDS, E. REYNOLDS (Melbourne Dental School, The University of Melbourne, Melbourne, Victoria, Australia)

- 1051** Comparison of Light-cured Pit and Fissure Sealants on Enamel Demineralization Using Swept-source Optical Coherence Tomography. R. TAKAHASHI*, Y. SHIMADA, Y.-C. CHIANG, I. WADA, Y. SUMI, J. TAGAMI (Tokyo Medical and Dental University, Tokyo, Japan)
- SC1052** Depth of Demineralization of Enamel With Early Childhood Caries. L. S. S. S. E. ERULAPPAN* (Pedodontics and Preventive Dentistry, Saveetha university, Chennai, Tamilnadu, India)
- SC1053** Cariostatic Influence of Commercial SDF on Hydroxyapatite Disc Demineralisation Kinetics. W.-T. HUANG*, T. DUMINIS, D. GILLAM, P. ANDERSON, S. SHAHID (Dental Physical Sciences Unit, Queen Mary University of London, LONDON, UK, United Kingdom)
- 1054** Effect of Starch Based Snacks on Enamel Demineralisation *In Situ*. G. KOMAROV*, L. COOPER, N. FLANNIGAN, C. HOPE, S. VALAPPIL, P. SMITH, G. BURNSIDE, S. HIGHAM (Health Services Research, University of Liverpool, Liverpool, United Kingdom)
- SC1055** Efficacy of 45S5 Bioglass in Remineralization of White Spot Lesions Surrounding Orthodontic Brackets. H. AL-HARKAN*, A. BAKRY, S. BASUHAIL, K. AL-GHAMDI, M. ABBASSY, A.H. HASSAN (Faculty of Dentistry, King Abdulaziz University, Jeddah, Saudi Arabia)
- SE1056** Combined Full-length and Truncated Salivary Peptides' Effect on Demineralisation. H. ALMANDIL*, P. ANDERSON, M. AL-JAWAD, T. WILLIAMS (Dental Physical Sciences, Queen Mary University of London, London, London, United Kingdom)
- SC1057** How UVA-activated Riboflavin Strengthen Human Dentin. R. UEMURA*, K. YAGI, Y. SHINNO, J. MIURA, M. HAYASHI (Restorative Dentistry & Endontology, Osaka University, Osaka, Japan)
- S1058** Electrolytic Dissociation of Dental Hard Tissues Caused by Oral Galvanism. M. KUNZE, P. MAYER*, M. KOPP, W. NIEDERMEIER (Prosthetic Dentistry, University of Cologne, Cologne, Germany)
- SC1059** Evaluation of Demineralization in Root Dentin Using in-air Micro-PIXE/PIGE. K. YAGI*, R. UEMURA, H. YAMAMOTO, Y. MATSUDA, K. OKUYAMA, K. YASUDA, M. HAYASHI (Restorative Dentistry & Endontology, Osaka University, Osaka, Japan)
- 1060** Bioglass Improves Mechanical-properties of White Spot Lesions Surrounding Orthodontic Brackets. A. BAKRY, M. AL-GHAMDI, S. ALOTAIBI*, M. ABBASSY (Faculty of Dentistry, King Abdulaziz University, Jeddah, Saudi Arabia)
- 1061** Hyaluronic Acid in Toothpaste Enhances the Remineralization Effect of Nano-hydroxyapatite. M. OBUKI*, R. TAKIKAWA, R. HAYMAN (Sangi Company Ltd., Tokyo, Japan)
- S1062** Effects of S-PRG Fillers-containing Composite on Demineralization Inhibition of Enamel Surface: Optical Coherence Tomography (OCT) and Micro Computed Tomography (Micro CT) Approaches. Y.-J. LAI*, T.-C. LIU, S.-Y. HUANG, R. TAKAHASHI, Y. SHIMADA, J. TAGAMI, Y.-C. CHIANG (School of Dentistry and Graduate Institute of Clinical Dentistry, National Taiwan University, Taipei, Taiwan)
- 1063** *In Situ* Abrasive Effects of an Experimental Low Abrasive Dentifrice. E. MACDONALD*, S. YOUNG, C. HALL, J. SEONG, S. BODFEL JONES, N. WEST (School of Oral and Dental Sciences, University of Bristol, Bristol, United Kingdom)
- S1064** Detection of Short-period Remineralization of Early Caries by Human Saliva Using QLF Technology. G.M. KIM*, H.-M. KU, E.-S. LEE, S. KANG, H.-K. KWON, B.-I. KIM (Departments of Preventive Dentistry & Public Oral Health, Yonsei University College of Dentistry, Seoul, Korea (the Republic of))

Seq#: 163 Friday, 24 June 2016, 2 p.m. – 3:15 p.m.
Poster Session, Hall B

**Cariology Research-Clinical and Epidemiological Studies –
Clinical Studies in Cariology-Epidemiology & Treatment**

- SC1065** Korean National Oral Health Survey Data on the Symmetry of Primary Dentition Surface Caries in Korean Children. A.H. KIM*, Y.-S. SHIM, Y. YOO, S.Y. AN (Wonkwang University, Iksan, Korea (the Republic of))
- 1066** Caries and Nutritional Status of Pre-School Children in North-East India. N. KSHETRIMAYUM* (Department of Public Health Dentistry, Dental College, Regional Institute of Medical Sciences, Imphal, Manipur, India)
- 1067** An Epidemiological Study of Dental Caries in Petrochemical Industry Employees. H. PAN*, H. CHEN, D. JIN, J. ZHANG (Department of stomatology, Zhenhai Longsai Hospital, Ningbo, Zhejiang, China, Ningbo, Zhejiang, China)
- SC1068** Efficacy of Probiotic, Green Tea and Chlorhexidine Dentifrices on Cariogenic Flora. J. PRABAKAR* (Public Health Dentistry, saveetha dental college, CHENNAI, TAMIL NADU, India)
- C1069** Long-term Effect of Erythritol on Dental Caries Development During Childhood: A Post-treatment Survival Analysis. G. FALONY, S. HONKALA, R. RUNNEL, J. OLAK, R. NÖMMELA, S. RUSSAK, M. SAAG, P.-L. MÄKINEN, K. MÄKINEN, T. VAHLBERG, E. HONKALA* (University of Turku, Turku, Finland)
- S1070** Rinsing With Ceramic Water Inhibits *Streptococcus mutans* Cariogenicity – Clinical Trial. R. YONEYAMA*, R. NOMURA, J. MARUO, O. YAMADA, K. NAKANO (Osaka University Graduate School of Dentistry, Suita, Osaka, Japan)
- S1071** Caries Prevalence in Icelandic 6-Year-Olds. C. SCOTT*, J. SHAPIRO, C. RIEDY, W.P. HOLBROOK (Harvard School of Dental Medicine, Harvard University, Boston, Massachusetts, USA)
- SC1072** Clinical Evaluation of ART and Composite Resin Restorations: Pilot Study. R. MENEZES-SILVA*, D. DOUGLAS DE OLIVEIRA, S. MAITO, H. HONÓRIO, M. ATTA, M.F. DE LIMA NAVARRO (Department of Dentistry, Endodontics and Dental Materials, Bauru Dental School, Corinto, Brazil)
- 1073** Efficacy of Topical Fluoride Application in Preventing Caries in Preschool Children. W.-S. RONG*, L. LIU, M. LIANG, X. ZHAO, T. XU (Dept. of Preventive Dentistry, Peking University, Beijing, China)

Seq#: 164 Friday, 24 June 2016, 2 p.m. – 3:15 p.m.
Poster Session, Hall B

Craniofacial Biology – TMJ & Sleep Apnea

- SC1074** Changes in Tissue Oxygen Saturation During Various Continuous Clenching Tasks. C. SATOKAWA*, A. NISHIYAMA, K. SUZUKI, S. UESUGI, S. KOKAI, T. ONO (Orthodontic Science, Division of Oral Health Sciences, Graduate School, Tokyo Medical and Dental University, Tokyo, Japan, Bunkyo-ku, Tokyo, Japan)
- C1075** Estimating Jaw Opening Forces in Healthy Participants: Comparison of Gender, Age and Physical Dimensions Differences. C. LOCH*, J. WADDELL, P. BRUNTON (Sir John Walsh Research Institute, University of Otago, Faculty of Dentistry, Dunedin, New Zealand)
- S1076** *In Vitro* Study of Efficacy of Link N in Inflammatory Condition. M.-C. YANG*, D.-H. WANG, W.-E. HSU, M.-L. HSU (School of Dentistry, National Yang-Ming University, Taipei, Taiwan)

SI077 Collagen Induced Arthritis in Rat Temporomandibular Joint. D.-H. WANG*, M.-C. YANG, W.-E. HSU, M.-L. HSU (School of Dentistry, National Yang-Ming University, Taipei, Taiwan)

SI078 Effect of Ultrasound on Condylar Growth in Juvenile Arthritic Mice. N. ALZAHARI, M.-N. ABDALLAH, J. CROSSMAN*, F. TAMIMI, P. FLOOD, T. EL-BIALY (University of Alberta, Edmonton, Alberta, Canada)

I079 Morphology Study of Temporomandibular Joint Related Muscles and Ligaments. X. SHE, F. WEI, B. DAMON, M. COOMBS, D. LEE, M. LECHOLP, T. BACRO, N. ZHENG, H. YAO* (Clemson-MUSC Bioengineering Program, Clemson University, Charleston, South Carolina, USA)

E1080 Volumetric Airway Changes With Mandibular Repositioning at CR by CBCT. T. PREMARAJ*, J. SCOTT, M. BURNS, S. PREMARAJ (College of Dentistry, University of Nebraska Medical Center, Lincoln, Nebraska, USA)

C1081 Severity of Sleep Apnea and Missing Premolars. A. FIRESTONE*, R. MAERZ, V. PENNINGTON, M. ST. JOHN, J. ROTH, A. JENKINS, B. SKULSKI, F.M. BECK (College of Dentistry, Ohio State University, Columbus, Ohio, USA)

C1082 Changes in Upper Airway Volume Following Surgical Removal of Adenoids. C. SCHULTZ, S. PREMARAJ*, T. PREMARAJ (Growth and Development, University of Nebraska Medical Center, Lincoln, Nebraska, USA)

E1083 Comparing CBCT and Acoustic Reflection for Upper Airway Analysis. I. TSOLAKIS, D. VENKAT, M. HANS, A. ALONSO, J. PALOMO* (Orthodontics, Case Western Reserve University, Cleveland, Ohio, USA)

SE1084 The expression of podoplanin and bone-associated proteins after mechanical stress. T. TAKENAWA*, T. KIM, T. KITAMURA, Y. TAKAKUSAKI, Y. SATO, J. IIDA, Y. SAWA (Hokkaido University Graduate School of Dental Medicine, Division of Oral Functional Science, Department of Orthodontics, Sapporo, Japan)

Seq#: 165 Friday, 24 June 2016, 2 p.m. – 3:15 p.m.
Poster Session, Hall B

Dental Anesthesiology Research – Anesthesia, Pain Control & Sedation: Efficacy, Toxicity & Special Care Patients II

SE1085 A Comparison of 10 Seconds vs 60 Seconds Applications of Topical Anesthetic on the Pain Experienced During Maxillary Infiltration in Children. H. PHAN* (Pediatric Dentistry, Faculty of Odonto-Stomatology, University of Medicine and Pharmacy, HO CHI MINH CITY, Viet Nam)

I086 Enhancement of Lidocaine Mucosal Permeation by Encapsulation in Poly(Epsilon-Caprolactone) Nanocapsules. M. VOLPATO*, C. DOS SANTOS, F. GROppo, C. DA SILVA, N. DE MELO, L. FRACETO, L. SERPE, M. FRANZ-MONTAN (Department of Physiological Sciences, Piracicaba Dental School, University of Campinas, PIRACICABA, SP, Brazil)

SI087 Imidazoline Receptor Activation in Dexmedetomidine-related Cardiorespiratory Depression in Neonatal Rat. N. SATO*, C. SAIKI, J. GOKITA, M. TAKAHASHI, T. IMAI, K. SUNADA (Department of Dental Anesthesiology, The Nippon Dental University, School of Life Dentistry at Tokyo, 1-9-20 Fujimi Chiyoda-ku, Japan)

SI088 An Effect of Dexmedetomidine in Blood Flow of Palatal Mucosa. S. TOMITA*, H. KAWAAI, S. YAMAZAKI (Dental Anesthesiology, Ohu University, Koriyama, Fukushima, Japan)

E1089 Sedation Protocol Using Dexmedetomidine for Third Molar Extraction. D.-W. LEE*, T. KIM (Department of Oral & Maxillofacial Surgery, Kyung Hee University Dental Hospital at Gangdong, Seoul)

C1090 The Analgesic Effect of Flurbiprofen with Fentanyl, or With Acetaminophen. M. YOSHIDA*, Y. SHIMIZU, K. YOSHIDA, A. MUKAI, M. DOI, M. IRIFUNE (Section of Dental Anesthesiology, Department of Oral & Maxillofacial Surgery and Oral Medicine, Hiroshima University Hospital, Hiroshima, Japan)

SI091 Analgesic Efficiency of Transdermal Patch of Fentanyl Versus Diclofenac in Third Molar Surgery. R. KANDASAMY*, R. NAIDU, A. WAHAB (oral and maxillofacial surgery, saveetha dental college, Chennai, India)

C1092 An Approach to Patients With Orofacial Pain Using MMPI. M. SUDA, H. HIGUCHI, Y. TOMOYASU, Y. HONDA, S. MIYAKE, R. ONISHI, A. YABUKI-KAWASE, M. ISHII-MARUHAMA, M. MORI, K. TAKAYA, H. TANIMURA, M. KODAMA, S. MAEDA, T. MIYAWAKI* (Dental Anesthesiology and Special Care Dentistry, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama, Japan)

Seq#: 166 Friday, 24 June 2016, 2 p.m. – 3:15 p.m.
Poster Session, Hall B

Dental Materials I: Ceramic-based Materials – MTA Cements, Bioglasses & Hydroxiapatite

SC1093 Characterization of Fish Scale Derived Collagen-HAP Granule for Bone Repair. J.-Y. WU*, Y.-C. CHANG, K.-C. MO, M.-C. HUANG, C.-H. CHOU, S.-M. LIN, S.-H. CHANG (Body Organ Biomedical Corporation, Taipei, Taiwan)

SI094 The Effect of Dissolution Medium on the Bioactivity and Phases Formed of Bioactive Glasses. F. AL-KHAYYAT*, S. RAWLINSON, R. HILL (Dental Physical Sciences, Queen Mary University of London, London, London, United Kingdom)

C1095 Sealing Ability of Mineral Trioxide Aggregate (OrthoMTA) for File Separation. K.S. TAE* (Kyung Hee University, SEOUL, Korea (the Republic of))

C1096 The Effect of MTA Orthograde Biofilling on Bone Formation on the Previous Periapical Lesion Site. C. YOO* (Kyung Hee University, SEOUL, Korea (the Republic of))

C1097 Successful Re-endo Treatment With MTA (OrthoMTA). T. KIM* (SEOUL NATIONAL UNIVERSITY, SEOUL, Korea (the Republic of))

SI098 Mesoporous Silicate Nanoparticles With Phosphates Regulate Calcium Silicate Cement Hydration. S.-W. YU*, N.-T. SU, H.-P. LIN, Y.-L. LEE (Graduate Institute of Clinical Dentistry, National Taiwan University, Taipei, Taiwan)

SI099 Discoloration of White Mineral Trioxide Aggregate With Various Radiopacifiers. Y.-J. KIM*, J. ROH, K.-M. KIM, I.-S. PARK, K.-N. KIM (Dental hygiene, Kyungdong University, Wonju-si, Gangwon-do, Korea (the Republic of))

SI100 Coronal Leakage From Alkaline Endodontic Cements Versus Resin Sealers. Y.-Y. TEOH*, B. ATHANASSIADIS, L. WALSH (University of Queensland, Brisbane, Queensland, Australia)

- SI101** Powder/Liquid Ratio Effects on Mechanical Properties of Modified β -TCP Cement. Y. IDA*, J. BAE, K. SEKINE, F. KAWANO, K. HAMADA (Tokushima University, Tokushima, Japan)
- EI102** Microstructure Analysis and Hardness Test of Geopolymer Based Nano-Composite Materials. A. EVELYNA*, I. SURYATMOJO, I. ESSYTA, B. SUNENDAR PURWASMITA (Dental Material, Faculty of Dentistry, Maranatha Christian University, Bandung, West Java, Indonesia)

Seq#: 167 Friday, 24 June 2016, 2 p.m. – 3:15 p.m.
Poster Session, Hall B

Dental Materials 4: Adhesion – Universal Adhesives & Dentin Treatments in Adhesive Dentistry

- C1103** Application of Ethanol Wet-bonding in the Resin Restoration on Pulpless Permanent Teeth. Z. JIE* (Out-patient Center, Peking University School and Hospital of Stomatology, Beijing, China)
- I104** Effect of Different Cross-Linkers on Dentin MMPs. L. BRESCHI*, V. ANGELONI, C. MAZZITELLI, M. CADENARO, L. TJADERHANE, F. TAY, D. PASHLEY, A. MAZZONI (Department of Medical Sciences, University of Bologna, Trieste, Italy)
- SI105** Effect of Different Aging Methods and Ethanol Wetting on Microtensile Bond Strength of a Self-etch Adhesive. Y. SESEN USLU*, S. HERGÜNER SISO, N. DONMEZ (RESTORATIVE DENTISTRY, BEZMIALEM VAKIF UNIVERSITY, ISTANBUL, FATİH, Turkey)
- C1106** Effect of MDP on Enamel Bonding Durability of Self-etch Adhesives. T. TAKAMIZAWA*, K. TSUCHIYA, Y. HOSOYA, W. BARKMEIER, K. TSUBOTA, A. TSUJIMOTO, M. LATTA, M. MIYAZAKI (Operative Dentistry, Nihon University, Tokyo, Japan)
- I107** Enhanced Dentin Bonding Stability Using Blue-Light Activated Riboflavin. S.-F. CHUANG*, J.-P. HSIEH, Y.-L. CHEN (Institute of Oral Medicine, National Cheng Kung University, Tainan, Taiwan)
- SI108** SEM Analysis: UVA-activated Riboflavin Cross-link to Sound and Caries-affected Dentin. Y. AHN*, R. LAMY, C. DARLING, J. STEWART, L. PINZON (School of Dentistry, University of California, San Francisco, San Francisco, California, USA)
- I109** Effect of DCC on Immediate Bond Strength. A. MAZZONI*, V. ANGELONI, V. CHECCHI, R. DI LENARDA, N. SCOTTI, F. TAY, D. PASHLEY, L. BRESCHI (Clinica Odontostomatologica, University of Trieste, Trieste, Italy)
- SE110** Bond Strength of a Universal Adhesive with Different Application Protocols. P. SAIKAEW*, H. SANO, A.F.M. CHOWDHURY (School of Dentistry, Hokkaido University, Sapporo, Japan)
- SI111** Bond Strength of Multi-mode Adhesives to Dentin: Systematic Review and Meta-analysis. A. ELKAFFAS*, H. HAMAMA, S. MAHMOUD (Operative Dentistry, Faculty of Dentistry, Mansoura University, Mansoura, Egypt)
- SI112** Effects of Dentin Wetness and pH of Universal Adhesives on Dentin Bond Strength. A. CHOI*, S.-A. SON, J.-K. PARK, J. LEE (Conservative dentistry, Pusan national university, Yangsan, Kyungnam, Korea (the Republic of))
- C1113** The Evaluation of New All-in-one Self-etching Adhesives. T. HOSHIKA, Y. NISHITANI*, K. TAKAHASHI, T. KAJIHARA, M. YOSHIYAMA (Restorative Dentistry and Endodontology, Kagoshima University, Kagoshima, Japan)

- I114** Influence of Air-powder Polishing on Shear Bond Strength of Universal Adhesive Systems. Y. TAMURA*, S. SHIBASAKI, K. TSUBOTA, T. TAKAMIZAWA, H. KUROKAWA, M. MIYAZAKI, K. HINOURA (Operative Dentistry, Nihon University School of Dentistry, Tokyo, Japan)
- SC1115** Adhesive Layer Thickness Of Universal Adhesives And Effect Of Air-thinning. K. CHO*, S.-H. PARK (Department of conservative dentistry, Inha University Hospital, Incheon, Korea (the Republic of))
- C1116** Comparison of Mode of Failure of New Universal Adhesives. M.T. PULIDO*, A. TANG, E. WIESNER, J. MITCHELL (College of Dental Medicine, Midwestern University, Glendale, Arizona, USA)
- C1117** Influence of Evaporation Time on Hydrophilicity of Different Universal Adhesives. A. MATSUMOTO, A. KASTRATI, R. HAMBURG, W. LOH, M. LECHMANN-DORN*, J. SCHWEPPE, A. LEYER (Heraeus Kulzer GmbH, Hanau, Germany)
- I118** Dentin Etching Effects on Microshear Bond Strength of Universal Adhesives. X. HU*, H. ZHANG, J. SORENSEN, A. SADR (Restorative Dentistry, University of Washington School of Dentistry, Seattle, Washington, USA)
- I119** Evolution of Recent Universal Adhesives – Chemistry and Performance. C. THALACKER*, H. LOLL, I. EDELMANN, R. GUGGENBERGER, B. KIM (3M Oral Care, 3M Deutschland GmbH, Seefeld, Bavaria, Germany)
- I120** Immediate Microtensile Bond Strength Evaluation of Universal Adhesives. N. SIRINSUKAN*, E. CAN SAY (Department of Restorative Dentistry, Yeditepe University, Istanbul, Turkey)
- SI121** Dentin Bonding in Physicochemical Properties of Adhesives Incorporated With Epigallocatechin-3-gallate. A. DE MACEDO*, M. LEMOS, N. SOUZA, V. FEITOSA, S. SANTIAGO (Restorative Dentistry, Federal University of Ceara, Fortaleza, Ceara, Brazil)
- I122** Effect of Previous Acid Etching and Application Mode on Enamel Bonding Durability of Self-etch Adhesives. K. TSUBOTA*, T. TAKAMIZAWA, A. TSUJIMOTO, M. MIYAZAKI, M. LATTA (School of Dentistry, Nihon University, Tokyo, Japan)

Seq#: 168 Friday, 24 June 2016, 2 p.m. – 3:15 p.m.
Poster Session, Hall B

Dental Materials 5: Biocompatibility and Biologic Effects of Materials – Antimicrobial Effects of Dental Materials

- I123** Synthesis and Characterization of a Novel Antibacterial and Bioactive Root Canal Sealer Precursor. X. CHENG, T.-J. QU, Q. YU, X. LIU* (Baylor College of Dentistry, Dallas, Texas, USA)
- C1124** Biofilm Formation on Dental Restorative Biomaterials. S. DENG*, D. CHAN, K.-H. CHUNG, R. FRANCISCO, J. BRYERS (Department of Conservative Dentistry, Affiliated Hospital of Stomatology, Zhejiang University, Hangzhou, Zhejiang, China)
- I125** Antibacterial Activity of Dental Restorative Materials Containing Urushiol Extracts From the Korean Lacquer Tree. H. MOON, D.-H. SHIN* (College of Dentistry, Dankook University, Chuncheon, Choong-Nam)
- SE1126** Surface Property Changes of Titanium After Bacterial Inoculation and Debridement. G.-S. SHIH*, B.-S. LEE, Y.-W. CHEN (National Taiwan University, Taipei, Taiwan)

I127 Anaerobic Bacterial Biofilm Formation on Endodontic Sealers. H. SLUTZKY*, I. SLUTZKY GOLDBERG, V. GERON, S. MATALON (Oral Rehabilitation, Tel Aviv University, Modiin Macabim Re'ut, Israel)

C1128 Antibacterial Properties of 4 Orthodontic Materials for Lingual Fixed Retainers. Z. ORMIANER*, N. SHPACK, Z. GERON, O. SARNA, S. MATALON (Oral Rehabilitation, Tel Aviv University, Tel Aviv, Israel)

I129 Deodorizing Effect and Antibacterial Activity of Black Cumin (*Nigella sativa* L.) Seed Oil. M. ISHIKAWA*, K. SHIBUYA, T. NAKASUGI, T. MURAKAWA, M. TOKUDA, T. MURATA, N. HANADA (Laboratory for Oral Health Science, Tokyo, Japan)

S1130 Bacterial Growth in the Static Magnetic Field. A. RONGE*, L. ABEN, M. KOPP, W. NIEDERMEIER, H. SCHÜTT-GEROWITT (Department of Prosthetic Dentistry, Cologne University/ Dentistry School, Cologne, Nordrhein-Westfalen, Germany)

I131 Anti-biofilm Effect of Methacrylated Chitosan Incorporated Denture Base Resin. I.S. STENHAGEN*, H. VALEN, I.S. DRAGLAND, H. KOPPERUD (NIOM - Nordic Institute of Dental Materials, Oslo, Norway)

S1132 Potential Effect of Onion-Turmeric Extract on Chemotherapeutic Drug-induced Oral Mucositis. A.E. TAJUD*, S.M. VY, E.J. SUNGA, N. GALLÉNITO, K. DEL RIO, F. BERIA, C.N.R.S. PAZ, M.I. LACANIENTA, J. SOTELLO (Dentistry, Centro Escolar University, Manila, Philippines)

I133 Development of an Antibacterial Endodontic Sealer Containing CPC-loaded Polymer Particles. H. KITAGAWA*, R. KITAGAWA, R. TSUBOI, K. TAKEDA, J.-I. SASAKI, S. IMAZATO (Department of Biomaterials Science, Osaka University Graduate School of Dentistry, Suita, Osaka, Japan)

Seq#: 169 Friday, 24 June 2016, 2 p.m. – 3:15 p.m.
Poster Session, Hall B

Dental Materials 8: Clinical Trials – Dental Materials: Clinical Trials I

C1134 At-home vs. in-office bleaching: a systematic review and meta-analysis. A. REIS*, J. DEGEUS, L. WAMBIER, S. PEREIRA, A. LOGUERCIO (Department of Restorative Dentistry, State University of Ponta Grossa, Ponta Grossa - Paraná, Brazil)

S1135 Clinical Evaluation ofOrmocer Bulk Fill Material in Class II Cavities. One Year Results. A. ABDALLA* (Dept. of Restorative Dentistry, Faculty of Dentistry, Tanta University, Tanta, Egypt)

SC1136 Survival rate of conventional glass ionomer cement added cellulose nanocrystals. A.C. SÁ-PINTO*, R. MENEZES-SILVA, F. PEREIRA, L. MARQUES, J. RAMOS-JORGE, M.L. RAMOS-JORGE (Paediatric Dentistry and Dental Materials, Universidade Federal dos Vales do Jequitinhonha e Mucuri, Diamantina, Minas Gerais, Brazil)

I137 Adhesive strategy on NCCLs postoperative sensitivity: systematic review and meta-analysis. M. SCHROEDER*, A. LOGUERCIO, I. CORRÊA, A. REIS (Federal University of Rio de Janeiro, Rio de Janeiro, Brazil)

Seq#: 170 Friday, 24 June 2016, 2 p.m. – 3:15 p.m.
Poster Session, Hall B

Geriatric Oral Research – Geriatric Oral Research: Oral Status General Health Interface

C1138 Lack of Cooperation Between Physicians and Dentists During Osteoporosis Treatment May Increase Fractures and Osteonecrosis of the Jaw. A. TAGUCHI*, M. SHIRAKI, T. SUGIMOTO, H. OHTA, S. SOEN (Dept. of Oral and Maxillofacial Radiology, Matsumoto Dental University, Nagano, Japan)

SC1139 Efficacy of Mandibular Advancement Device in Completely Edentulous Geriatric Patients With Obstructive Sleep Apnea. S. SHERRY*, P. ARIGA, S. RAJAMANI (Saveetha dental college, Chennai, Tamil nadu, India)

E1140 Salivary Urea and All-cause Mortality in Young Elderly. S.-J. JANKET*, M. SURAKKA, S. MANNEM, J. MEURMAN (Henry M. Goldman School of Dental Medicine, Boston University, Boston, Massachusetts, USA)

I141 The Influence of a Swallowing Function on Mortality and Health Outcome in the Very Elderly. T. IINUMA*, Y. ARAI, M. TAKAYAMA, Y. ABE, Y. FUKUI, M. FUKUMOTO, Y. SHIODA, Y. KONDO, N. HIROSE, K. KOMIYAMA, N. GIONHAKU (Complete denture, Prosthodontics, Nihon University School of Dentistry, Tokyo, Japan)

C1142 Relationship Between Eating Posture and Maximum Tongue Pressure. M. YOSHIKAWA*, T. MORI, K. TSUGA (Department of Advanced Prosthodontics, Hiroshima University, Hiroshima, Japan)

SC1143 Clinical Success of Mandibular Single-Implant Overdentures: 5-Year RCT Results. S. MA*, A. TAWSE-SMITH, N. ALSABEEHA (University of Otago, Dunedin, New Zealand)

C1144 Five Year follow-up of Direct Abutment Restorations. E. DREYER*, M. FERNANDEZ, R. JORQUERA (University of Chile, Santiago, Chile)

SC1145 Effects of Denture Usage/Management on Denture Calculus Formation. K. MATSUMURA*, Y. SATO, N. KITAGAWA, T. SHICHITA, D. KAWATA, M. ISHIKAWA (Geriatric, Showa University, Tokyo, Japan)

SC1146 Elastic Modulus Estimation of Denture Support Mucosa Using FEA. N. TAKAMATSU*, Y. SATO, N. KITAGAWA, O. SHIMODAIRA, A. ISOBE, Y. KAMISAWA, T. OGAWA, S. TANAKA (Geriatric Dentistry, Showa University, Tokyo, Kitasenzoku Ota Ward, Japan)

SC1147 Association Between Salivary Flow and Root Caries in Community-dwelling Elders. S. LEÓN*, E. CASTRO, R. GIACAMAN (Gerodontology Unit, University of Talca, Talca, Chile)

S1148 Crushed Medications Have Anti-bacterial and Anti-Candida Properties. M. CHEVALIER, J. LAMURE*, A. PAUL, I. PRECHEUR (Odontology, University Nice Sophia-Antipolis, Nice, France)

Seq#: 171 Friday, 24 June 2016, 2 p.m. – 3:15 p.m.
Poster Session, Hall B

Implantology Research – Basic Science Research on Dental Implantology I

I149 Osteocyte Network Regulated by Mechanical Stress Activates Peri-implant Bone Remodeling. Y. TOMITA*, Y. MORIYAMA, Y. AYUKAWA, K. KURATA, H. ZHANG, K. KOYANO (Section of Implant and Rehabilitative Dentistry, Division of Oral Rehabilitation, Faculty of Dental Science, Kyushu University, Fukuoka, Japan)

- SC1150** The Effect of Implant Biomaterials on Circadian Rhythm Gene Expression. K. MORINAGA*, A. HOKUGO, S. PARK, I. NISHIMURA (Weintraub Center for Reconstructive Biotechnology, UCLA School of Dentistry, Los Angeles, California, USA)
- C1151** Effects of Etched Zirconia Ceramics on Cellular Activity of Osteoblast-like Cells. J.-Y. SUH*, J.-H. LEE, Y. LEE, J.-Y. KIM, Y.-G. KIM, J.-W. PARK, J.-M. LEE (Dept. of Periodontology, School of Dentistry, Kyungpook National University, Daegu, Kyungpook, Korea (the Republic of))
- I152** Is Cellular Distribution Crucial Factor for Bone Augmentation?. Y. SAKAI*, M. NISHIMURA, F. SUEHIRO, Y. SHIGEMITSU, H. FUNABASHI, T. KUMAGAI (R&D Dept., GC Corporation, Tokyo, Japan)
- I153** Osteogenic Differentiation of Mesenchymal Stem Cells on Titanium Ionised Surfaces. A. PIATTELLI*, L. FERRONI, C. GARDIN, E. FERRARA, B. ZAVAN (DEPARTMENT OF MEDICAL, ORAL AND BIOTECHNOLOGICAL SCIENCES, UNIVERSITY OF CHIETI-PESCARA, ITALY, Chieti, Italy)
- I154** Plasma Concentration of Metformin and Dexamethasone After Administration Through Implant Mediated Drug Delivery Device (IMDDS). Y.S. PARK*, H.-K. KIM (Department of Oral Anatomy, Seoul National University School of Dentistry, Seoul, Korea (the Republic of))
- SI155** The Effect of LIPUS Against Wound Healing in Epithelial Cells. Y. IWANABE*, C. MASAKI, A. TAMURA, S. TSUKA, T. MUKAIBOU, Y. KONDO, R. HOSOKAWA (Oral Reconstruction and Rehabilitation, Kyusyu Dental University, Kitakyusyu, Fukuoka, Japan)
- I156** Gene Expression Profiles of BMMSCs Seeded on SLA-treated Titanium Implant Surface: The Effect of LPR5 and Role of β -catenin/LRP5 Pathway. X. GUAN* (Department of Endodontics, Affiliated Hospital of Stomatology, Medical College, Zhejiang University, Hangzhou, Zhejiang, China)
- I157** Whole Body Vibration Improves Osseointegration via Up-regulating Osteoblastic Activity but Down-regulating Osteoblast-mediated Osteoclastogenesis by ERK1/2 Pathway. Y. ZHOU* (Zhejiang University, Affiliated Hospital of Stomatology, Medical College, Hangzhou, Zhejiang, China)
- C1158** Experimental and Clinical Study of Various Autogenous Demineralized Dentin Matrix. H.-S. KIM*, Y.-K. KIM, I.-W. UM (Department of Oral and Maxillofacial Surgery, Seoul National University Bundang Hospital, Seongnam, Korea (the Republic of))
- SI159** Effect of Implant Nanopatterning on *Staphylococcus aureus* Adhesion and Colonisation. S. AGUAYO*, A. STRANGE, N. GADEGAARD, M. DALBY, L. BOZEC (Biomaterials and Tissue Engineering, University College London: Eastman Dental Institute, London, United Kingdom)
- I160** Effect of Titanium Surface Characteristics on Protein Adsorption in Diabetes. S. HAMLET*, R. LEE, S. IVANOVSKI (School of Dentistry & Oral Health, Griffith University, Southport, Queensland, Australia)
- C1162** Identification of Enteric Bacteria in Patients with Perimplantar Disease at National University of Colombia. M. CASTRO ZARATE*, C. RAMON (Universidad Nacional de Colombia, Bogota, Colombia)
- I163** *Streptococcus kieseri* sp. nov. From the New Zealand Brushtail Possum. N. HENG*, C. BENN, J. UPRITCHARD, J. HALE, J. ROSS, G. TOMPKINS, J. KIESER, J.-A. STANTON (Faculty of Dentistry, Sir John Walsh Research Institute, Dunedin, New Zealand)
- SE1164** Screening of Antibiotics That Selectively Inhibit *Acinetobacter Johnsonii*, a Bacterial Species Associated With a Recurrent Aphthous Stomatitis (RAS) Risk. A. LEE*, Y. KIM, Y. CHOI, Y. CHOI (Seoul National University, Gyeonggi-do, Gyeonggi-sangnam-do, Korea (the Republic of))
- SI165** Distribution of *Helicobacter pylori* in Dental Plaque From Japanese Children and Adults. Y. OGAYA*, R. NOMURA, D. MATSUI, I. WATANABE, T. KOYAMA, F. MIYATANI, K. IWAI, E. OZAKI, N. KURIYAMA, Y. WATANABE, K. NAKANO (Pediatric Dentistry, Osaka University Graduate School of Dentistry, Suita, Japan)
- SI166** Metaproteomics Reveals Dynamics of the Human Oral Microbiome Under Treatment. A. RABE*, M. GESELL, SALAZAR, S. FUCHS, M. ZAHEDANI, H. BELOW, U. VÖLKER, A. WELK (Department for Functional Genomics, Interfaculty Institute for Genetics and Functional Genomics, University Medicine Greifswald, Greifswald, Western Pomerania, Germany)
- C1167** Investigation of the Effectiveness of D-Amino Acids to Disrupt *Enterococcus faecalis* Biofilms for Root Canal Treatment. V. BUTNEJSKI*, P. ZILM, G. ROSSI-FEDELLE (Dentistry, University of Adelaide, Adelaide, South Australia, Australia)
- SI168** Antibacterial Effects of *Streptococcus Salivarius* K12 on Oral Bacteria. Y.-M. MOON*, J.-W. CHO (Department of Oral Health, Graduate School, Dankook University, Cheonan-si, Choongnam-do, Korea (the Republic of))
- SI169** The Influence on the Recognition for Periodontal Care to Oral Micro-organism Changes in Dental Implant Patients. K.-H. MOON, J.-W. CHO* (Department of Preventive Dentistry, School of Dentistry, Dankook University, Cheonan City, Korea (the Republic of))
- I170** Cytotoxicity of Alcohol Free Essential Oil and Cetylpyridinium Chloride Mouthwashes. K. ALMAS*, Q. ZHU, T. KOMABAYASHI (Division of Periodontology, University of Dammam College of Dentistry, Alkhobar, Saudi Arabia, Saudi Arabia)
- SI171** Tyrosol as Antimicrobial Agent Against Biofilms of Important Oral Pathogens. D. MONTEIRO*, L. ARIAS, R. FERNANDES, D. BARBOSA, J. PESSAN, A. DELBEM (Departament of Pediatric Dentistry and Public Health, Araçatuba Dental School, Univ Estadual Paulista (UNESP), Araçatuba, São Paulo, Brazil)
- I172** Effects of Tannin Extracted From Persimmon on Recovery of Biofilms. K. TOMIYAMA*, A. KAWATA, K. HIGASHI, K. WATANABE, H. KUMADA, H. HASEGAWA, M. SAITO, O. TAKAHASHI, N. HAMADA, Y. MUKAI (Div. of Cariology and Restorative Dentistry, Kanagawa Dental University, Yokosuka, Japan)

Seq#: 172 Friday, 24 June 2016, 2 p.m. – 3:15 p.m.
Poster Session, Hall B

Microbiology / Immunology – Microbiology/Immunology- Antibiotics & Mechanisms of Sensitivity

- SI161** Gingival Stem/Progenitor Cells Osteogenic Gene Induction by *Aggregatibacter Actinomycetemcomitans* Proteins. K. FAWZY EL-SAYED, T. KÖHNLEIN*, M. MEKHEMAR, M. PAYMARD, R. MARQUARDT, C. DORFER (Conservative Dentistry and Periodontology, Uniklinikum Schleswig-Holstein-Campus Kiel-Germany, Kiel, Germany)

Seq#: 173 Friday, 24 June 2016, 2 p.m. – 3:15 p.m.
Poster Session, Hall B

Mineralized Tissue – Mineralized Tissue-Other Topics

C1173 Physiological Hyperprolactinemia Mimicking Pregnancy and Lactating Period Induced Osteogenesis in Human Periodontal Ligament Fibroblasts. R. SURARIT, N. KRISHNAMRA, S. CHOONATE, D. SERIWATANACHAI* (Oral Biology, Mahidol University, Bangkok, Thailand)

I174 Stanniocalcin I Enhances Osteogenic Differentiation of Human Periodontal Ligament Fibroblasts. H.S. CHAE, K. BOONANANTANASARN*, H. GU, H.-M. RYOO, K.M. WOO, J.-H. BAEK (Seoul National University School of Dentistry, Seoul, Korea (the Republic of))

SC1175 Histone Deacetylase Inhibition Enhances *in Vivo* Bone Regeneration by hPDL Cells. N. HUYNH*, P. PAVASANT, R. AMPORNARAMVETH (Faculty of Dentistry, Chulalongkorn University, Bangkok, Thailand)

SC1176 Epigenetic and Therapeutic Implications of Dnmt3b in TMJ Arthritis. Y. ZHOU*, M. CHEN, R.J. O'KEEFE, J. SHEN, M. EMBREE, Z. LI, J. ZHOU, Z. WANG, X. ZHOU, J. MAO (Columbia University, Center for Craniofacial Regeneration, NEW YORK, New York, USA)

SE1177 Effect of the Functional Appliance on the Condyle Growth in Rats. J.-Y. KIM*, S.-S. JUE, P. OWTAD, J.H. PARK, J.-W. SHIN (Dept. of Oral Anatomy, Kyung Hee University, Seoul, Korea (the Republic of))

I178 Comparison Sensitivity of Subchondral Bone in Iodoacetate-induced Osteoarthritis in TMJ and Knee Joint. X. WANG*, J. ZHANG, Y. ZHOU, Y. GAN (Orthodontics, Peking University, Beijing, China)

C1179 Inactivation of Fam20B in Joint Cartilage Leads to Chondrosarcoma and Postnatal Ossification Defects in Long Bones. P. MA*, W. YAN, Y. TIAN, X. WANG (Department of oral implantology, Beijing Stomatological Hospital of Capital Medical University, Beijing, China)

Seq#: 174 Friday, 24 June 2016, 2 p.m. – 3:15 p.m.
Poster Session, Hall B

Oral Health Research – Oral Pathology & Treatment II

SC1180 The Relationship between Whiplash Injury and Temporomandibular Disorders. Y.-H. LEE*, J.-P. HONG, Y.H. CHUN, Q.-S. AUH, S.-K. KANG (Department of Orofacial Pain and Oral Medicine, Kyung Hee University Dental Hospital, Seoul, Korea (the Republic of))

S1181 Relationship Between Ritual Tooth Extraction and Para-functional Disease. S. KATAOKA*, T. TAKAHASHI, M. IWASAKI, M. TSURUTA, S. KAKUTA, I. SOH, T. ANSAI (Division of Community Oral Health Development, Kyushu Dental University, Kitakyushu, Japan)

SC1182 Orthodontic Treatment Outcomes at University of Health Sciences, Cambodia. S. SENG*, S. MOM, S. YIN, C.C. LING, H. JONATHAN (University of Health Sciences - Cambodia, Phnom Penh, Cambodia)

C1183 The use of QLF-D (Quantitative Light Induced Fluorescence-Digital) to longitudinally assess enamel demineralisation during Orthodontics. N. FLANNIGAN*, G. BURNSIDE, S. HIGHAM, C. MILLER (Orthodontics, University of Liverpool, LIVERPOOL, merseyside, United Kingdom)

S1184 Assessment of Training for Lip Incompetence by EMG. S. YOSHIZAWA*, M. OHTSUKA, T. KANEKO, J. IIDA (Department of Orthodontics, Hokkaido University Graduate School of Dental Medicine, Sapporo, Japan)

I185 De-sensitizing Effect of a Stannous-containing Sodium Fluoride Dentifrice. T. HOU, T. HE, J. CHANG, H. YANYAN, S. LI, N. JI* (Procter & Gamble Beijing Innovation Center, Beijing, China)

I186 Influence of pH on Demineralization of Enamel - Application to Product Safety. H. CHEN*, R. STRAND, S. XIE, E. SCHNEIDERMAN, J. MOORE, D. WHITE (Procter & Gamble Company, Beijing, China, Beijing, China)

I187 Barrier Polymers for Protection of Enamel From Dietary Acid Erosion. S. KAMIN, F. CHEN, K. VISSCHER, S. SARKAR, J. YELLIN, J. ROMULUS, P. GEBRESELASSIE, W. PROSISE* (Dental Research and Development, Ashland Inc., Bridgewater, New Jersey, USA)

I188 Comparative Anti-Erosion Effectiveness of a 0.454% Stannous Fluoride Dentifrice. N. WEST*, N. CLAYDON, J. SEONG, E. MACDONALD, R. EUSEBIO, T. HE (University of Bristol, Bristol, United Kingdom)

C1189 The Prevalence of Abrasion Disease and Associated Factors in Xi'an. H. JIANG*, Y. LIU, X. FAN, J. RUAN, R. HUANG, W. WEI, Z. GAO (Stomatology Hospital, Xi'an Jiaotong University, Xi'an, China)

I190 Regulation and Measurement of the Heat Generated by the Ablation of Dental Hard Tissue with a Femtosecond Laser in a Confined Space. F. YUAN*, Y. SUN, Y. WANG, P. LYU (Center of Digital Dentistry, Peking University School and Hospital of Stomatology, Beijing, China)

I191 Dentin Occlusion Efficacy of Dicarboxylic Acid or Its Salt. S. GIM*, G. MOON, W. HA (LG Household & Health care, Daejeon, Korea (the Republic of))

C1192 Self-reported Stale Breath in Dental Patients vs. General Population Subjects. P. LENTON*, M. JOHN, K. RENER-SITAR, K. BABA, P. LARSSON GRAN, A. ČELEBIĆ, D. KENDE, D. REISSMANN (Oral Health Research Clinic, University of Minnesota School of Dentistry, Minneapolis, Minnesota, USA)

I193 A New Whitening Dentifrice's Effect on Extrinsic Stain and Gloss. C. HUANG, S. ZHANG, L. GAO, B. LIU, X. CHEN, Y. FENG, H. YUE*, B. HO (Z. Hawley&Hazel Chemical Co., (ZS) Ltd, China, Zhongshan, China)

I194 Clinical Evaluation of the Efficacy of a New Whitening Toothpaste. Y. WANG, B. LIU, R. XU, L. GAO, Y. ZHOU, Y. ZHANG* (R&D, Hawley & Hazel Chemical Co., (ZS) Ltd., Zhongshan City, Guangdong, China)

I195 Application of Digital Imaging in Tooth Whitening Evaluation. B. LIU*, Y. WANG, H. YUE, Y. ZHANG (Hawley & Hazel Chemical Co., (Zhongshan) Ltd., ZHONGSHAN, China)

I196 Comparative Cleaning and Health Responses With Two Daily Whitening Products. S. NACHNANI*, S. LEE, M. MINER, J. UNDERWOOD, R. GERLACH (University Health Resources, Inc., Culver City, California, USA)

I197 Treatment Duration Effects on Gingivitis and Whitening With Two-Step Paste/Gel. R. GERLACH, M. ANASTASIA, M. BARKER, N. GURICH, G. TEREZHALMY, L. ARCHILA* (Dental Diagnostic Science, University of Texas at San Antonio, USA)

E1198 Perceived Barriers to Oral Health Care Access Among Manipuri Community. P. CHAUDHARI*, I.F. SINGH, N. KSHETRIMAYUM (Orthodontics and Dentofacial Deformities, All India Institute of Medical Sciences, New Delhi, New Delhi, Delhi, India)

Seq#: 175 Friday, 24 June 2016, 2 p.m. – 3:15 p.m.
Poster Session, Hall B

Oral Medicine & Pathology – Oral Medicine & Pathology VIII

SI199 Comparison of Primary Ameloblast and Ameloblast-like Cell Line LS8 for Enamel-specific Gene Expression With High-fluoride. X. ZHAO*, J. LI, J. RUAN (Department of Preventive Dentistry, Medical School of Xi'an Jiaotong University, Xi'an, Shaanxi Province, China) **SI200** Effects of β -cryptoxanthin on Cytokine Production by Oral Mucosal Epithelial Cells. F. OSEKO*, T. YAMAMOTO, Y. SATO, H. ICHIOKA, K. YAMAMOTO, M. KITA, N. KANAMURA (Dental Medicine, Kyoto Prefectural University of Medicine Graduate School of Medical Science, Kyoto, Japan)

SI201 Metformin as an Anticancer Agent in Oral Cancer Therapy by Regulating Tumor Associated Macrophage. C. CHI FU*, S. YI-SHING (Medical Sciences, National Defense Medical Center, Taipei City, Taiwan)

C1202 The influencing Factors in the Treatment of Mucosal Benign Pemphigoid. Y. HAN*, H. LIU (Peking University School of Stomatology, Beijing, China)

SC1203 The Molecular Mechanism of Enamel Matrix Proteinases Regulated by FoxO1 in Dental Fluorosis. J. LI*, X. ZHAO, L. ZHAO, P. WANG, J. RUAN (Department of Preventive Dentistry, Stomatological Hospital, Xi'an, Shaan'xi, China)

C1204 Immunoeexpression of STAT-3 and p38MAPK in the Different Clinical Types of Oral Lichen Planus: A Preliminary Study. G. DU, Y. WANG, T. CAO, L. ZHOU, Y. WANG, G.-Y. TANG* (Department of Oral Mucosal Diseases, Ninth People's Hospital Shanghai Jiao Tong University School of Medicine, Shanghai Key Laboratory of Stomatology, Shanghai, China)

SI205 Oral Health Awareness Among Mentally Illness Patients - Hospital Based Study. C. CHRISTOPHER* (Oral and Maxillofacial Pathology, Saveetha Dental College, Chennai, India)

SI206 Standardising Egg Shell Membrane as a Semipermeable Membrane. V. ANTONY* (Oral and Maxillofacial Pathology, Saveetha Dental College, Chennai, India)

SI207 Genomic Instability in Down Syndrome Using Buccal Micronuclei Cytome Assay. A. RAMASUBRAMANIAN*, P. RAMANI, G. JAYARAJ, H. SHERLIN, P. PREMKUMAR, A. NATESAN (Oral and Maxillofacial Pathology, Saveetha Dental College, Chennai, Tamilnadu, India)

SI208 Global Prevalence of Oral Candidiasis in HIV/AIDS-A Systematic Review and Meta-analysis. S. DHARMAN*, A. MUTHUKRISHNAN (oral medicine and radiology, saveetha dental college and hospitals, Chennai, Tamil Nadu, India)

C1209 Recurrent Oral and Genital Ulcers and Hemorrhagic Crusting of Lips. L.W. ZHENG* (The University of Hong Kong)

Seq#: 176 Friday, 24 June 2016, 2 p.m. – 3:15 p.m.
Poster Session, Hall B

Oral & Maxillofacial Surgery – Oral & Maxillofacial Surgery III

SC1210 Bone Morphogenetic Protein-2 and Platelet-rich Fibrin for the Treatment of Medication Related Osteonecrosis of Jaw. S.J. KIM*, J.-W. KIM, J.-H. PARK (Oral and Maxillofacial Surgery, Ewha Womans University, Seoul, Korea (the Republic of))

C1211 A Systematic Review on the Effects of Leukocyte- and Platelet-rich Fibrin on Bone Regeneration in Oral and Maxillofacial Surgeries. F. BASTAMI*, A. KHOJASTEH (Dental Research Center, School of Dentistry, Shahid Beheshti University of Medical Sciences, Tehran, Iran (the Islamic Republic of))

C1212 Trigeminal Nerve Injury at the Birmingham Dental Hospital, United Kingdom. H. CHO*, B. AHMED (Oral Surgery, Birmingham Dental Hospital, Birmingham, United Kingdom)

SC1213 Use of Glucose in Glycogen Metabolism in Iodine Non-stained (Oral Dysplastic/Malignant) Epithelium. N. YOSHIMURA*, H. KURITA, Y. LI, H. AIZAWA (Shinshu university of Medicine, 3-1-1 Asahi, Matsumoto, Nagano, Japan)

E1214 New Powder-free Palatogram Method Using Sandblast: *in Vitro* Examination. M. HATTORI*, Y. SUMITA, M. ELBASHTI, A. ASWEHLEE, H. TANIGUCHI (maxillofacial prosthetics, Tokyo Medical and Dental University, Tokyo, Bunkyo-ku, Japan)

SI215 MMP-13 in Disc of Human Temporomandibular Joint and Osteoarthritis. A. DOETZER*, J.H. PEROTTO, F. CAMEJO, L. ALMEIDA, M. OLANDOSKI, L. NORONHA, P.C. TREVILATTO (Pontificia Universidade Católica do Paraná, Curitiba, Parana, Brazil)

C1216 Disc-displacement-without-reduction Predispose TMJ to Osteoarthritis in Short Disease-duration With High-frequency. J. LEI*, J.-H. HAN, M.-Q. LIU, K.-Y. FU (Peking University School & Hospital of Stomatology, Beijing, China)

C1217 The Evaluation of Using Piezosurgery® to Extract Molar Tooth. D. LI* (PKU, Beijing, China)

Seq#: 177 Friday, 24 June 2016, 2 p.m. – 3:15 p.m.
Poster Session, Hall B

Pharmacology /Therapeutics/Toxicology – Natural Compounds for Treatment of Oral & Craniofacial Diseases

E1218 Effects of Thai Propolis Extracts on Human Salivary Tumor Cells. J. KAEWMUANGMOON*, K. CHAROONPATRAPONG, P. SUPPAKPATANA (Department of Anatomy, Faculty of Dentistry, Mahidol University, Bangkok, Thailand)

SI219 *In Vitro* Assay of Antibacterial Efficacy of Epicatechin and Rutin From *Acacia catechu* Leaf Extract Against *E.faecalis* and *S.mutans*. I. EZHIL*, L. THANGAVELU (SAVEETHA DENTAL COLLEGE, CHENNAI, India)

SI220 Antibacterial Efficacy of Herbal Mouthwash Against Oral Microbes - *in Vitro* Assay. R. VIJAYAKUMAR*, L. THANGAVELU (Saveetha dental college, Chennai, Tamil Nadu, India)

SE1221 HPLC Analysis, Antibacterial Activity of *Acacia catechu* Bark and Seed Against *S.mutans* and Evaluation of Cell Viability and Migration Rate, Apoptotic Gene Expression of Oral Squamous Carcinoma Cells (SCC-25) – *in Vitro* Study. L. THANGAVELU* (Pharmacology, Saveetha Dental college & Hospitals, Chennai, Tamilnadu, India)

SI222 Screening of Ethanolic Extracts of Medicinal Herbal Drugs Against Oral Microbes. H. LALIT KUMAR*, L. THANGAVELU, K. SHAH (saveetha dental college, Chennai, Tamilnadu, India)

SE1223 Effect of Holy Basil on Post Tooth Extraction Wound With Cigarette Smoke Exposure. D. SEPTIAN*, P. PUTRI, F. PRIANDHIKA, E. LODRA (Brawijaya University, Malang, East Java, Indonesia)

SI224 Exploring the Potential of *Jatropha Curcas* as an Anticaries Agent. R. MONA*, N. THURAIRAJAH, N. MUHAMAD, A. RAYARI, Z. SHAFIEL, Z. RAHIM (Faculty of Dentistry, Universiti Malaya, Kuala Lumpur, Perak, Malaysia)

I225 Antiplatelet/Antigingivitis Efficacy of Two Essential Oil-containing Mouthrinses: 6-month Study. M. LYNCH*, S. CORTELLI, R. REVANKAR, J. MCGUIRE, C. MORDAS, J. PELINO, D. RICCI-NITTEL, J. ZHANG, D. AQUINO, J. CORTELLI (Johnson & Johnson Consumer Companies, Inc., Montgomery, New Jersey, USA)

SI226 Caffeic Acid Induces Apoptosis in MG-63 Osteosarcoma Cells Through Caspases. K. HUDONO*, A.A. PUTRI, C. PARAMITA, M. SIDHARTA, J. SUDIONO, F. SANDRA (Faculty of Dentistry, Trisakti University, Jakarta, Indonesia)

SEI227 Comparative Antibacterial Effect of Silibinin and Silymarin Against Oral Microflora. R. MURALI*, L. THANGAVELU (pharmacology, saveetha dental college, Chennai, Tamilnadu, India)

SCI238 The Effects of Aromatase Inhibitor on Gingival Cells. S. HASEGAWA*, M. YANAGITA, M. KUBOTA, M. YAMASHITA, M. KITAMURA, S. MURAKAMI (Department of Periodontology, Osaka University Graduate School of Dentistry, Suita-city, Japan)

SI239 Human Neutrophil Peptide-1 Affects Matrix Metalloproteinase-2, -8 and -9 Secretions of Oral Squamous Cell Carcinoma Cell Lines *in Vitro*. A. MUSRATI*, T. TERVAHARTIALA, M. GÜRSOY, E. KONONEN, D. FTEITA, T. SORSA, V.-J. UIUTTO, U. GÜRSOY (Institute of Dentistry, University of Turku, Turku, Finland)

SI240 NLR5 May Negatively Regulate Osteoclast Differentiation in Periodontal Tissue. W. LIU*, W. WANG, J. LIU, Y. WANG, X.Y. OUYANG (Periodontology, Peking University School of Stomatology, Beijing, China)

Seq#: 178 Friday, 24 June 2016, 2 p.m. – 3:15 p.m.
Poster Session, Hall B

Periodontal Research-Pathogenesis – Periodontal Research-Pathogenesis in Vitro II

I228 Activated Peroxisome Proliferator-activated Receptor γ Improve Endothelial Nitric Oxide Synthase Expression Induced by *Porphyromonas gingivalis* Through PI3K/Akt Pathway. P. LI* (The second dental center, Peking University School of Stomatology, Beijing, China)

SEI229 The Inhibitory Effect of Nitric-oxide and N-methyl-D-aspartic Acid Receptor on Human Periodontal Ligament Fibroblast Cell Apoptosis. M. HWANG* (SNUH, Seoul, Korea (the Republic of))

CI230 Cellular Secretion of Macrophage Migration Inhibitory Factor in Endothelial Cells Infected by *Porphyromonas gingivalis*. D. ZHANG* (China Medical University, Shenyang, China)

SI231 Effect of Butyrate on MG63 Osteoblast-like Cells. C. TANG*, M.-W. LIAO, M.-C. CHANG, J.-H. JENG (Graduate Institute of Clinical Dentistry, National Taiwan University Medical College, Taipei City, Taiwan)

I232 Role of Mesenchymal Stem Cells in *Porphyromonas gingivalis* Infection. C. VILLAR*, K. RUIZ, M. ALBIERO, M. MISAWA, M. SAITO, R. STIPP, F. NOCITI JÚNIOR (University of São Paulo, São Paulo, Brazil)

SEI233 Responses of Human Periodontal Ligament Stem-cells to Periodontopathogenic Bacterial Endotoxins. L. RAMENZONI*, T. MITSADIS, T. ATTIN, P. SCHMIDLIN (Dept. of Preventive Dentistry, Periodontology and Cariology, University of Zurich, Zurich, Switzerland)

EI234 *P. gingivalis* ATCC33277 Invaded Into the Human Periodontal Ligament Stem Cells. C. PAN*, J. LIU, L. TAN, Y. PAN (Department of Periodontics, School of Stomatology, China Medical University, Shenyang, China)

EI235 Stem Cell-associated Markers are Expressed More in Interdental Papilla Than Marginal Gingiva. K. YUAN*, F.-C. HSU, Y.-C. YANG (Institute of Oral Medicine, National Cheng Kung University, Tainan, Taiwan)

EI236 Pep19 Drives Epitope Spreading in Periodontitis and Periodontitis-associated Diseases. E.-Y. KWON*, J. CHOI, J.-Y. LEE (Periodontology, Pusan National University Hospital Dental center, Busan, Korea (the Republic of))

I237 The Effect of Serum Amyloid A for Endothelial Cell. N. YOSHINARI*, K. TAKAHASHI, K. KAISE, M. SALEEM, Y. OZAKI, S. NAKAMURA, K. KUBOKAWA, Y. ISHIIHARA (Department of Periodontology, Matsumoto Dental University, Shiojiri, Nagano, Japan)

Seq#: 179 Friday, 24 June 2016, 2 p.m. – 3:15 p.m.
Poster Session, Hall B

Salivary Research – Salivary Research III

SI241 Salivary Microbiome Diversity in Caries-free and Caries-affected Children. S. JIANG*, X. GAO, L. JIN, E. LO (Dental Public Health, Faculty of Dentistry, The University of Hong Kong)

I242 P2 Receptors are Therapeutic Targets in Sjögren's Syndrome Mouse Models. G. WEISMAN*, L. WOODS, J. CAMDEN, M. KHALAFALLA, L. ERB (Biochemistry, University of Missouri, Columbia, Missouri, USA)

EI243 Role of Oral Mucosa and Mucosal Pellicle in Aroma Persistence. S. PLOYON, C. PRADELS, C. BELLOIR, M. MORZEL*, F. CANON (Centre des Sciences du Goût et de l'Alimentation, UMR6265 CNRS, UMR1324 INRA, Université de Bourgogne Franche-Comté, Dijon, France)

I244 Screening of Taste Dysfunction Using Zinc-binding Protein in Saliva. N. SHIMAZAKI*, T. YAMAMORI, S. SATOH-KURIWADA, T. SASANO, J. ITO, H. KONDO (Dept. of Prosthodontics and Oral Implantology, Iwate Medical University, Morioka, Iwate, Japan)

CI245 Quantitative and Qualitative Changes of Saliva During Long-distance Running. A.-P. RICKERT, W. NIEDERMEIER*, M. KOPP (Prosthetic Dentistry, University of Cologne, Cologne, Germany)

I246 The Effects of Hyaluronic Acids with Different Molecular Weights on Lysozyme- and Peroxidase-related Enzymatic Activities. J. KIM, M.-J. KIM, J.-Y. CHANG, Y.-Y. KIM, H.-S. KHO* (Department of Oral Medicine and Oral Diagnosis, School of Dentistry, Seoul National University, Seoul, Korea (the Republic of))

SCI247 Salivary Interleukin-1 β Response is Associated With Microbiome Diversity. A. ACHARYA*, S. KHEUR, D. GOPALAKRISHNAN, R. WATT, L. JIN, N. MATTHEOS (Faculty of Dentistry, The University of Hong Kong)

SI248 WITHDRAWN

Seq#: 180 Friday, 24 June 2016, 2 p.m. – 3:15 p.m.
Poster Session, Hall B

Stem Cell Biology – Stem Cell Biology I

SI249 Folic Acid-Modulated Growth of Dental Pulp Stem Cells (DPSCs). K. AGARI*, W. LIN, S. SANDHU, K. KINGSLEY (School of Dental Medicine, University of Nevada, Las Vegas, Las Vegas, Nevada, USA)

- S1250** Combination Effect of IL-1ra/TNF- α on G-MSCs Under Inflammatory Condition. F. ZHANG*, M. SI, H. WANG, M. MEKHEMAR, C. DORFER, K. FAWZY EL-SAYED (Conservative Dentistry and Periodontology, Christian-Albrechts University, Kiel, Germany)
- SC1251** Bisphosphonates as an Adjunct to Titanium Implant Therapy. N. ALQHTANI*, N. LOGAN, R. LEESON, S. MEGHJI, P. BRETT (UCL-Eastman Dental Institute, London, United Kingdom)
- C1252** Retraction Evaluation in Chinese Biprotrusion Treated by Customized Lingual Appliance. J. TAN*, L. CHEN, J. LIN, J. WU (Guanghua School of Stomatology, Sun yat-sen University, Guangzhou, Guangdong, China)
- S1253** Gingival Tissue-derived Mesenchymal Stem Cells Inhibit the Growth of Oral Cancer Cell. X. JI*, Z. ZHANG, Y. HAN, J. SONG, X. XU, S. SU, D. MU, X. LIU, S. XU, H. CUI, Z. ZHAO, Y. WANG, H. LIU (School and Hospital of Stomatology, Peking University, Beijing, China)
- S1254** Light-induced Cell Sheet Technology Used in Tissue Regeneration. M. YU*, H. WANG (Hospital of Stomatology aff. to College of Medicine, Zhejiang University, Hangzhou, Zhejiang, China)
- S1255** Comparison of PDL-MSCs and BM-MSCs Gene Profiles. S. HAKKI*, S. BOZKURT, E. KARAOZ, E.E. HAKKI, S. KAYIS (Periodontology, Selcuk University, Konya, Turkey)
- S1256** Stemness and Proliferation of Murine Skin-Derived Precursor Cells Under Hypoxic Environment in Culture. H. KIM*, S. PARK, S. ROH (BK21 PLUS and Dental Research Institute, Seoul National University School of Dentistry, Seoul, Korea (the Republic of))
- I257** SIRT6 Regulated Tooth Development and Eruption by Controlling the Proliferation and Differentiation of DMCs. R. LI*, L. YE, B. FENG, D. ZHANG, X. LIAO (department of endodontics, Sichuan University, Chengdu, Sichuan, China)
- C1258** The Effects of the Combination of PTH and SDF-I on Biobehavior of Human Periodontal Ligament Stem Cells and the Promotion of Periodontal Regeneration. S. GE*, F. WANG, R. FENG (Department of Periodontology, School of Stomatology, Shandong University, Jinan, Shandong, China)
- E1259** Effects of Substrate Stiffness on Periodontal Ligament Stem Cell Differentiation. E. PRATEEPTONGKUM*, C. KLINGELHÖFFER, C. MORSCZECK (Department of medical services, Ministry of Public Health, Institute of Dentistry, Muang, Nonthaburi, Thailand)
- S1260** Lipopolysaccharide Induces Proliferation and CD146-upregulation of Dental Pulp Stem Cell. Y. SUEYAMA*, T. KANEKO, T. ITO, T. OKIJI (Division of Cariology, Operative Dentistry and Endodontics, Niigata University, Niigata, Niigata, Japan)

Seq#: 181 Friday, 24 June 2016, 3:30 p.m. – 4:45 p.m.
Poster Session, Hall B

IADR Unilever Hatton Competition- Junior

- S1261** Phage Therapy - A Modifiable Resolution to Combat Resistant Bacteria. M. SHLEZINGER*, L. KHALIFA, J. GOLDSTEIN, Y. HOURI-HADDAD, R. HAZAN, N. BEYTH (Department of Prosthodontics, Hebrew University-Hadassah School of Dental Medicine, Jerusalem, Israel, Jerusalem, Israel)
- S1262** The Molecular Basis of Triazole Inhibition of an Antifungal Target. D. GRAHAM*, R. WILSON, M. KENIYA, A. SAGATOVA, M. WOODS, M. SABHERWAL, J. TYNDALL, B. MONK (Sir John Walsh Research Institute, Faculty of Dentistry, University of Otago, Dunedin, New Zealand)

- SC1263** Multiple Myeloma Alterations of the Jaws: A Clinical Study. D. CHAABOUNI*, M. JGUIRIM, I. CHAABANI, M. KHEMISS, N. BERGAOUI, M. BEN KHLIFA, T. BEN ALAYA (Oral Radiology, Dental Clinic, Monastir, Monastir, Tunisia)
- S1264** The Role of CALML3 in Oral Squamous Cell Carcinoma. P. HANKINSON*, D. LAMBERT, K. HUNTER (School of Clinical Dentistry, University of Sheffield, England, UK)
- I265** Permanent Dentition Avulsion Injuries in School Children. L. LEE*, A. LIM, L. CHERYL, C. SARAH, W. LIM, H.J. TONG (National University of Singapore, Singapore, Singapore)
- SC1266** Bacterial Contamination of Computer's Frequently Touched Surfaces: A Comparative Study. K. ALI*, Y. BEHBEHANI, N. SALAKO, M. QUDEIMAT, V. ROTIMI (Faculty of Dentistry, Kuwait University, Jabreya, Kuwait)
- C1267** Efficacy of Er:YAG Laser Versus Ultrasonic in Endodontic Retreatment. H. AL RUBAI*, M.OMER GORDUYSUS, H. AL-RUBAI, B. SALMAN, D. AL SAADY, H. DAGISTHANI, S. MUFTUOGLU, S. YILDIZ (college of dental medicine, sharjah university, Ajman city, Ajman, United Arab Emirates)
- S1268** Biocompatibility of MSC-PDL Cells Onto PLA Fibers Scaffolds Synthetize by Air Jet Spinning as Strategy for Periodontal Tissue Regeneration. L. HERNÁNDEZ RIVERA*, J.L. SUÁREZ-FRANCO, J. ROMERO-RICAVAR, B. CERDA-CISTERNA, J.J. MONTESINOS-MONTESINOS, M. ALVAREZ-PEREZ (Student, Universidad Veracruzana, Orizaba, Veracruz, Mexico)
- SEI269** Body Mass Index and Dental Caries in Children and Adolescents in Nigeria. U. AMAECHI*, E. OTOH, O. TAIWO, R. MAJEDUNMI, A. UMOH, M. GYANG (Intercountry Center for Oral Health, Jos, Plateau, Nigeria)
- SEI270** Stress and the Dental Student at a South African University. K. ROZMIAREK*, N. NZIMA (Sefako Makgatho Health Sciences University, Witbank, South Africa)
- S1271** Oral Health Care and Geographic Access Barriers in Nariño (Colombia). A. CAICEDO ROSERO*, J. ESTRADA MONTOYA (Facultad de Odontología, Universidad Nacional de Colombia, Bogota, Colombia)
- S1272** Resin-Cemented Curved Monolithic Glass Structures: Novel Stress Determination and Fractography. H. BYRNE*, O. ADDISON, G. FLEMING (Materials Science Unit, University of Dublin, Dublin, Ireland)
- S1273** Effect of Thermal Curing on Hardness of Glass Ionomer Cements Albad BS, Almousawi FA, Ngo HC, Swain MV. B. AL ABAD* (Kuwait university, Kuwait, Kuwait)
- SC1274** Elucidating the Structure of Amelogenin Ribbons Using X-ray Crystallography. M. NGUYEN*, K. CARNEIRO, S. HABELITZ, J. BONDE (Preventive and Restorative Dental Sciences, University of California, San Francisco, San Francisco, California, USA)
- S1275** Association Between Colorectal Cancer Polymorphic Variants and Isolated Tooth Agenesis. M. WILLIAMS*, N. DINCKAN, K. MAHESHWARI, R. SILVA, S. AKYALCIN, A. LETRA (Department of Orthodontics, University of Texas School of Dentistry at Houston, Houston, Texas, USA)

Seq#: 182 Friday, 24 June 2016, 3:30 p.m. – 4:45 p.m.
Poster Session, Hall B

IADR Unilever Hatton Competition – Senior-Basic Science

- SC1276** The Effectiveness of Er:Cr:YSGG and Sonic Activations on *Enterococcus faecalis*. M. AHMED*, S. H. MOHAMMED (Conservative Dentistry, College of dentistry/Mosul university, Mosul, Iraq)

- S1277** The Osteoprotective Effect of Estrogen Receptor Alpha in Maxillary Bone. S. MACARI*, L. SHARMA, A. WYATT, P. KNOWLES, R. SZAWKA, D. GRATTAN, G. DIAS, T. SILVA (Federal University of Minas Gerais, Belo Horizonte - MG, Minas Gerais, Brazil)
- S1278** Microenvironmental Signalling in Oropharyngeal Carcinoma: A Future Therapeutic Target Based on HPV Status?. R. BOLT*, C. MURDOCH, D. LAMBERT, S. THOMAS, B. FORAN, K. HUNTER (School of Clinical Dentistry, University of Sheffield, England, UK)
- S1279** Surface Roughness of Two Composites After Different Polishing Techniques. D. KRITZINGER* (Odontology, University of Pretoria, Pretoria, South Africa)
- I280** Discrimination Between Normal, Dysplastic and Cancerous Oral Mucosa Using Raman Spectroscopy: A Tissue-engineering Approach. S.A. MIAN*, M. SAADULLAH, C. YORUCU, I.U. REHMAN, H. COLLEY (Biomaterials and Tissue Engineering, University of Sheffield, England, UK)
- S1281** Novel *In-vitro* Bi-Layered Model Simulating Tooth Periodontium Under Orthodontic Force. A. KHADRE*, E.-M. RAIF, O.-M. GOUDOURI, S. JUNAID, W.R. REFAAT, A. RAMADAN, A. BOCCACCINI, R. EL-GENDY (Suez Canal University, Zagazig, Sharkia, Egypt)
- SCI282** Flexible Dental Handpiece Design: Breaking the Rules to Reach the Unreachable. M. KHANDELWAL*, V. PAI, S. MISHRA, I. GUPTA (CONSERVATIVE DENTISTRY AND ENDODONTICS, KVG DENTAL COLLEGE, HAZARIBAGH, JHARKHAND, India)
- SCI283** Improving the Detection of the Mandibular Canals on CBCT. G. JASA*, M. SHIMIZU, K. OKAMURA, K. TOKUMORI, Y. TAKESHITA, W. WEERAWANICH, K. YOSHIURA (UNIVERSITY of the REPUBLIC, MONTEVIDEO, Uruguay)
- S1284** Repairing the Function of Injured Nerves With Novel Mesenchymal Population. Y. YAMAUCHI*, S. ITOH, M. HAYASHI (Osaka University Graduate School of Dentistry, Osaka, Japan)
- S1285** "New-haploid" *Candida albicans* Unravels IRA2 as a Major Biofilm Regulator. T. TRUONG*, G. ZENG, S. WONG, F.Y. CHAN, Y.-M. WANG, L. SAMARANAYAKE, Y. WANG, C. SENEVIRATNE (National University of Singapore, Singapore, Singapore)
- S1286** Involvement of PLAP-I in Obesity and Adipocyte Differentiation. H. SAKASHITA*, S. YAMADA, K. TSUSHIMA, T. KAJIKAWA, T. AWATA, S. YAMABA, M. TAKEDACHI, S. MURAKAMI (Department of Periodontology, Osaka University Graduate School of Dentistry, Suita, Osaka, Japan)
- S1287** Repeated *Porphyromonas gingivalis* Infections Confer Destructive Functions to Dendritic Cells. G. MIZRAJI*, H. SEGEV, T. CAPUCHA, M. NASSAR, L. SHAPIRA, A.-H. HOVAV, A. WILENSKY (Bio-Medical Sciences, Faculty of Dental Medicine - Hebrew University, Ramat Gan, Israel)
- S1288** Neuroimmune Components in Dental Pulp of Teeth With Chronic Periodontitis. M. LOVERA*, M. SEPULVEDA, K. SUZUKI, B. DONOSO, O. SCHMACHTENBERG, E. COUVE (Universidad de Valparaíso, Valparaíso, Chile)
- S1289** Wnt/ β -catenin Signaling Pathway is a Key Pathological Regulator for Hypophosphatemic Rickets/Osteomalacia. S. LIN*, J. FENG, X. JIANG (Department of Prosthodontics, Ninth People's Hospital affiliated to Shanghai Jiao Tong University, School of Medicine, Shanghai, China)
- S1290** Establishment of Genetically Characterized OSCC Patient-Derived Xenograft Models. R. ZHOU*, C. SHI, S. SUN, Z. ZHIYUAN (Oral and Maxillofacial & Head and Neck Oncology, Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, Shanghai, China)
- S1291** Impact of Estradiol on the Dipeptidyl Peptidase IV Enzyme Activity of the *Prevotella intermedia* Group Bacteria. D. FTEITA*, E. KONONEN, M. GÜRSOY, E. SODERLING, U. GURSOY (Department of Periodontology, Institute of Dentistry, University of Turku, Finland)
- S1292** *Streptococcus mitis* Response to the Competence Pheromone. G. SALVADORI DA SILVA*, R. JUNGES, H. ÅMDAL, T. CHEN, F. PETERSEN (Institute of Oral Biology, University of Oslo, Oslo, Norway)
- S1293** On-demand Bone Regeneration Using Ultrasound-Triggered Nanocomplexes for Delivery of BMP-2. G. CRASTO*, N. KARTNER, M. MANOLSON, S. PEEL (Oral and Maxillofacial Surgery, University of Toronto, Ontario, Canada)
- S1294** Detection of Cervical Lymph-Node Metastasis in OSCC Using Cytokeratin-19 Immunohistochemistry. R. EL MADDANI*, A. TRIANTAFYLLOU, R. SHAW, J. RISK (Department of Molecular and Clinical Cancer Studies, Institution of Translational Medicine, University of Liverpool, Liverpool, United Kingdom)
- I295** *Porphyromonas gingivalis* Infection Exacerbates Rheumatoid Arthritis in Experimental Mice Model. M. YAMAKAWA*, K. OUHARA, M. KAJIYA, M. KITAKA, N. MIZUNO, K. TAKEDA, H. SHIBA, T. FUJITA, H. KURIHARA (Department of Periodontal Medicine, Hiroshima university, Hiroshima, Kasumi/Minami-ku, Japan)
- I296** OsteoMacs and Multi-Nucleated Giant Cells: Key Players Around Bone Biomaterials?. R. MIRON* (University of Bern, Bern, Switzerland)
- S1297** *In Vitro* Behavior of Human Dental Pulp Stem Cells (hDPSC) on Polylactic/Polyglycolic Acid Scaffolds With and Without Hydroxyapatite. N. JIMÉNEZ*, S. PERDOMO LARA, J. GONZALEZ, J. MUNEVAR (Master in dentistry, Universidad Nacional de Colombia, Bogota, Colombia)
- I298** Connexin 43 Induces Odontoblast Differentiation in Incisors of Rats With Dental Fluorosis. P. FONTANETTI*, R. GALLARÁ, V. INTERLANDI, R. PONCE, A. RIGALLI, V. CENTENO (School of Dentistry, Universidad Nacional de Córdoba, Córdoba, Argentina)
- I299** Periodontal-Pathogen OMVs: Immune-stimulants, Virulence and Risk Factors for Chronic Periodontitis. J. CECIL*, N. O'BRIEN-SIMPSON, J. LENZO, J. HOLDEN, Y.-Y. CHEN, W. SINGLETON, K. GAUSE, Y. YAN, F. CARUSO, E. REYNOLDS (University of Melbourne, Whittlesea, Victoria, Australia)
- I300** Novel Biomodification Agent From Cashew Nut: Efficacy on Dentin Bonding. V. FEITOSA*, N. DE OLIVEIRA SOUZA, M. LEMOS, A. OGLIARI, F. OGLIAIR, F.J. NOGUEIRA MAIA, D.L. VASCONCELOS DE OLIVEIRA, S. MAZZETTO (Restorative Dentistry, Federal University of Ceara, Fortaleza, Brazil)
- I301** Dentin Detritus Removal: New Device ActivEndo National Fabrication. E.D. SANABRIA LIVIAC*, M.G. CASARETTO GAMONAL, G. SOLIS SANCHEZ (Universidad Inca Garcilazo de la Vega, Jesús María, Peru)
- I302** Salivary Gland Regeneration Using Differentiated Populations From Human Progenitor-like Cells. P.P. SRINIVASAN*, PATEL, D. HARRINGTON, M. HOFFMAN, JIA, R. WITT, M. FARACH-CARSON, S. PRADHAN-BHATT (Biological Sciences, University of Delaware, Newark, Delaware, USA)
- S1303** Tristetraprolin is Required for Alveolar Bone Homeostasis. H. STEINKAMP*, B. HERBERT, H. YU, M. CHAVEZ, K. KIRKWOOD (Oral Health Sciences, Medical University of South Carolina, Charleston, South Carolina, USA)
- S1304** Orail Promotes Oral Cancer Progression by Enhancing Cancer Stemness via NFAT Signaling. S.H. LEE*, N. RIGAS, C.-R. LEE, S. SRIKANTH, Y. GWACK, R. KIM, N.-H. PARK, K.-H. SHIN (School of Dentistry, University of California, Los Angeles, USA)

I305 Epigenetic Repression of Autophagy: A Novel Solution for Chemoresistance in HNSCC. I. CHANG*, C.-Y. WANG (Division of Oral Biology & Medicine, University of California, Los Angeles, USA)

S1306 Effects of Polycaprolactone-Magnetic Nanoparticles (PCL-MNPs) Scaffold on Growth and Odontoblastic Differentiation in Human Dental Pulp Cells. M. KIM*, H.-W. KIM, E.-C. KIM (Department of dental biomaterials and bioengineering, Yonsei university, Seoul, Korea (the Republic of))

SCI306.1 Evaluation of the Diagnostic Accuracy of CBCT-Based Interpretations of Maxillary Impacted Canines. H. AL HOMSI* (Department of Orthodontics, University of Damascus, Dental School, Damascus, Syrian Arab Republic)

Seq#: 183 Friday, 24 June 2016, 3:30 p.m. – 4:45 p.m.
Poster Session, Hall B

IADR Unilever Hatton Competition – Senior-Clinical Research

SCI307 Effect of Gingival Inflammation on the Inflammatory Response in Patients With Idiopathic Uveitis. A. AKCALI*, S. GÜVEN YILMAZ, D. LAPPIN, S. EĞRİLMEZ, N. BUDUNELI (Department of Periodontology, School of Dentistry, Ege University, Izmir, Turkey)

S1308 Laser-sintered Removable Partial Dentures (RPDs) Translation From Lab to Clinic. O. ALAGEEL*, B. ALMUFLEH, M.-N. ABDALLAH, F. DE MELO, E. CARON, F. SENG, S. ABI NADER, A. AL-HASHEDI, R. ALBUQUERQUE, F. TAMIMI (Faculty of Dentistry, McGill University, Montreal, Quebec, Canada)

SCI309 The Effect of Referral for Dental Service on Dental-Service Utilization. N. ONYEJAKA*, M. FOLAYAN, N. FOLARANMI (Child Dental Health, university of Nigeria Teaching Hospital, Enugu, Enugu, Nigeria)

SCI310 A Novel Predictive Examination for Vital Bone in Grafted Sinus. G. BORGIA* (Implants, UdelaR, Montevideo, Montevideo, Uruguay)

S1311 Utilization of Dental Services by High School Adolescents of Mexico. D. GALICIA DIEZ BARROSO*, J. DE LA FUENTE-HERNANDEZ, M. VILLANUEVA VILCHIS, T. FINLAYSON (National Autonomous University of Mexico, Mexico, Mexico)

SEI312 Effect of Mastication on Satiety Using an Attentional Bias Task. A. IKEDA*, J. MIYAMOTO, N. USUI, M. TAIRA, K. MORIYAMA (Maxillofacial Orthognathics, Graduate School, Tokyo Medical and Dental University, Tokyo, Japan)

SCI313 Evaluation of Dentin-Polymer Material Interfaces in Restorative Dentistry: *in Vitro* & *In vivo* Studies. N. BESSUDNOVA*, O. AVRAAMOVA, Z. AKHMEDOVA, T. KULAZHENKO, V. LEONTYEV (Central Research Institute of Dentistry and Maxillofacial Surgery, Moscow, Moscow, Russian Federation)

S1314 Mandibular Exercises and Conditioned Pain Modulation in Women With Temporomandibular Disorders. J. OYARZO*, M. GOLD, T. HECTOR (Odontological Science Department, Universidad Andres Bello, Santiago, Chile)

SCI315 HMGB1-Protein as a Possible Marker to Identify Side Effects in Periodontal Remodeling Following Mechanical Loading. M. WOLF*, R. CRAVEIRO, K. KÜPPER, S. LOSSDÖRFER, A. JÄGER (Orthodontics, University Bonn, Bonn, Germany)

I316 Three-year Survival of ART and CRT Restorations in Patients With Disability. G. MOLINA*, I. MAZZOLA, R. CABRAL, J. MULDER, J. FRENCKEN (Facultad de Odontología, Universidad Nacional de Córdoba, Córdoba, Argentina)

I317 Levels of Common Salivary Protein I (CSPI) in Healthy Subjects and Periodontal Patients. S.-M. HEO*, S. LEE, E.Y. CHOI, S.W. OH (Periodontology, School of Dentistry, Chonbuk National University, Jeonju, Jeonbuk, Korea (the Republic of))

C1318 Salivary MMP-8 Levels and Periodontal Health Status Among Adults Attending the University of Nairobi Dental Hospital. G. MWAI*, T. MULLI, F. MACIGO, L. GATHECE (Department of Periodontology/Community and preventive dentistry, University of Nairobi, School of Dental Sciences, Nairobi, Kenya)

Seq#: 184 Friday, 24 June 2016, 3:30 p.m. – 4:45 p.m.
Poster Session, Hall B

Behavioral, Epidemiologic, and Health Services Research – Dental Caries, Tobacco & Ortho Treatment Practices

S1319 National Surveillance System and the Trend of Korean Children's Dental Caries Experiences. H. LEE*, J. CHOI, D.-Y. PARK, K. OH (Korea center for disease control and prevention, Chungju, Korea (the Republic of))

I320 Molar-incisor Hypomineralization: Prevalence and Associated Factors. N. DANTAS-NETA, C. LIMA, S. AQUINO, M. LIMA, S. PAIVA, I. PORDEUS* (Paediatric Dentistry, Universidade Federal de Minas Gerais, Belo Horizonte, Minas Gerais, Brazil)

E1321 Prevalence and Severity of Tooth Wear in Adults and Older Adults. P. SRISILAPANAN*, K. SUKKASEM (Family and Community Dentistry, Chiang Mai University, Chiang Mai, Thailand)

SCI322 Gender-Specific Association Between Periodontal Disease and Job Classification Among Employees. Y. HARADA*, K. TAKEUCHI, M. FURUTA, S. TANAKA, Y. YAMASHITA (School of Dentistry, Kyushu University, Fukuoka, Japan)

S1323 Comparison of the Arabic Versions of Two Early Childhood OHRQoL Measures. H. ALQABBANI* (Riyadh Colleges of Dentistry and Pharmacy, Riyadh, Saudi Arabia)

E1324 Comparison of Dental Status Among Proto Malay Schoolchildren in Eastern Indonesia. G. GOENAWAN*, S. LESTARI, T.E. ASTOETI, W. SUDHANA (Community and Preventive Dentistry, Trisakti University, Jakarta Barat, Indonesia)

I325 Untreated Dental Caries in Brazilian Children Five Years Old and Associated Factors. E. FERREIRA*, R. FERREIRA, R.N. MOURA, P. ZARZAR, D. TRAVASSOS (Department of Community and Preventive Dentistry, University Federal of Minas Gerais, Belo Horizonte, Minas Gerais, Brazil)

E1326 Risk of Enamel Fluorosis in Primary Dentition Among 5-year-old Children. T. TRAN*, H. HOANG, N. NGUYEN (Faculty of Odonto-Stomatology, Dental Public Health, University of Medicine and Pharmacy HoChi Minh city, Ho Chi Minh city, Viet Nam)

I327 Non-communicable Diseases and Oral Health Status of Japanese Dental Patients. K. FUKAI*, M. FURUTA, J. AIDA, Y. SHIMAZAKI, Y. ANDO, H. MIYAZAKI, M. KANBARA, M. SUMITOMO, T. SATO, T. YAMASHINA, M. OKUBO (8020 Promotion Foundation, Tokyo, Japan)

I328 Tobacco Use Behavior and Related Factors Among Dental Patients in Thailand. P. LAOHAPAND, W. CHIDCHUANGCHAI* (Oral Medicine and Periodontology, Faculty of Dentistry, Mahidol University, Bangkok, Thailand)

I329 Impact of Orthodontic Treatment on the Families of Adolescents. L. ABREU*, C. MELGAÇO, M.H. DE ABREU, T. SANTOS, E. LAGES, S. PAIVA (Universidade Federal de Minas Gerais (Federal University of Minas Gerais), Belo Horizonte, MG, Brazil)

I330 Impact of Orthodontic Treatment on Adolescents' Quality of Life. L. ABREU, C. MELGAÇO, M.H. DE ABREU, T. SANTOS, E. LAGES, S. PAIVA* (Federal University of Minas Gerais, Belo Horizonte-MG, Brazil)

E1331 Culture and Antibiofilm Guided Selection of Prophylactic Antibiotic for Dental Implant Surgery. B. CEPEDA*, P. CAMACHO, C. JARAMILLO, D. PORRAS, C. CEPEDA, J. ROMERO, G. ARDILA (Clinical Research, UNICIEO University, Bogota, Colombia)

Seq#: 185 Friday, 24 June 2016, 3:30 p.m. – 4:45 p.m.
Poster Session, Hall B

**Cariology Research-Clinical and Epidemiological Studies –
Clinical Studies in Cariology-Risk Factors**

C1332 Developmental Defects of Enamel: Risk Factors and the Impact on Oral Health-related Quality of Life in Children and Adolescents. R. WERNECK*, S. MOYSES, S. MOYSES, L. ARIMA (PUCPR, Curitiba, Brazil)

I333 Enamel Hypoplasia is Not Associated With Dental Caries in 5-to-14-years-old Children. P. JIMENEZ*, D. RIVERA, V. PEREZ (Pediatric stomatology, University of Talca, Talca, Maule, Chile)

I334 Comparison of Salivary pH, Buffer Capacity Between Children With and Without Caries. J. BAI*, A. JI, J. WANG, W. SUN, H. CHEN, M. QIN (Peking University School and Hospital of Stomatology, Beijing, China)

SC1335 Correlation of Calcium and PTH Levels With Early Childhood Caries. A. JAYAKUMAR*, D. GURUNATHAN (Pedodontics, Saveetha Dental College, Chennai, Tamil Nadu, India)

I336 Risk Indicators for Early Childhood Caries in 3-year-old Chinese Children. L.X. YU*, Y. TAO, R.M. QIU, Y. ZHOU, Q.H. ZHI, H.C. LIN (Department of Preventive Dentistry, Guanghua School of Stomatology, Sun Yat-Sen University, Guangzhou, China)

I337 Finger Dermatoglyphics in Predicting Susceptibility to Dental Caries-Descriptive Study. P. RAMANI* (Oral and maxillofacial pathology, Saveetha Dental College and Hospitals, Chennai, India)

SC1338 Caries Experience and its Association With MIH and HSPM in 6 to 12 Year-old Schoolchildren From Melbourne. K. GAMBETTA-TESSINI*, R. MARI—O, A. GHANIM, H. CALACHE, D. MANTON (Melbourne Dental School, The University of Melbourne, Melbourne, Victoria, Australia)

S1339 Potential Link Between Eczema Severity and Dental Caries Susceptibility. T. KALHAN*, C. UN LAM, E. LOO, B. KARUNAKARAN, P.T. TAN, Y.H. CHAN, H. VAN BEVER, A. GOH, O.H. TEOH, S.M. SAW, K. KWEEK, K. GODFREY, Y.S. CHONG, B.W. LEE, L. SHEK, P.L. CHAY, C.K. CHNG, C.-Y. HSU (FACULTY OF DENTISTRY, NATIONAL UNIVERSITY OF SINGAPORE, SINGAPORE, Singapore)

S1340 Comparison of Salivary pH Among Controlled and Uncontrolled Diabetic Individuals. J. SRINIVASAN*, A. RAMASUBRAMANIAN (Dentistry, Saveetha Dental College, Chennai, Tamil Nadu, India)

C1341 Factors Affecting Dental Caries Among Bangladeshi Children With Cerebral Palsy. D.R. AKHTER*, N.M. HASSAN, M. MUHIT, N. BADAWI, H. SMITHERS-SHEEDY, C. JONES, G. KHANDAKER (Cariology, The University of Sydney, Westmead, New South Wales, Australia)

E1342 Adult Caries Scores Moderately Correlated With Childhood Psychosocial Stressors. S. WHITE*, H. CHEN, K. NGUYEN, D. LIAO, P. RAJABI, S. LOHIYA, A. RAD, R. SHARMA, A. KARLAMANGLA, T. SEEMAN (University of California - Los Angeles, Los Angeles, California, USA)

C1343 Association Between 0.7ppm Water Fluoridation and Caries in Primary Teeth. H. WHELTON*, M. HARDING, T. BEECHER, P. JAMES, H. GUINEY (School of Dentistry, University of Leeds, Leeds, United Kingdom)

S1344 Replication of the KLK4 gene on dental caries susceptibility on a population in south Brazil. T. CAVALLARI, S. MOYSES, S. MOYSES, R. WERNECK, P.C. TREVILATTO* (Pontifícia Universidade Católica do Paraná, Curitiba, Brazil)

Seq#: 186 Friday, 24 June 2016, 3:30 p.m. – 4:45 p.m.
Poster Session, Hall B

**Dental Materials 2: Polymer-based Materials – Dental
Materials: Polymer-based Materials VII**

I345 Wear Resistance Evaluation of Adhesive Resin Cement for Esthetic Restorations. S. AKIYAMA*, R. AKATSUKA, K. SASAKI (Next-generation Dental Materials Research, Tohoku University, Sendai, Japan)

S1346 Surface Roughness of Bulk Fill and Low-Stress Composites. T. UNAL*, N. SIRINSUKAN, E. CAN SAY (Department of Restorative Dentistry, Yeditepe University, Istanbul, Turkey)

I347 The Effects of Surface Roughness on Bond Strengths With Hybrid Ceramics. W.-H. KIM, H.C. YOO*, M.-H. OH (R&D Center, VERICOM CO.,LTD, Anyang-Sil, Gyeonggi-Do, Korea (the Republic of))

C1348 The Effect of IPN Thermoplastic on Bonding Properties of Fibre-reinforced-composite. M. HATTA*, A. SHINYA, E. SÄILYNOJA, H. GOMI, P. VALLITTU, L. LASSILA (General Dentistry, The Nippon Dental University Hospital, Tokyo, Japan)

I349 The Effects of Newly Formed Synthetic Collagen on Bone Regeneration in Pigs Calvarial Defects. D. KIMURA*, S. BABA, Y. HASHIMOTO, M. UMEDA (Periodontology, Itami city, Japan)

S1350 Antibacterial Effect of Xanthorhizol Mixed in Experimental Fluoride Varnish. S. JULEE*, A.-J. KIM, S. OH, J.-M. BAE (Dental Biomaterials, Wonkwang University, Dental College, Iksan, Jeonbuk, Korea (the Republic of))

SC1351 Characterization of Four Bulk-fill Resin Composites. I. PORTO*, T. SILVA, R. LINS, I. MELO (Restorative Dentistry, Federal University of Alagoas, Maceio, Alagoas, Brazil)

SC1352 Clinical Performance of Direct Versus Indirect Composite Restorations in Posterior Teeth – A Systematic Review. R. AZEEM* (Endodontics, Saveetha dental college, Chennai, Tamil nadu, India)

S1353 OCT Evaluation of Composite Restoration Resealing by Low-viscosity Resin Infiltration. J. ESPIGARES*, J. HAYASHI, Y. SHIMADA, J. TAGAMI, A. SADR (Tokyo Medical and Dental University, Tokyo, Japan)

I354 Wear Properties of Flowable Composites by Two-body Sliding Abrasion Test. S. NOMOTO*, Y. FAN, A. ALAYAD, D. NATHANSON (Department of Restorative Sciences and Biomaterials, Henry M. Goldman School of Dental Medicine, Boston University, Boston, Massachusetts, USA)

- I355** Effect of Setting-condition and Medium pH on Long-term Fluoride Release. C. SHEN* (Restorative Dental Sciences, University of Florida, Gainesville, Florida, USA)
- I356** Speeded Plus in Comparison With Other Self-adhesive Luting Materials. A. GIANASMIDIS*, A. BROTH, B. GRABENBAUER, D. KALBERER, M. WESTPHAL, P. BURTSCHER (IvoclarVivadent AG, Schaan, Liechtenstein)
- I357** Impact of Dissolved Helium on Polymerisation Shrinkage of Dimethacrylate Resin-blends. F. RODRIGUES*, A.L.S. BORGES, M. DUTRA-CORREA, W. PALIN, O. ADDISON (Dental Materials and Operative Dentistry, UNIP- Paulista University, Sao Paulo, Sao Paulo, Brazil)

Seq#: 187 Friday, 24 June 2016, 3:30 p.m. – 4:45 p.m.
Poster Session, Hall B

Dental Materials 3: Metal-based Materials and Other Materials – Metal-based Materials and Other Materials II

- SCI1358** Comparative Study of the Physical Properties of 3D-printing vs. Powder-metallurgy Cobalt Chromium. A. BARAZANCHI*, K.C. LI, J. WADDELL, B. AL-AMLEH, K. LYONS (Department of Oral Rehabilitation, Sir John Walsh Research Institute, Faculty of Dentistry, University of Otago, Dunedin, New Zealand)
- I359** Optimum Conditions for Resistance-heat-bending of NiTi Arch Wire. M. YAMAMOTO*, K. MOTOMURA, H. NAKAMURA, T. YOSHIOKA, S. TANAKA (Teacher's Union, Tokyo Medical & Dental University, Ishigaki-Shi, Okinawa, Japan)
- CI360** *In Vitro* Assessment of A Novel Bracket's Effect on Resistance to Sliding. J. BLACKBURN, E. TUFEKCI*, M. ERGUN, S. LINDAUER (Dept. of Orthodontics, Virginia Commonwealth University, Richmond, Virginia, USA)
- I361** Comparison of Antibacterial Effect of TiO₂ and Se Nanoparticle-decorated TiO₂-Nanotubes. W. LIU*, X. DENG, T. WEBSTER (School and Hospital of Stomatology, Peking University, Beijing, China)
- I362** Compressive Strength Evaluation of Glass-ionomer Cements in Predefined Class II Restorations. A. IONESCU*, G. CAZZANIGA, M. OTTOBELLI, P. PARISET, M. BELLUZ, E. BRAMBILLA (Biomedical, Surgical and Dental Sciences, IRCCS Galeazzi Institute, University of Milan, Milano, Italy)
- CI363** Micro-XRD Investigation of EndoSequence and MTA Root-Repair Material Setting Reactions. S. ALAPATI, M. IJIMA*, W. BRANTLEY, S. ITO, T. MUGURUMA, T. SAITO, I. MIZOGUCHI (Division of Orthodontics and Dentofacial Orthopedics, Health Sciences University of Hokkaido, Hokkaido, Japan)
- CI364** Root Fortification With Several Materials After the Removal of a Broken Instrument From the Apical Part of Root Canal. Y. ÜSTÜN*, S. DÜZGÜN, F. AKPEK, T. ASLAN, M. AYDINBELGE (Endodontics, Erciyes University, Faculty of Dentistry, Kayseri, Turkey)
- I365** Sonic and Ultrasonic Application During Insertion of Glass-Ionomer Cement. R. PASCOTTO*, N. IOSHIDA, N. HIRONAKA, J. TRIZZI, M. BAESSO, N. PINI, J. BOTELHO, C. TABCHOURY, J. CURY (Dentistry, State University of Maringa, Maringa PR, Brazil)
- EI366** Sealing Ability of Different Root Canal Sealers - A Systematic Review. S. SHARMA* (conservative dentistry and endodontics, Saveetha Dental College, Chennai, Tamilnadu, India)

Seq#: 188 Friday, 24 June 2016, 3:30 p.m. – 4:45 p.m.
Poster Session, Hall B

Dental Materials 4: Adhesion – Adhesion in Operative Dentistry

- SI367** Bond Strength of a Flowable Bulk-fill Resin Composite in MOD Cavities After Chewing Simulation. J. RODRIGUES*, C. ELY, A. REIS, R. KUMAGAI, J.-F. ROULET (Department of Operative Dentistry, Guarulhos University, Guarulhos, SP, Brazil)
- I368** OCT-Assessment of Tooth-Composite Bond with Universal Adhesives. H. SCHNEIDER*, T. MEISSNER, C. RÜGER, R. HAAK (Department of Cariology, Endodontology and Periodontology, University of Leipzig, Leipzig, Germany)
- CI369** Microshear Bond Strength of Self-adhering Flowable Composite to Dentin. R. SAKOOLNAMARKA*, C. BUMRUNGRUAN (Operative Dentistry, Chulalongkorn University, Bangkok, Thailand)
- CI370** Evaluation of Bond Strength of Self-etch Adhesives With Flowable Composite-resins. K. HONDA*, A. ARITA, T. KUMAGAI (R&D Dept., GC Corporation, Itabashi-ku, Tokyo, Japan)
- SCI371** Effect of Chemical Pretreatments on Tensile Bond Strength of Resin Composite to Er:YAG Lased Dentin. Y. MURASE*, S. KUSAKABE, H. KOTAKE, M. HOTTA, T. YAMAMURA, M. ANDO (Asahi University, School of Dentistry, Mizuho-shi hozumi 1851, Gifu-ken, Japan)
- CI372** Effect of Surface Treatments on Bond-Strength of Composites for Class-5-Fillings. K. SCHULZE*, W. NOBLE, H. ALENEZI, M. BHATTACHARYYA (University of the Pacific, San Francisco, California, USA)
- I373** Effect of Calcium Sodium Phosphosilicate on Composite-dentin Microtensile Bond Strength. M. PANICH* (Operative Dentistry, Faculty of Dentistry, Chulalongkorn University, Rajthevi, Bangkok, Thailand)
- CI374** The Comparison of the Micro Push-out Bond Strength and FEA of MTA Based, Bioceramic Based and Epoxy Resin Based Sealer. P. NONSUNG, A. JAINAEN*, R. NOISOMBUT, N. PHOLDEE (Restorative Department, Khon Kaen University, Muang, Khon Kaen, Thailand)
- SCI375** Effect of Pre-treatment of the Post Room Surface on the Push out Bond Strength of Fiber Post Luted With Self-adhesive Resin Cement. I.-J. SONG*, H.-H. JO, J.-B. MIN, H.-K. HWANG (Conservative dentistry, Chosun university, Gwangju, Korea (the Republic of))
- I376** Influence of UV Irradiation and Low-temperature Plasma Technology on the Micro-push out Bond Strength of Fiber Posts. H. LIN*, Y. CHAI, S. YUAN, J. HAN, Y. XU, X. ZHANG (Dental Materials Lab.& Dental Medical Devices Testing Center, Peking University School and Hospital of Stomatology, Beijing, China)
- I377** Bonding of a New Multi-functional Composite in Fiber Post Reconstructions. P. BALDISSARA, C. PARISI, A. MARCHIONATTI, C. CASTELLETI*, R. SCOTTI (Prosthodontics, University of Bologna, Bologna, Bo, Italy)

Seq#: 189 Friday, 24 June 2016, 3:30 p.m. – 4:45 p.m.
Poster Session, Hall B

Dental Materials 7: Color and Appearance (Esthetics) – Color & Appearance (Esthetics) II

- I378** Clinical Performance and Color Stability of Infiltrated Enamel White Spots. C. FENG* (Peking University School and Hospital of Stomatology, Beijing, China)

SC1379 Comparison of the Value and Translucency of Composite Resins. D. KIM*, J.-E. BYUN, S.-H. PARK (Department of Conservative Dentistry and Oral Science Research Center, Yonsei University College of Dentistry, Seoul, Korea (the Republic of))

C1380 Whitening Efficacy and Hydrogen Peroxide Penetration based on Tooth Whitening System. S.R. KWON*, W. ARIYAKRIANGKAI, U. OYOYO, Y. LI (Center for Dental Research, Loma Linda University School of Dentistry, Loma Linda, California, USA)

SC1381 Comparison of Shade Reproduction Accuracy With Digital SLR Cameras and Digital Spectrophotometer – A Controlled Clinical Trial. R. MADDULA*, V. SIVASWAMY (Prosthodontics, Saveetha Dental College, Chennai, Tamil Nadu, India)

C1382 Comparison of Tooth Color Change Through the Conventional and Laser Bleaching Techniques. H. NOKHBATOLFOGHAEI*, S. SHAHABI, A. MAHMOUDI NAHAVANDI (Laser Research Center of Dentistry, Tehran University of Medical Sciences, Tehran, Iran (the Islamic Republic of))

C1383 The Bleaching Efficiency and Safety of Plasma Activated Water. J. PAN* (General Dentistry, Peking University School of Stomatology, Beijing, China)

I384 Influence of pH Variation on Physical Properties of Composite Resin. B. PENUGONDA*, K. SRINIVASAN, Y. MICHELSON, P. DEEP, H. ABBAS (Cariology and Comp Care, New York University, New York, USA)

I385 Long-lasting Stain Prevention Efficacy of Whitening Toothpastes in China Market. Y. SU*, X. PAN, Q. LI, B. ZHANG, R. STRAND, N. OCAMPOCHUA (Procter & Gamble Company, Beijing, China)

S1386 Colorimetric Evaluation of Internal Coloration Characteristics of New Silicone Epithesis. K. SUGAWARA*, S. ENDO, H. NORO, D. TESHIGAWARA, T. INO, M. FUJISAWA (Department of Restorative & Biomaterials Sciences, Meikai University School of Dentistry, SAKADO, SAITAMA, Japan)

I387 Effects of Sodium Tripolyphosphate on in Vitro Stain Removal Efficacy. C. WANG*, R. LUCAS, A. SMITH, P. COOPER (University of Birmingham, Birmingham, United Kingdom)

Seq#: 190 Friday, 24 June 2016, 3:30 p.m. – 4:45 p.m.
Poster Session, Hall B

Diagnostic Sciences – Diagnostic Sciences III

C1388 Assessing Field Change Through the Expression of Cytokeratin 18 & 19 in Areas of Erosive Oral Lichen Planus and Adjoining Normal Mucosa. G. MARAGATHAVALLI*, S. PRASAD, A. MUTHUKRISHNAN (Oral Medicine and Radiology, Saveetha Dental College and Hospital, Chennai, Tamil Nadu, India)

S1389 Assessment of Facial Asymmetry in Patients Reporting for Orthodontic Treatment. D. KARTHIKAYAN*, A. FELICITA (Orthodontics, Saveetha Dental College, Nagercoil, India)

S1390 Relationship Between Three Muscle Activity and Morphology of Craniofacial Divergence - An Electromyographic Study. S. SRIDHARAN*, A. KUMAR (Orthodontics, Saveetha Dental college, Chennai, Tamil Nadu, India)

I391 Age Estimation From Mandibular Angle and Teeth on Three-dimensional Computed Tomography. W. KAWASHIMA*, M. UEMURA, I. TODA, H. ORIHARA, A. TAKEMURA (Department of Anatomy, Osaka Dental University, Hirakata, Japan)

SC1392 Diagnostic Accuracy of Optical Coherence Tomography in Periodontal Disease. J.Y. PARK*, J. LEE, S.-H. CHOI, U.-W. JUNG (Periodontology, Yonsei University Dental Hospital, Seoul, Korea (the Republic of))

C1393 Clinical Application and Investigation of the Gingival Biotype Evaluation by CBCT. Y. GONG* (Shanghai Ninth People's Hospital, Shanghai, China)

I394 The Morphological Investigation of Head and Neck Organs in the Systemic Podoplanin Knockout Mice. C. KAJI*, K. TAKARA, Y. HATAKEYAMA, H. KOJIMA, Y. SAWA (Biology, Morphological, Fukuokashi, Japan)

S1395 Estimation of Stature from Head Length and Head Breadth. P. SHAH* (Dentistry, Saveetha dental college and hospitals, Chennai, Tamil Nadu, India)

S1396 Nasal Spirometry in Adenoid Patients. G.D. KUMARESAN*, G. SETHU (Saveetha Dental College and Hospital, Chennai, Tamilnadu, India)

Seq#: 191 Friday, 24 June 2016, 3:30 p.m. – 4:45 p.m.
Poster Session, Hall B

Education Research – Education Strategies Using Technology, Peers, PBL & EBD

S1397 Learning Outcome Measures of Students for Histopathology Diagnosis Using iPad. S. ABDULWAHAB, K.R. DON* (Saveetha Dental College, Chennai, India)

E1398 Effective Teaching of Wave One Technique in a Flipped Classroom. R. BLOCK*, F. MNCUBE-BARNES (Endodontics, Meharry, Chattanooga, Tennessee, USA)

I399 Modern Technologies In Dental Education. B. MAHMOUDI*, S. SURJONO, J. WEUSMANN, B. WILLERSHAUSEN (Operative Dentistry and Periodontology, University Hospital Mainz, Mainz, Rhineland-Palatine, Germany)

E1400 3D E-models for Learning in Dentistry – A Qualitative Study. H.M. WONG* (University of Hong Kong, Hong Kong, Hong Kong)

E1401 Utilisation of Online Instructional Videos. A. RUNG* (Dentistry and Oral Health, Griffith University, Helensvale, Queensland, Australia)

SE1402 The Use of Video Recording in Improving Third Molar Surgery Training. A. MAN*, K.Y. CHEUNG, M.Y.Y. LEUNG (The University of Hong Kong)

SE1403 Study Preferences and Technology, What We Really Know. W. KWON*, S. SPIVAKOVSKY (New York University College of Dentistry, New York, New York, USA)

E1404 To Determine the Impact of iBooks and Flipped Classes on the Student Performance in First Year Undergraduate Dental Curriculum. D. VEERAIYAN* (Prosthodontics, Saveetha University, Chennai, Tennessee, India)

E1405 Effectiveness of an Augmented Reality Simulator in Dental Education. L. GINER*, B. PAULO, B. BALDRICH, M. ARREGUI, M. MERCADÉ (Faculty of Dentistry, Universitat Internacional de Catalunya, Barcelona, Barcelona, Spain)

S1406 Comparison of Peer Led Team Based Learning (PLTVL) and Jigsaw Among Students. K. PATTURAJA*, G. JAYARAJ, A. RAMASUBRAMANIAN (dentistry, Saveetha dental college, Chennai, Tamilnadu, India)

E1407 Impact of 'Evidence-based-teaching/hands-on-courses' in Changing Attitude About Early Caries Detection-and-management. N. GUGNANI*, I. PANDIT, M. GUPTA, S. GUGNANI, S. SONI, V. JUNEJA (Department of Pedodontics and Preventive Dentistry, DAV (C) Dental College and Hospital, Yamunanagar, India)

Implantology Research – Implantology Research:
in vivo studies

- C1408** Immediate Temporization of NobelReplace Conical Connection Implants, up to 3-year Follow-up. S. COLIC*, C. MIRZAKHANIAN, G. HEYDECKE, E. GOTTESMAN, A. BEHNEKE, A. POZZI, R. NÖLKEN, R. BAER, A. FÜGL, W. ZECHNER (Department of Oral Surgery, University of Belgrade, School of Dentistry, Belgrade, Serbia)
- SC1409** Ridge Preservation in an Open Healing Approach Using Bio-Oss® Collagen With and Without the Concomitant use of a Collagen Membrane. M.-J. SONG*, I.-W. CHO, H.-S. SHIN, J.-C. PARK (Periodontology, Dankook university, Asan-si, Chungcheongnam-do, Korea (the Republic of))
- C1410** Prediction of Factors Affecting Prognosis of Implant-Supported Restorations. C.B. CHO, H.-S. PARK, E.-H. KIM, H.-K. KIM, J.S. HAN, J.-B. LEE, S.-H. KIM, I.-S. YEO* (Prosthodontics, School of Dentistry, Seoul National University, Seoul, Korea (the Republic of))
- SI411** Assessment of Dehydrothermally Cross Linked Collagen Membrane for Guided Bone Regeneration Around Peri-implant Dehiscence Defects: A Prospective Randomized Single Blinded Clinical Trial. J.-H. LEE*, J.-S. LEE, W.-S. BAEK, H.-C. LIM, J.-K. CHA, S.-H. CHOI, U.-W. JUNG (Department of Periodontology, Yonsei University, College of Dentistry, Seoul, Korea (the Republic of))
- C1412** Survey on Practice of Informed Consent for Implant Treatment in Hong Kong. D. YOU, E. POW*, E. LO (Faculty of Dentistry, University of Hong Kong, Hong Kong, SAR, Hong Kong)
- I413** Factors Associated With Health Status of Peri-implant Soft and Hard Tissues. M. PIAO* (Peking University School of Stomatology, Beijing, China)
- I414** Application of Oral Implants to Sprinting of Teeth. E. SHIBAHARA, T. YAMAMORI*, J. ITO (Department of Prosthetic Dentistry, Ohu University, Fukushima, Japan)
- C1415** Clinical Application of Repair-oriented Leader Guide Implant Template. S. CHU*, Y. ZHOU (School and Hospital of Stomatology, Changchun, China)
- SI416** "Toronto SNAP": A New Philosophy in Fixed Implant Prosthodontics. S. BORTOLINI, A. BIANCHI, A. NATALI*, R. NARDI, M. FRANCHI, M. RAPANI, P. FACCIONI, U. CONSOLO (PhD School "Enzo Ferrari", University of Modena and Reggio Emilia, Modena, Italy)
- SI417** Implant Prosthetic Retreatments With OT Equator Biologic Abutments: Case Series. S. BORTOLINI, A. BIANCHI*, A. NATALI, R. NARDI, M. MARTINOLLI, M. GIAVATTO, J. GIANNATIEMPO, R.E. FRUGONE-ZAMBRA, U. CONSOLO (PhD School "Enzo Ferrari", University of Modena and Reggio Emilia, Modena, Italy)
- SC1418** Effect of Bollard Copings and Conventional Telescopic Crowns on Implant Stability in Implant-supported Mandibular Over-denture. A. ELSHERBINI*, W. NIEDERMEIER, M. ELKERDAWY, A. EL KHADEM (Prosthodontics, Modern Sciences and Arts university, Cologne, Germany)
- I419** Evaluation of Implant Stability in Implant/ Interconnected Porous Hydroxyapatite Complex Under Functional Loading. K. DOI*, Y. MAKIHARA, H. OUE, K. MORITA, Y. OKI, T. KUBO, K. TSUGA (Department of Advanced Prosthodontics, Hiroshima University Graduate School of Biomedical Sciences, Hiroshima, Japan)
- SC1420** Dental Implants – 10 to 16 Years Later – A Clinical Follow Up. L. ADLER*, C. MODIN, D. ABADJI, L. JANSSON (Specialiststandvården Parodontologi, Folk tandvården Eastman, Stockholm, Sweden)

- I421** Bone-Implant Contact After Maxillary Sinus Augmentation With Two Different Biomaterials. T.-S. CHIU*, N. BITTNER, R. CELENTI, H. PRASAD, D. TARNOW, U. SCHULZE-SPÄTE (Columbia University, New York, New York, USA)
- C1422** A Comparison of Narrow- and Wide-Diameter Implants in the Rehabilitation of Canine and Posterior Regions. K.-Y. LEE*, B.T. TAN, C.-T. LEE, C. LAU, M. TEO, Y.-M. PHAY, J.-H. FU (National University of Singapore, Singapore, Singapore)
- I423** Marginal Peri-implant Bone Loss Using Two Different Types of Fixtures: A Prospective Split-Mouth Clinical Study. A. ROSSI* (Oral Surgery, University of Milan, Milan, Italy)
- C1424** Immediately-loaded Short Implants in Posterior Region: 5-year Prospective Clinical Results. A. COPPOLA, I. ARRIGHI, O. SHIBLY*, M. NILIUS, M. MARCHETTI (Dental School, University at Buffalo, Buffalo, New York, USA)
- I425** Immediate Implant Placement of Custom-made Root-analogue Implants Fabricated From Electron Beam Melted Ti6Al4V: An Experimental Study in Beagle Dog. H.-C. HU* (Peking University School and Hospital of Stomatology, Beijing, China)
- C1426** Radiographic Bone Density Changes Around Implants of Two Different Lengths. P. SAHRMANN*, P. SCHÖN, N. NAENNI, R. JUNG, T. ATTIN, P. SCHMIDLIN (Clinic of Preventive Dentistry, Periodontology and Cariology, University of Zurich, Zurich, ZH, Switzerland)
- C1427** Long-Term Full Case: Severe Periodontal Patient With One-stage Immediate Loading. M. LEE* (Myungin Dental Clinic, Jeonju, Korea (the Republic of))
- I428** Load Characteristics Of Dental Implants Following Preparation Of Fixture Collar. M. SCHNORRENBURG*, A. BORGMANN, F.-J. FABER, W. NIEDERMEIER (Prosthetic Dentistry, University of Cologne, Cologne, Germany)

Microbiology / Immunology – Microbiology/Immunology-Periodontal Disease & Periodontal Pathogens

- SI429** Identification of a Permease Involved in Muropeptide Transport in *Tannerella forsythia*. A. RUSCITTO*, A. SHARMA (Oral Biology, School of Dental Medicine, University at Buffalo, Buffalo, New York, USA)
- I430** Glutathione Catabolism by *Treponema denticola* Increases Apoptosis in hGF Cells. L. CHU*, Y. WU, D. KOLODRUBETZ (Developmental Dentistry/Orthodontics, University of Texas Health Science Center at San Antonio, San Antonio, Texas, USA)
- I431** Study on Association Between Th17/Treg in Aggressive Periodontitis. Y. XIE*, R. SHU, W. SUN (Department of Periodontology, Ninth People's Hospital, SJTU, Shanghai, China)
- E1432** The Impact of *Fusobacterium nucleatum* and *Porphyromonas gingivalis* on Cell Cycle and Cytokines Production of KB Cells. Q. WANG, J. LIU, Y. PAN* (School of Stomatology, China Medical University, Shenyang, China)
- I433** Local and Systemic Cytokines Profiling on *Porphyromonas gingivalis* Induced Rat Periodontitis Model. J. ZHAO*, L. TAN, L. LIN, H. WANG, C. PAN, Y. PAN (Periodontics, School of Stomatology, China Medical University, Shenyang, Liaoning, China)
- I434** *Aggregatibacter Actinomycetemcomitans* Induces Autophagy in THP-1-derived Macrophages. J. CHUNG*, S. KIM, Y.R. SONG, S.M. KIM, H.S. NA, M. PARK (Department of Oral Microbiology, School of Dentistry, Pusan National University, Yangsan-si, Gyeongsangnam-do, Korea (the Republic of))

SI435 Red Fluorescence of Some Oral Bacteria Co-cultured With *Porphyromonas Gingivalis*. S.-Y. KIM*, M.A. LEE, E.J. JUN, J.-B. KIM, S.H. JEONG (Dept. of Preventive and Community Dentistry, Pusan National University, Yangsan-si, Korea (the Republic of))

SI436 Fluorescence Change of *Fusobacterium Nucleatum* Affected by Other Bacterial Growth. M.A. LEE*, S.-Y. KIM, J. KIM, J.-B. KIM, S.H. JEONG (Dept. of Preventive and Community Dentistry, Pusan National University, Yangsan-si, Korea (the Republic of))

I437 Complete Genome Sequencing of *Prevotella Intermedia* and Fine-scale Genomic Analysis. M. NAITO*, Y. OGURA, M. SHOJI, T. HAYASHI, K. NAKAYAMA (Division of Microbiology and Oral Infection, Department of Molecular Microbiology and Immunology, Nagasaki University, Nagasaki, Japan)

SEI438 The Proteolytic Activity of *Porphyromonas Gingivalis* is a Critical Factor for Periodontitis in Mice Model. K. BAEK*, Y. CHOI, Y. CHOI (Seoul National University, Seoul, Korea (the Republic of))

SEI439 Behavior of Green Fluorescence-expressing *Treponema denticola* in Oral Microbial and Host Community. J. SHIN*, Y. KAPILA, A. RICKARD, V. GODOVIKOVA, P. GOETTING-MINESKY, J. FENNO (University of Michigan School of Dentistry, Ann Arbor, Michigan, USA)

I440 Functional and Histologic Characterization of Regulator of Calcineurin-I in Periodontitis. A. KLOCKE*, S. RUETTERMANN, T. FLEMMIG, U. PETERS, E. SOLOMINIDOU, Y. KORKMAZ, T. BEIKLER (Section of Periodontology, University of Duesseldorf, Duesseldorf, Germany)

I441 Effect of pH on the Intrinsic Fluorescence of Oral *Prevotellaceae*. C. HOPE*, K. BILLINGSLEY, S. HIGHAM (Department of Health Services Research, University of Liverpool, Liverpool, United Kingdom)

EI442 Characterization of Potential Effectors from *Tannerella forsythia* in Yeast Model. O. MATANGKASOMBUT*, S. CHOOCHUAY, J. KAEWSONTI, R. SALLABHAN, S. MONGKOLSUK (Faculty of Dentistry, Department of Microbiology and DRU on Oral Microbiology, Chulalongkorn University, Bangkok, Thailand)

Seq#: 194 Friday, 24 June 2016, 3:30 p.m. – 4:45 p.m.
Poster Session, Hall B

Network for Practice-based Research – Practice-based Research

CI443 Practice-based Assessment of Restorations Placed Using an Adhesive in Total-etch and Self-etch Modes. F.T. BURKE*, R.J. CRISP (School of Dentistry, University of Birmingham, Birmingham, United Kingdom)

SI444 Private Practice Pricing in Birmingham, UK: Implications for Oral Health. R. KHAN*, B. AHMED (University of Birmingham, Newcastle Upon Tyne, United Kingdom)

SCI445 Increasing Compliance Factor for Increased Success in Orthodontic Treatment. S. HA*, J. HUANG, A. YOON (UCLA School of Dentistry, Los Angeles, California, USA)

SCI446 Knowledge, Attitude, Practice and Status of Infection Control Amongst Private Dental Practitioners in India. S. SHIVANNI*, D.M.A. BENNIS, N. AHMED (Saveetha Dental College, Chennai, India)

SCI447 The Use of Antibiotics Among Private Dental Practitioners in India - A KAP Survey. S. SATHIYAMOORTHY*, D.M.A. BENNIS, N. AHMED (Saveetha Dental College, Chennai, India)

Seq#: 195 Friday, 24 June 2016, 3:30 p.m. – 4:45 p.m.
Poster Session, Hall B

Neuroscience – TMD & Related Conditions II

I448 Reliability of Masseter and Temporalis Muscle Activities During Molar Biting. J. NICKEL*, Y. GONZALEZ-STUCKER, H. LIU, Y. LIU, L. IWASAKI (University of Missouri - Kansas City, Kansas City, Missouri, USA)

SCI449 Effects of Warmth on Masticatory Muscle Function. M.-Y. HOU*, R. NÜESCH, L. GALLO, D. ETTLIN (Dept. of Masticatory Disorders, University of Zürich, Zurich, Switzerland)

I450 Interactions Between Jaw and Tongue Movements Influence Motor Cortical Neuroplasticity. T. IIDA*, Y. KOMODA, O. KOMIYAMA, L. BAAD-HANSEN, M. KAWARA, P. SVENSSON (Oral Function and Rehabilitation, Nihon University School of Dentistry at Matsudo, Matsudo, Chiba, Japan)

I451 TMJ Space Deformation During Mastication Related to Bolus Size. A. HUBER, V. COLOMBO, L. GALLO*, J.-Y. LEE (Dept. of Masticatory Disorders, University of Zürich, Zurich, Switzerland)

SCI452 Validity of Self-reported Symptoms Indicative of Temporomandibular Disorders in Adults. A. LÖVGREN*, C. VISSCHER, B. HAGGMAN-HENRIKSON, F. LOBBEZOO, S. MARKLUND, A. WÄNMAN (Department of Clinical Oral Physiology, Umeå University, Umeå, Sweden)

CI453 Reduced Heart-Rate-Variability With Increased Saliva Cortisol in TMD Patients. S. CHINTHAKANAN*, K. LAOSUWAN, P. BOONYAWONG, S. KUMFU, N. CHATTIPAKORN, S. CHATTIPAKORN (Oral biology and Oral diagnostic sciences, Chiang Mai University, Muang, Chiang Mai, Thailand)

I454 Effect of Supervised Exercise on TMD Associated With Generalized Pain. B. HAGGMAN-HENRIKSON*, B. WIESINGER, A. WÄNMAN (Department of Orofacial Pain and Jaw function, Malmö University, Malmö, Sweden)

SCI455 Establishment of Sleep Bruxism Model by Induced Pluripotent Stem Cells. Y. TOZAWA*, S. OKAMOTO, Y. ABE, T. MATSUMOTO, J. TANAKA, Y. YOSHIDA, K. IMAIZUMI, K. MISHIMA, W. AKAMATSU, H. OKANO, K. BABA (Prosthodontics, Showa University, Tokyo, Japan)

SI456 Effect of Daytime EMG Biofeedback Training on Nocturnal Grinding. K. SAITO*, M. SATO, H. OTSUKA, A. WATANABE, M. FUJISAWA, N. TERADA (Department of Restorative & Biomaterials Sciences, Meikai University School of Dentistry, SAKADO, SAITAMA, Japan)

SCI457 TMD Treatments Received by Cases During Eight-Year Follow-Up. F. P. KAPOS*, A. HERRERO BABILONI, L. ZHANG, E. SCHIFFMAN (Div. of TMD and Orofacial Pain, School of Dentistry, University of Minnesota, Minneapolis, Minnesota, USA)

CI458 10-year Longitudinal Follow-up of 2,255 Adolescents Screened for TMD Pain. I.-M. NILSSON*, T. LIST (Center for Oral Rehabilitation, Norrköping, Sweden)

CI459 Pain, Bruxism Report, Anxiety and Depression Associated With an Earthquake. R.E. FRUGONE-ZAMBRA, A. GARY-BUFADEL, J.-S. ANTONIO, V. ZAROR-MARCOS, C.L. GONZALEZ-POBLETE*, A. MANNS (Universidad Finis Terrae, Santiago, Chile)

Oral Medicine & Pathology – Oral Medicine & Pathology V

- C1460** Analysis of the Effect From the Initial Dosage of Glucocorticoids to Oral Pemphigus. Y. DENG*, G.-Y. TANG (The Ninth People's Hospital Affiliated to Medical School of Shanghai Jiaotong University, SHANGHAI, China)
- S1461** RANKL Induces Ubiquitination of Autophagy Protein, Beclin I, and Mediates Osteoclast Differentiation. S. KIM*, A. ARAI, C. LEE, C.-Y. WANG, N.-H. PARK, R. KIM (School of dentistry, UCLA, Los Angeles, California, USA)
- S1462** Role of Rho-GTP/SLP/Smad3 Signaling on the Pathogenesis of TMJ-OA. H. MORI*, T. IZAWA, E. TANAKA (Department of Orthodontics and Dentofacial Orthopedics, Tokushima University Graduate School, Tokushima, Japan)
- I463** Rinsing With Saline Promotes Gingival Fibroblast Wound Healing *in Vitro*. R. AMPORNARAVETH*, N. HUYNH, V. EVERTS, P. PAVASANT (Microbiology Department, Faculty of Dentistry, Chulalongkorn University, Bangkok, Thailand)
- I464** No Association Between Genetic Polymorphisms of Glutathione-related Enzymes (*GSTM1* and *GSTT1*) and Mandibular Prognathism in Korean Population. S.W. KANG*, S.H. NOH, K.A. KIM, K.H. PARK, J. CHO, J.H. CHUNG, Y.G. PARK (Dankook University, Cheonan, Chungnam, Korea (the Republic of))
- I465** Peptide Inhibiting Bone Resorption by Suppressing Osteoclast Differentiation and Activity. S.-K. MIN, H.K. KANG, S.Y. JUNG, D.H. JANG, B.-M. MIN* (Dental Medicine and Life Sciences, Seoul National University Senate, Seoul, Korea)
- S1466** TMJ Condyle Angle Change as Osteoarthritis Progresses. A. STANTON*, P. LEE, L. HOLLENDER (University of Washington School of Dentistry, Seattle, Washington, USA)
- S1467** SIRT6 Negatively Regulated Osteoblastic Apoptosis. T.-Y. WU*, K.-L. HOU, H.-W. WANG, S.-K. LIN (Endodontic, National Taiwan University graduate institute of clinical dentistry, Taipei, Taiwan)
- S1468** The Distribution of Podoplanin in the Tooth and Craniofacial Bone. K. TAKARA*, C. KAJI, Y. HATAKEYAMA, H. KOJIMA, Y. SAWA (Oral Growth and Development, Fukuoka-ken, Fukuoka-si, Japan)
- S1469** Various Expression of p63 in Ameloblastomas. Y.-K. CHUN*, G.-D. KIM, C.-H. LEE (Oral Pathology, College of Dentistry, Cheonan, Korea (the Republic of))
- S1470** A "RDC Criteria" Based Cross Sectional Prospective Study on Temporomandibular Disorder(TMD) Prevalence in Chennai Population. N. SUBRAMANIAM*, G. SHANKAR, A. MUTHUKRISHNAN (oral medicine and radiology, Saveetha Dental College, Chennai, Tamilnadu, India)
- I471** ADAMTS16 β Exacerbates Marfan Syndrome Through the Enhancement of ADAMTS4 Activity. A. ORIMOTO*, M. FUTAGI, M. ISHIKAWA, K. HANDA, M. SAITO (Division of Operative Dentistry, Department of Restorative Dentistry, Tohoku University, Sendai, Japan)
- SC1472** Validity of Brief Pain Inventory Questionnaire in Describing Trigeminal Neuralgia and Temporomandibular Disorder Patients. J. VADIVEL*, C. SUNITHA, A. MUTHUKRISHNAN (Oral Medicine & Radiology, Saveetha Dental College & Hospital, Chennai, Tamil Nadu, India)

Pediatric Oral Health Research – Pediatric Oral Health Research: Restorative Materials, Orthodontics, Caries, Special Populations & Genetics

- I473** Progression of Early Proximal Caries Lesion in Primary Molars After Resin Infiltration: A Randomized Controlled Trial. A. MARIATH, C. SARTI, M. VIZZOTTO, C. BONIFACIO, J. RODRIGUES* (Pediatric Dentistry, Federal University of Rio Grande do Sul, Porto alegre, Brazil)
- SC1474** Preferred Restorative Material by Children – A Randomized Controlled Trial. S. JULIET*, D. GURUNATHAN (Pedodontics, Saveetha dental college and hospital, Chennai, Tamil nadu, India)
- S1475** Association of Obesity and Dental Caries Among Children. V. M.G* (dental, Saveetha dental college, Chennai, Tamil Nadu, India)
- C1476** Comparison of Mineral Trioxide Aggregate and Diluted Formocresol in Pulpotomized Human Primary Molars. J.-C. HUNG*, Z.-S. HUNG, H.-Y. CHANG, H.-H. CHANG, Y.-L. WANG, Y.-L. LEE (Department of Dentistry, Division of Endodontics, National Taiwan University Hospital, Taipei, Taiwan)
- C1477** Perioperative Oral Bacterial Population in Patients Undergoing Hematopoietic Cell Transplantation. K. HIRANO*, Y. TSUNODA, Y. TAKASHIMA, M. NAKANO (pediatric dentistry, Okayama University Graduate School of Medicine, Dentistry, and Pharmaceutical Sciences., Okayama, Japan)
- SC1478** Correlation Between Chemotherapy for Childhood Cancer and Dental Developmental Defects. Y. TSUNODA*, K. HIRANO, Y. TAKASHIMA, R. OKAWA, K. NAKANO, M. NAKANO (Department of Pediatric Dentistry, Okayama University Graduate School of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama, Japan)
- SC1479** Dental Anomalies Among Six-year-Old Norwegian Children With Cleft Lip and Palate. P. SÆLE, E. ØSTHUS, S. ÅDALEN, E. NASIR, M. SHARAFELDIN MUSTAFA* (Oral Health Centre of Expertise in Western Norway, Bergen, Norway)
- SC1480** Oral Health Characteristics and Treatment of Children With Special Needs. T. LIGALI*, F. OREDUGBA, O. ORENUGA, C. NZOMIWU, A. ADENAIKE, A. OLUWO, O. AYEDUN (Child dental health, Lagos University Teaching Hospital, Idi-Araba, Lagos, Nigeria)
- S1481** Dentition Status, Treatment Needs and Oral Health Care of Disabled Children in Shaanxi, China. N. DONG*, J. RUAN (Stomatology Hospital, Xi'an Jiaotong University, Xi'an, China)
- I482** Salivary IgA Concentrations in Children With Down Syndrome. D. COATES*, K. BALAJI, T. MILNE, M. CULLINAN, B. DRUMMOND (Sir John Walsh Research Institute, Faculty of Dentistry, University of Otago, New Zealand, Dunedin, New Zealand)
- C1483** Erosive Potential of Fruit Juices in Children. S. BUTHANAHOSUR* (Pedodontics & Preventive Dentistry, Coorg Institute of Dental Sciences, Coorg, India)
- SC1484** The Impact of Tooth Brushing on Enamel Affected by Molar Incisor Hypomineralisation (MIH). M. ALQAHTANI*, S. PAREKH, L. BOZEC (Eastman Dental Institute, University College London, London, United Kingdom)
- I485** Mutational Analysis of *FAM83H* Gene in Autosomal-dominant hypocalcified Amelogenesis Imperfecta. W. WANG*, M. QIN, Y. ZHAO (Pediatric Dentistry, Peking University School and Hospital of Stomatology, Beijing, China)

SC1486 Childhood Obesity and Genetics Affecting Skeletal Maturation and Dental Development. S. KIM, C. ARMBRUSTER, A. VIEIRA*, K. DEELEY, D. STUDEN-PAVLOVICH, A. MODESTO VIEIRA (University of Pittsburgh, Pittsburgh, Pennsylvania, USA)

I487 Oral and Dental Findings as Part of Rare Monogenic Diseases. E. SEVERIN*, A. STAN, C. DRAGOMIR, R. BABOISE (Genetics, Carol Davila university of Medicine and Pharmacy, Bucharest, Romania)

E1488 Microbial Plaque DNA and RNA Acquisition Fidelity in Preschool Children. H. DEJONG, P. BASTA, A. FERREIRA ZANDONA, G. SLADE, C. AGLER, R. KOLLI, M. SIMANCAS-PALLARES, L. ZELDIN, K. DIVARIS* (Pediatric Dentistry, University of North Carolina-Chapel Hill, Chapel Hill, North Carolina, USA)

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Poster Session, Hall B

Periodontal Research-Pathogenesis – Periodontal Research-Pathogenesis: Clinical

SC1489 A Novel Aellovirus in Gingival Tissue Associated With Periodontitis. Y. ZHANG*, F. LI, X. FENG (Shanghai Jiao Tong University, Shanghai, China)

S1490 Platelet Recruitment in Inflamed Gingiva: A Mechanism of Reduced Mean Platelet Volume in Generalized Aggressive Periodontitis. Y. ZHAN*, H. MENG, J. HOU, R. LU, X. WANG (Peking University School and Hospital of Stomatology, Beijing, China)

C1491 Periodontal Health Status of Liver Transplant Candidates. B. DI PROFIO, G. INOUE, V. MARUI, A. TROMBINI, B. DE FRANÇA, K. ORTEGA, M. HOLZHAUSEN, G. ROMITO, C. PANNUTI* (Stomatology, Periodontics, University of São Paulo, São Paulo, São Paulo, Brazil)

S1492 miR-223 and miR-200b Regulate Inflammatory Cytokine Expressions in Inflamed Gingiva. S. MATSUI*, K. NODA, Y. IWAI, M. YAMAZAKI, Y. OGATA (Department of Periodontology, Nihon University School of Dentistry at Matsudo, Chiba, Japan)

SC1493 Quantitative Analysis of EBV DNA and P. Gingivalis Associated With Peri-implantitis. A. KATO*, K. IMAI, K. OCHIAI, Y. OGATA (Department of Periodontology, Nihon University School of Dentistry at Matsudo, Chiba, Japan)

C1494 Periodontalpathogenic Bacteria Load and aMMP-8-level in Patients With Rheumatoid Arthritis. D. ZIEBOLZ*, A. KIRCHNER, J. JÄGER, B. KROHN-GRIMBERGHE, R. HAAK, R. MAUSBERG (Dept. of Cariology, Endodontology and Periodontology, University of Leipzig, Leipzig, Germany)

I495 Notch Participates in TGFβ-induced SOST Expression Under Intermittent Compressive Stress. J. MANOKAWINCHOKE*, P. PAVASANT, T. OSATHANON (Mineralized Tissue Research Unit, Faculty of Dentistry, Chulalongkorn University, Bangkok, Thailand)

S1496 Genome-wide Association Study of Aggressive Periodontitis in a Japanese Population. S. MIYAUCHI*, J. KITAGAKI, M. YAMASHITA, S. YAMADA, M. KITAMURA, S. MURAKAMI (Periodontology, Osaka University Graduate School of dentistry, Suita, Osaka, Japan)

S1497 Reduced Salivary Trappin-2 Levels in Patients With Periodontitis. B. AFACAN*, V. ÖZTÜRK, G. EMINGIL, N. BOSTANCI (Periodontology, Adnan Menderes University, Aydin, Turkey)

C1498 Expression of NOD2 and RIPK2 in Chronic Periodontitis. Y. XIE, J. LIU, X.Y. OUYANG* (Department of Periodontology, Peking University School and Hospital of Stomatology, Beijing, China)

C1499 Inflammatory Response in Pregnant Women With High Risk of Preterm Labor and its Relationship With Periodontal Disease. Pilot Study. F. ESCOBAR-ARREGOCES*, C. LATORRE-URIZA, J. VELOSA-PORRAS, N. ROA-MOLINA, A. RUIZ-MORALES, J. SILVA, E. ARIAS, J. ECHEVERRI (Facultad de Odontología, Centro de Investigaciones CIO, Pontificia Universidad Javeriana, BOGOTÁ, Colombia)

I500 Meta-analysis of Common Interleukin-1-beta Polymorphisms in Aggressive Periodontitis. L. FINOTI, A. MIRHADIZADEH, R. SCAREL-CAMINAGA, M. BENAKANAKERE*, D. KINANE (School of Dental Medicine, University of Pennsylvania, Philadelphia, Pennsylvania, USA)

I501 Expression of Regulatory, Proinflammatory and Autoreactive Lymphoid Markers in Periodontal Disease. M. BLANCO, A. DE SOUSA, M. MEDINA, M.C. QUINTERO, R. ROTONDA, J. VELOSA, M. OLAYA, M. MEJIA, R. DUE—AS, A. RODRÍGUEZ, N. ROA* (Facultad de Odontología, Pontificia Universidad Javeriana, Bogotá, Cundinamarca, Colombia)

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Poster Session, Hall B

Pulp Biology & Regeneration Research – Pulp Biology & Pulp Responses to Injury

SC1502 Experimental Study of Pulp Capping Using Xenogenic Demineralized Dentin Paste. J. PARK*, J.-Y. YUN, Y.-K. KIM, J.-C. PARK, Y.-H. CHOI (Conservative dentistry, Seoul National Univ. Bundang Hospital, Seongnam-si, Gyeonggi-do, Korea (the Republic of))

SE1503 Osteoclasts are Absent in Pulpal and Periapical Inflammatory Lesion. A. SHAH*, M. SONG, Y. CAO, M. KANG, R. KIM (Endodontics, UCLA School of Dentistry, Los Angeles, California, USA)

S1504 Concentration-dependent Bone Regeneration Effect of rhBMP-2 and FGF-2 in Rabbit Calvarial Defect Model. C. ZHANG*, H. CHOI, S. LEE, J. KIM, A. LEE, Y. PARK (Department of Prosthodontics, Yonsei University, SEOUL, Korea (the Republic of))

I505 Excessive Fluoride Induces Endoplasmic Reticulum Stress Response in Human Dental Pulp Cells *in Vitro*. L. LI*, Y. ZHU (Department of General dentistry Shanghai Ninth People's Hospital, Shanghai Jiao Tong university, Shanghai, China)

C1506 Effect of Potassium Oxalate Treatment on Cervical Hypersensitive Dentin. N. CHINAJITPHAN, C. UDOMPATANAKORN, S. APIRATTHARATHAN, O. AJCHARANUKUL*, B. MATTHEWS (Srinakharinwirot University, Bangkok, Thailand)

SC1507 Histological Observations of Healing After Revascularization on Rat Pulpectomy Teeth. H. IINO*, R. YAMADA, K. ARAI, K. KITAJIMA, M. IGARASHI (Advanced Operative Dentistry-Endodontics, The Nippon Dental University Graduate School of Life Dentistry at Niigata, Niigata, Japan)

S1508 Human Dental Pulp Cells Express Peroxisome Proliferator-activated Receptor Delta. C. DE LIMA*, B. AMORIM, F. NEVES, A.C. ACEVEDO (Laboratório de Histopatologia Bucal, Odontologia, Universidade de Brasília, Brasília, Brazil)

- S1509** Effect of Systemic Blood Pressure on the Pulpal Blood Flow in Human Maxillary Anterior Teeth. D. KIM, Y. IL-SANG*, S.-H. PARK (Department of Conservative Dentistry and Oral Science Research Center, Yonsei University College of Dentistry, Seoul, Korea (the Republic of))
- C1510** Effect of Two Dentin Desensitizing Agents on Dentin Disc Permeability. M. KANEHIRA*, H. ISHIIHATA, K. SASAKI, M. SAITO (Division of Operative Dentistry, Department of Restorative Dentistry, Tohoku University Graduate School of Dentistry, Sendai, Japan)
- S1511** Expression of TRPM8 in Freshly Isolated Human Odontoblasts. K. TAZAWA*, H. IKEDA, N. KAWASHIMA, M. OZAWA, H. SUDA, T. OKIJI (Department of Pulp Biology & Endodontics, Tokyo Medical & Dental University, Tokyo, Japan)
- S1512** Effect of TGFbeta1 on Plasminogen Activation System of Pulp Cells. W.C. LIAO*, M.-C. CHANG, P.-S. LIN, Y.-A. HUANG, J.-H. JENG (Graduate Institute of Clinical Dentistry, National Taiwan University Medical College, New Taipei City, Taiwan)
- C1513** Blood-flow Signals Recorded From Dentin With Red and Infrared Light. N. VONGSAVAN*, K. KIJSAMANMITH, B. MATTHEWS (Oral Biology, Mahidol University, Bangkok, Thailand)
- SC1514** Influence of Different Antibiotic Pastes on the Expression of IL-17 And TGF- β in Chronic Periapical Region in an Animal Model. W. EL SHATER*, E. HASSANIEN, K. EL BATOUTY, M. NAGY, R. EL SHATER, K. FAWZY EL-SAYED, M. MEKHEMAR, A.H. HASSANEIN, J. WILTFANG, C. DORFER (Endodontics, Ain Shams University, Cairo, Egypt)

Seq#: 200 Friday, 24 June 2016, 3:30 p.m. – 4:45 p.m.
Poster Session, Hall B

Prosthodontics Research – Endodontic Restorations & CAD/CAM Studies; Studies on Resins in Clinical Dentistry

- SC1515** Three-dimensional Fit Analysis of Provisionals Fabricated by Photopolymer Jetting Technology. H.N. MAI*, D.-H. LEE, J.-H. CHO, K.-B. LEE, C.-H. LEE, S.-A. CHO (Department of Prosthodontics, School of Dentistry, Kyungpook National University, Daegu, Korea (the Republic of))
- C1516** Influence of Immediate Dentin Sealing on Clinical Effect of Indirect Composite Inlays. S. XUE* (Peking University School and Hospital of Stomatology, Beijing, China)
- E1517** Flexural Mechanical Properties of Some Thermoplastic Resins for Flexible Denture. T.-H. YANG, Y.-W. IM, S.-C. KIM, J.-H. LEE, H.-H. LEE* (Dental Biomaterials, Dankook University, Cheonan)
- SE1518** Evaluation of 3D Printed Polylactide Acid(PLA) as an Osseo Conductive Material – An Animal Study. V. GOPINATH*, P. NITTLA, D. NALLASWAMY (saveetha dental college, Chennai, Tamil nadu, India)
- S1519** Effect of Resin Bonded Luting Agents Influencing Marginal Discrepancy in All Ceramic Complete Veneer Crowns – An Invitro Study. A. SATHYAMOORTHY, B. CHARLES*, D. GANAPATHY (Prosthodontics, Saveetha Dental College, Chennai, India)
- C1520** Long-term Evaluation of Bond Strength of CAD/CAM Ceramics to Resin Cement. T. TIAN*, M. BURROW, J.K.-H. TSOI, J. MATINLINNA (Faculty of Dentistry, University of Hong Kong, Hong Kong, Hong Kong)
- SC1521** Microbial Leakage of Interim Post and Core Crown After Fatigue-loading. K. SUWANARPA*, D. SAE-LEE, S. LUENGPAILIN, S. PUASIRI, P. JIRADECHOCHAI, J. SUWANPRATEEB (Prosthodontics, Faculty of Dentistry Khon Kaen University, Khon Kaen, Thailand)

- SC1522** Accuracy of Datasets Obtained From Digital and Conventional Impressions. H. AL-IMAM*, M. GRAM, A. BENETTI, K. GOTFREDSEN (Department of Odontology, University of Copenhagen, Copenhagen, Denmark)
- I523** 3-D Finite Element Analysis of Behavior of Pulpless Teeth Restored With Posts for a 3 Elements Bridge. M. BOLLA*, E. LEFORESTIER, N. BRULAT (Biomaterials, UFR Odontology, NICE, France)
- C1524** Reproducibility of 6 Intraoral Scanners: Sectional Analysis on Complicated Intracoronal Preparations. J.-M. PARK*, S.-J. HEO, J.Y. KOAK, S.-K. KIM (Prosthodontics, Seoul National University Gwanak Dental Hospital, Seoul, Korea (the Republic of))

Seq#: 201 Friday, 24 June 2016, 3:30 p.m. – 4:45 p.m.
Poster Session, Hall B

Salivary Research – Salivary Research IV

- S1525** Impaired Transient-Calcium Signaling and Mitochondrial-Function in Salivary Gland of Obese-Rat. J. ITTICHAICHAROEN*, N. APAJAI, P. TANAJAK, P. SANGUANMOO, N. CHATTIPAKORN, S. CHATTIPAKORN (Oral Biology and Oral Diagnostic Sciences, Faculty of Dentistry, Chiang Mai University, Muang, Chiang Mai, Thailand)
- S1526** The Role of Bicarbonate Cotransporters in Salivary Glands. E. NAMKOONG*, S. CHOI, K. PARK (School of Dentistry, Seoul National University, Seoul, Korea (the Republic of))
- S1527** Epigenetic Alteration of the Purinergic Receptor in Salivary Glands. S. CHOI*, Y.-H. SHIN, K. PARK (Physiology, Seoul National University, Seoul, Korea (the Republic of))
- S1528** LPA Inhibits Endotoxin-Induced Isc Alternation and Epithelial Barrier Disruption. M. KIM*, Y.-H. SHIN, S. CHOI, E. NAMKOONG, J.Y. BAE, S. LEE, K. PARK (physiology, Seoul National University, Seoul, Korea (the Republic of))
- SC1529** Assessment of Osteopenia in Breast Cancer Patients Using Salivary Biomarkers. M. WANG*, W. LOO, W. TSANG, J. YUEN, L. HAO (West China Stomatology College, Sichuan University, Chengdu, Sichuan, China)
- SE1530** The Impact of Cloves (Kretek) Cigarettes on Salivary Quality. L. HENDARMIN* (Division of Biological Science, Faculty of Medicine and Health Sciences, State Islamic University, Jakarta Selatan, DKI Jakarta, Indonesia)
- S1531** Autonomic Nerves Stimulates AQP5-traffic to Nuclei in Parotid Acinar Cells. A. BRAGIEL*, G. CHO, T. PIECZONKA, M. SHONO, Y. ISHIKAWA (Medical Pharmacology, Tokushima University Graduate School, Tokushima, Japan)
- S1532** Combined Treatment of Y-27632 and Glial Cell Line-derived Neurotrophic Factor can Support Propagation and Stemness Maintenance of SGSCs in Culture. J. MOON*, S. PARK, S. ROH (BK21 PLUS and Dental Research institute, Seoul National University School of Dentistry, Seoul, Korea (the Republic of))
- S1533** Gustatory Recognition Thresholds of the Tongue Under Different Moistening Conditions. S. SKUTNIK*, T. HOSPEL, W. NIEDERMEIER (Prosthetic Dentistry, University of Cologne, Cologne, Germany)
- I534** Salivary Biomarkers in Liver Transplant Recipients. J. HELENIUS-HIETALA*, T. TERVAHARTIALA, E. SAHLBERG, T. SORSA, H. RUOKONEN, L. GRÖNROOS, K. KARI, F. ÅBERG, H. ISONIEMI, J. MEURMAN (Oral and Maxillofacial Diseases, University of Helsinki and Helsinki University Hospital, Helsinki, Finland)

SI535 P2X7 Receptor and NALP3 Inflammasome Activation in Salivary Cancer Cells. J.Y. BAE, C. FENGJIAO*, K. PARK (School of Dentistry, Seoul National University, Seoul, Korea (the Republic of))

I536 Serum Th1/Th2 Cytokines in Primary Sjögren's Syndrome. N. RHODUS*, E. GILLESPIE, A. NAZMUL-HOSSEIN, E. EMAMAIN, K. MOSER (School of Dentistry, University of Minnesota, Minneapolis, Minnesota, USA)

SI537 Role of Enzymatic Biomarkers and Minerals in Periodontitis. A. GANAPATHI*, P. NAGARAJ, K. RAVI KUMAR (Saveetha Dental College, Chennai, Tamil Nadu, India)

SI538 Effect of Radiation Treatment on Human Submandibular Glands. K. NAM*, C. MARUYAMA, B. TRUMP, M. MONROE, O. BAKER (School of Dentistry, University of Utah, Salt Lake City, USA)

SC1539 Role of Saliva and its Components in Denture Stomatitis: A Systematic Review. M.F. KHIYANI*, J. FEINE, J. BARBEAU, W. SIQUEIRA, E. EMAMI (Faculty of Dental Medicine, Université de Montréal, Montreal, Quebec, Canada)

SI540 Diminished [Ca²⁺]_i Increase Induces Salivary Dysfunction in Diabetic Mouse Model. T. MUNEMASA*, T. MUKAIBOU, Y. KONDO, Y. KUSUDA, Y. MIYAGI, S. TSUKA, C. MASAKI, R. HOSOKAWA (Oral Reconstruction and Rehabilitation, Kyusyu Dental University, Kitakyushu City, Fukuoka, Japan)

SI541 Anoctamin6 Facilitate Cl⁻ efflux of Anoctamin I. H.-M. KIM*, J.-H. HAN, S. KIM, J. LEE, F. YU (School of dentistry, Seoul National University, Seoul, Korea (the Republic of))

POSTER CHAIR LISTING

FRIDAY, JUNE 24, 2016

Poster Sessions: 2 p.m. – 3:15 p.m.

Seq#	Group	Poster#	Session Chair
161	BEHSR	1033-1046	Saul Paiva
162	CAR	1047-1064	Pratibha Ramani
163	CAR	1065-1073	
164	CRAN	1074-1084	Juan Palomo
165	DAR	1085-1092	Francisco Groppo
166	DM	1093-1102	Jose Rodrigues
167	DM	1103-1122	
168	DM	1123-1133	Chiayi Shen
169	DM	1134-1137	
170	GOR	1138-1148	Hossein Hessari
171	IMP	1149-1160	Philipp Sahrman
172	MI	1161-1172	
173	MT	1173-1179	Chao Liu
174	OHR	1180-1198	Pier Francesco Porciani
175	OMP	1199-1209	Jayanth Vadivel
176	OMS	1210-1217	Tarek Stanarius
177	PTT	1218-1227	Pradeep Solete
178	PERIO	1228-1240	
179	SAL	1241-1248	Laifa Hendamin
180	SCB	1249-1260	Hu Zhao

Poster Sessions: 3:30 p.m. – 4:45 p.m.

Seq#	Group	Poster#	Session Chair
181	IAHATT	1261-1275	
182	IAHATT	1276-1306	
183	IAHATT	1307-1318	
184	BEHSR	1319-1331	Miguel Simancas Pallares
185	CAR	1332-1344	Ah Hyeon Kim
186	DM	1345-1357	Shu-Fen Chuang
187	DM	1358-1366	
188	DM	1367-1377	
189	DM	1378-1387	
190	DIA	1388-1396	Lakshmi Chandrasekaran
191	EDU	1397-1407	Albert Leung
192	IMP	1408-1428	Young Seok Park
193	MI	1429-1442	Nicholas Heng
194	NPBR	1443-1447	
195	NEU	1448-1459	Estephano Moana-Filho
196	OMP	1460-1472	
197	POHR	1473-1488	Modupe Ashiwaju
198	PERIO	1489-1501	Ahmed Musrati
199	PB	1502-1514	Orapin Horst
200	PROS	1515-1524	Ji-Man Park
201	SAL	1525-1541	Wilhelm Niedermeier

FRIDAY

SATURDAY

Seq#: 202 Saturday, 25 June 2016, 8 a.m. – 9:30 a.m.
Hands-on Workshop, 403

Biom mineralization & Regeneration

Chairpersons: J. Ahn, G. Cha, H. Cho, J. Heo, T. Jeong, H. Kang, D. Kim, H. Kim, M. Kim, T. Kim, Y. Kim, Y. Lee, A. Lopez, J. Oh, Y. Oh, J. Park, J. Shin, Y. Shin, . Son, K. Tae, S. Woo, C. Yoo and S. Yoon

1542 8 a.m. Biom mineralization & Regeneration. S.Y. AN* (Department of Pediatric Dentistry, Wonkwang University, Iksan, Korea (the Republic of))

1543 8:20 a.m. Biom mineralization & Regeneration: SEM Study. J.-S. YOO* (U DENTAL HOSPITAL, Seoul,

1544 8:40 a.m. Regenerative Endodontics. J. JANTARAT* (Department of Operative Dentistry and Endodontics, Mahidol University, Payathai, Thailand)

545 9 a.m. Biom mineralization & Regeneration: Cellular level. R. AROTE* (Seoul National University, Gwanak, Korea (the Republic of))

9:20 a.m. Discussion.

Seq#: 203 Saturday, 25 June 2016, 8 a.m. – 9:30 a.m.
Symposium, Hall E1

Breakthroughs in Postnatal Tooth Root and Cementum Formation

Chairpersons: E. Cho and J. Feng

1546 8 a.m. The Latest Discoveries on Roles of OSX During Tooth Roots. E.-S. CHO* (Laboratory for Craniofacial Biology, Chonbuk National University, Jeonju,

1547 8:25 a.m. The Role of OSX in Root Cementum Formation. J. FENG* (Dept. of Biomedical Sciences, Baylor College of Dentistry, Dallas, Texas, USA)

1548 8:50 a.m. How BSP and Other Matrix Molecules Control Cementogenesis. B. FOSTER* (NIH/NIAMS, Columbus, Ohio, USA)

9:15 a.m. Discussion.

Seq#: 204 Saturday, 25 June 2016, 8 a.m. – 9:30 a.m.
Symposium, 307A

Dental Nanomedicine: Advancing Drug Delivery, Imaging, and Personalized Medicine

Chairperson: D. Ho

1549 8 a.m. Nanodiamond-Drug Hybrids for Enhanced Therapy and Imaging. E. CHOW* (Cancer Science Institute, National University of Singapore, Singapore, Singapore)

1550 8:25 a.m. Advances in Imaging via Novel Nanomedicine Platforms. A. SMITH* (Bioengineering, University of Illinois at Urbana-Champaign, Urbana, Illinois, USA)

1551 8:50 a.m. Personalized and Precision Medicine for All. D. HO* (Oral Biology and Medicine, Department of Bioengineering, University of California - Los Angeles, Los Angeles, California, USA)

9:15 a.m. Discussion.

Seq#: 205 Saturday, 25 June 2016, 8 a.m. – 9:30 a.m.
Symposium, 327A

How Can the DC/TMD Improve Education and Clinical Practice

Chairpersons: M. Koutris and T. List

1552 8 a.m. Orofacial/TMD Pain Education in Asia. J.-W. CHUNG* (Department of Oral Medicine and Oral Diagnosis, School of Dentistry, Seoul National University, Seoul, Korea (the Republic of))

1553 8:25 a.m. DC/TMD in Undergraduate Dental Education. E. EKBERG* (Department of Orofacial Pain and Jaw Function, Malmö University, Malmö, Sweden)

1554 8:50 a.m. DC/TMD in Postgraduate Dental Education. M. KOUTRIS* (Oral Kinesiology, Academic Centre for Dentistry Amsterdam (ACTA), Amsterdam, Netherlands)

9:15 a.m. Discussion.

Seq#: 206 Saturday, 25 June 2016, 8 a.m. – 9:30 a.m.
Symposium, Hall E3

Important Factors for Odontoblast Differentiation and Dentin Pulp Regeneration

Chairperson: Y. Hwang

1555 8 a.m. Dentin and Bone Formation via Epithelial-mesenchymal Interaction. H.-W. CHOUNG* (Seoul National University, Seoul, Korea (the Republic of))

1556 8:20 a.m. Potential of Carbon-based Materials for Regenerative Endodontics. V. ROSA* (Faculty of Dentistry - Oral Sciences, National University of Singapore, Singapore, Singapore)

1557 8:40 a.m. Candidate for the Odontoblastic Differentiation of Dental Pulp Cells. Y.-C. HWANG* (School of Dentistry, Chonnam National University, Gwangju, Korea (the Republic of))

1558 9 a.m. Effects of Various Crosslinking Agents on Proliferation and Differentiation of Dental Pulp Cells Cultured in Collagen Scaffold. K.-S. MIN* (Chonbuk National University, Jeonju, Korea (the Republic of))

9:20 a.m. Discussion.

Seq#: 207 Saturday, 25 June 2016, 8 a.m. – 9:30 a.m.
Symposium, Hall E5

New Trends in Optical Technology Applied in Dentistry

Chairperson: V. Salvador Bagnato

1559 8 a.m. Optical Diagnosis and Its Application in Dentistry. S. PRATAVIEIRA* (Department of Physics and Materials Science, University of Sao Paulo - USP, Physics Institute of Sao Carlos - IFSC, Sao Carlos, Sao Paulo, Brazil)

1560 8:30 a.m. Photo-activation of Dental Materials: New Perspectives. A. DE SOUZA RASTELLI* (Restorative Dentistry, Univ. Estadual Paulista - UNESP, Araraquara School of Dentistry, Araraquara, Sao Paulo, Brazil)

1561 CANCELED
9 a.m. Discussion.

Seq#: 208 Saturday, 25 June 2016, 8 a.m. – 9:30 a.m.
Symposium, 401

Retention of Teeth, Nutrition Status and Oral Health Related Quality of Life

Chairpersons: G. McKenna and H. Tan

I562 8 a.m. Retention of Teeth and Oral Health Related Quality of Life. H. TAN* (ARCPOH, The University of Adelaide, Adelaide, South Australia, Australia)

I563 8:20 a.m. Quality of Life Gain With a Shortened Dental Arch. F. ALLEN* (Restorative Dentistry, National University of Ireland - Cork, Cork, Ireland)

I564 8:40 a.m. Retention of Teeth and Nutritional Status in Later Life. P. MOYNIHAN* (Centre for Oral Health Research, Newcastle University, Newcastle Upon Tyne, United Kingdom)

I565 9 a.m. Trajectories in Oral Health and Tooth Loss. R. WASSALL* (Newcastle University, Newcastle, United Kingdom)
9:20 a.m. Discussion.

Seq#: 209 Saturday, 25 June 2016, 8 a.m. – 9:30 a.m.
Symposium, Hall E2

Orofacial Pain: From the Bench to Bed Side

Chairpersons: A. Kulkarni and S. Oh

I566 8 a.m. Cellular and Molecular Mechanisms of Tooth Pain. S.B. OH* (Department of Physiology, School of Dentistry, Seoul National University, Seoul, Korea (the Democratic People's Republic of))

I567 8:20 a.m. Peripheral Mechanisms Underlying Extraterritorial Orofacial Pain. M. SHINODA* (Department of Physiology, Nihon University School of Dentistry, Tokyo, Japan)

I568 8:40 a.m. The Roles of TRPV1 and TRPA1 in Craniofacial Muscle Pain. M.-K. CHUNG* (Neural and Pain Sciences, University of Maryland School of Dentistry, Baltimore, Maryland, USA)

I569 9 a.m. Insights Into Role of Cdk5 in Orofacial Pain. A. KULKARNI* (Chief, Functional Genomics Section, National Institute of Dental and Craniofacial Research, NIH, Bethesda, Maryland, USA)
9:20 a.m. Discussion.

Seq#: 210 Saturday, 25 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 308BC

Behavioral, Epidemiologic, and Health Services Research – Keynote Address; Economic Aspects of Oral Health

Chairpersons: L. Do and N. Johnson

I570 8 a.m. Keynote Address: Incentives and Remuneration Systems in Dental Services. J. GRYTTE* (University of Oslo, Oslo, Norway)

C1571 8:30 a.m. Economic Burden of Oral Disease in China. S. ZHANG*, S. ZHENG, X. LIU, X. WANG (Preventive Dentistry, Peking University School and Hospital of Stomatology, Beijing, China)

I572 8:45 a.m. Factor Structure of the Short-form CPQ11-14. W.M. THOMSON*, L. FOSTER PAGE, P. ROBINSON, L. DO, J. TRAEBERT, B. TURTON, C. MCGRATH, K. BEKES, A. MOHAMED, F. DEL CARMEN AGUILAR-DIAZ, Z. MARSHMAN, P. BENSON, S. BAKER (School of Dentistry, University of Otago, Dunedin, New Zealand)

S1573 9 a.m. Role of Socio-behavioural, Family and Parent Related Factors in Dental Caries of Children. S. TADAKAMADLA*, J. KROON, R. LALLOO, M. ZIMMER-GEMBECK, N. JOHNSON (School of Dentistry and Oral Health, Griffith University, Queensland, Helensvale, Queensland, Australia)

S1574 9:15 a.m. Oral Conditions and Health-related Quality of Life: A Systematic Review. D. HAAG*, K. PERES, M. BALASUBRAMANIAN, D. BRENNAN (Australian Research Centre for Population Oral Health, The University of Adelaide, Adelaide, South Australia, Australia)

Seq#: 211 Saturday, 25 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 203

Cariology Research-Microbiological Studies/Biofilm – Cariology Research-Microbiological Studies/Biofilm II

Chairpersons: M. Nascimento and L. Zhan

S1575 8 a.m. Improved High-throughput Sequencing in Understanding Human Oral Microbiome. Y. WANG*, H. CHEN, J. ZHANG, X. CHEN, W. JIANG (Department of Conservative Dentistry and Periodontics, Affiliated Hospital of Stomatology, College of Medicine, Zhejiang University, Hangzhou, China)

E1576 8:15 a.m. Effect of Two Novel Genes on Cariogenicity of *Streptococcus Mutans*. L. ZHAN*, M. DONIA, F. MICHAEL, J. FEATHERSTONE, C. JING, C. LE, A. TAY (Department of Orofacial Sciences, University of California, San Francisco, San Francisco, California, USA)

8:30 a.m. Discussion.

C1577 8:45 a.m. Arginine and Fluoride Affect Caries-related Metabolic Activities of Oral Biofilms. M. NASCIMENTO*, A. ALVAREZ, X. HUANG, C. BROWNGARDT, R. JENKINS, M. SINHORETI, D. DILBONE, V. RICHARDS, R. BURNE (Restorative Dental Sciences, Division of Operative Dentistry, University of Florida, Gainesville, Florida, USA)

S1578 9 a.m. Experimental *E.faecalis* Biofilm Models for Testing Novel Endodontic Treatments. S. BUKHARI*, G. JOUANNY, B. KARABUCAK, M. TROPE, H. KOO (Department of Endodontics, University of Pennsylvania, Philadelphia, Pennsylvania, USA)

9:15 a.m. Discussion.

Seq#: 212 Saturday, 25 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 101

Craniofacial Biology – Craniofacial Development

Chairpersons: B. Amendt and Y. Chai

S1579 8 a.m. Inactivation of *Fam20B* in Dental Epithelium Leads to Supernumerary Incisors. Y. TIAN*, C. LIU, P. MA, X. YANG, D. CRAWFORD, W. YAN, C. QIN, D. BAI, X. WANG (Department of Orthodontics and Paediatric Dentistry, West China School of Stomatology, Sichuan University, Chengdu, Sichuan, China)

I580 8:15 a.m. Loss of Ciliary Protein EVC2 Function Leads to Hypomorphic Enamel Formation Through Affecting Dental Mesenchymal Stem Cell Homeostasis. Y. MISHINA*, H. ZHANG, T. KUNIEDA, Y. MOCHIDA (University of Michigan, Ann Arbor, USA)

S1581 8:30 a.m. A Primary Cilia Transition Zone Complex Coordinates Midfacial Development. S. ABRAMS*, J. REITER (University of California San Francisco, San Francisco, California, USA)

I582 8:45 a.m. MicroRNA Regulation of Craniofacial Development Using New Biotechnology: Inhibition of miR Families in Transgenic Mice and Cells. B. AMENDT*, H. CAO, W. YU, X. LI, N. HOLTON, S. ELIASON (Dept. of Anatomy & Cell Biology, University of Iowa, Iowa City, Iowa, USA)

E1583 9 a.m. Patterning and Morphogenesis of the Soft Palate. Y. CHAI* (Ostrow School of Dentistry, University of Southern California, Los Angeles, California, USA)

C1584 9:15 a.m. Periodontal Mineralization in Experimental Periodontitis. M. YANG, M. BALDWIN, A. SALAMATI, Z.-J. LIU* (Dept. of Orthodontics, University of Washington, Seattle, Washington, USA)

Seq# 213 Saturday, 25 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 102

Dental Materials 5: Biocompatibility and Biologic Effects of Materials – Biological Effects of Materials for Bone Regeneration

Chairpersons: K. Ishikawa and M. Tunalı

I585 8 a.m. Fabrication of Interconnected Porous CaCO₃ From Gypsum. K. ISHIKAWA* (Department of Biomaterials, Kyushu University, Fukuoka, Japan)

C1586 8:15 a.m. A Novel Biomimetic Platelet Concentrate: Hydroxyapatite Platelet-Rich Fibrin (HA-PRF). M. TUNALI*, G. KASNAK, Z. KUCUKODACI, O. ALBAYRAK, H. OZDEMİR, M. AYDINBELGE, S. AKMAN, E. FIRATLI (Periodontology, Gulhane Military Medical Academy Haydarpaşa Training Hospital, Istanbul, Turkey)

8:30 a.m. Discussion.

S1587 8:45 a.m. Effect of Magnesium on Osteogenic Differentiation of Normal Human Osteoblasts. W.-C. LU*, E. PRINGA, L. CHOU (Restorative Sciences and Biomaterials, Boston University Henry M. Goldman School of Dental Medicine, Boston, Massachusetts, USA)

S1588 9 a.m. Three-Dimensionally Enhanced Extra Cellular Matrix Formation for Bone Regeneration. A. KIM*, D. OH (Columbia University, NEW YORK, New York, USA)

9:15 a.m. Discussion.

Seq# 214 Saturday, 25 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 104

Dental Materials 4: Adhesion – Keynote Address; Adhesion in Minimally Invasive Dentistry & Ultrastructural Analysis of the Adhesive Interface

Chairperson: D. Chan

I589 8 a.m. Keynote Address: The Role of Adhesion in Minimally Invasive Dentistry-from Lab to Chair. R. FRANKENBERGER* (University of Marburg, Marburg, Germany)

I590 8:30 a.m. The TEM Observation on the Interfacial Ultrastructure of a Self-etching Adhesive *in Vitro* and *in vivo*. Y. SUYAMA*, T. YAMADA, M. MORIGAMI, S. UNO, J. SUGIZAKI (Department of Dentistry, Toranomon Hospital, Tokyo, Japan)

I591 8:45 a.m. Limited Contribution of Nanolayering to the Durability of Resin-dentin Bonds. F. TIAN*, L. NIU, Q. HUANG, X.-Y. WANG, D. PASHLEY, F. TAY (Department of Cariology and Endodontology, Peking University, School and Hospital of Stomatology, Beijing, China)

C1592 9 a.m. Microscopic Studies of Dentin Adhesive With Novel Gold-Titanate Complexes. H.H. ZHU, S. XIE, J. HAYASHI, A. SADR, D. CHAN* (Restorative Dentistry, University of Washington School of Dentistry, Tokyo, Japan)

SC1593 9:15 a.m. Effect of Primers on μ TBS of Self-Adhesive Cement to Co-Cr. S. CAMPANA*, J.Y. LEE, S.-W. SHIN (Advanced Prosthodontics, Institute for Clinical Dental Research, Korea University Medical Center, Seoul, Korea (the Republic of))

Seq# 215 Saturday, 25 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 105

Dental Materials 7: Color and Appearance (Esthetics) – Keynote Address; Color & Appearance (Esthetics) I

Chairperson: S. Kwon

I594 8 a.m. Keynote Address: Influence of Restorations on the Soft Tissue Esthetics. I. SAILER* (University of Zurich, Geneva, Switzerland)

I595 8:30 a.m. Comparison of Shade Matching by Visual Observation and Computer Colour Matching Based on Improved BPNN Model. Q. LI* (Dept of Prosthodontics, Wuhan University, Wuhan, Hubei, China)

C1596 8:45 a.m. Reproducibility and Accuracy of Measuring Results of VITA Easyshade Advance. W. HANNAK*, H. JAKSTAT, T. KLINKE, K. BÖNING, P. PIREK, F. BEUER (Prosthodontics, Geriatric Dentistry and CMD, Charité University, Berlin, Germany)

I597 9 a.m. Effect of Ozone Gel on Tooth Bleaching. M. OTSUKI*, K. SAWADA, S. ARAKAWA, A. SHIBA, G. SHIOTA, J. TAGAMI (Cariology and Operative Dentistry, Tokyo Medical & Dental University, Tokyo, Japan)

9:15 a.m. Discussion.

Seq# 216 Saturday, 25 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 208

Implantology Research – Basic Science Research on Dental Implantology II

Chairperson: G. Mendonca

SE1598 8 a.m. Boron Nitride Inducing Osteogenic Differentiation of Dental Pulp Stem Cells. N. DUBEY*, A.H. CASTRO NETO, V. ROSA (Faculty of Dentistry - Oral Sciences, National University of Singapore, Singapore, Singapore)

C1599 8:15 a.m. Pre-augmentation Soft Tissue Expansion Improves Bone Formation and Matrix Mineralisation. D. KANER*, W. ARNOLD, K. NAUMOVA, H. TERHEYDEN, A. FRIEDMANN (Periodontology, Witten/Herdecke University, Witten, Germany)

I600 8:30 a.m. Nanoscale Titanium Topography Modulates Osseointegration *in Vivo*. G. MENDONCA*, L. CARVALHO, E. ZUTIN, E. SARTORI, D. MENDONCA, Y. RODARTE CARVALHO, L. MAROTTA REIS DE VASCONCELLOS, L. MEIRELLES, K. JEPSEN, P. KREBSBACH (Biologic and Materials Sciences, University of Michigan, Ann Arbor, USA)

I601 8:45 a.m. Early Osseointegration of Implants With Hydroxyapatite Over Hydrophilic Surface: Torque and Histologic Evaluations in Ovine. J.W. LEE, H.B. WEN*, J. BASSETT (Research, Zimmer Biomet, Palm Beach Gardens, Florida, USA)

SC1602 9 a.m. GreenBone - Plant-derived Nanocoating to Improve Wound Healing and to Prevent From Inflammation. K. GURZAWSKA*, J. FOLKERT, A. MERESTA, T. GABER (Oral Surgery, Birmingham University, Birmingham, United Kingdom)

9:15 a.m. Discussion.

Seq#: 217 Saturday, 25 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 307BC

**Microbiology / Immunology – Microbiology/Immunology-
Oral Biofilms**

Chairpersons: K. Bao and J. Lewis

- SE1603** 8 a.m. Proteomic Interactions of *Anderoglobus Geminatus* Within *In Vitro* Multispecies Biofilms. K. BAO*, G. BELIBASAKIS, N. SELEVSEK, T. THURNHEER, N. BOSTANCI (Oral Microbiology and Immunology, Institute of Oral Biology, Center of Dental Medicine, University of Zurich, Zurich, Switzerland)
- SI604** 8:15 a.m. Prevention of Biofilm Formation of Periodontopathogens using Quorum Sensing Inhibitors. E. RYU*, J. SIM, Y.-K. KO, K.-S. JUNG, B. CHOI (SCHOOL OF DENTISTRY, SEOUL NATIONAL UNIVERSITY, SEOUL, Korea (the Republic of))
- E1605** 8:30 a.m. Antibacterial-activity Potential of Terpenoid Derived From *Myrmecodia* Pendans sp. against *Enterococcus faecalis* ATCC 21912. H. DHARSONO*, D. KURNIA, M.H. SATARI (Conservative Dentistry, Faculty of Dentistry, Universitas Padjadjaran, Bandung, West Java, Indonesia)
- 1606** 8:45 a.m. Targeted Therapy for Periodontal Pathogens. J. LEWIS*, J. HUTCHERSON, K. SINCLAIR, P. HOFFMAN (Philips Institute of OCMB, Virginia Commonwealth University, Richmond, Virginia, USA)
- 1607** 9 a.m. Transcriptomics Analysis of *Enterococcus faecalis* Biofilms Revealed New Regulatory Pathways. C. SENEVIRATNE*, T. SURIYANARAYANAN, S. SWARUP, N. NAGARAJAN, C. ZHANG (National University of Singapore, Singapore, Singapore)
- E1608** 9:15 a.m. *Streptococcus Oralis* Maintains Biofilm Stability in a Supragingival Biofilm-Model. T. THURNHEER*, G. BELIBASAKIS (Oral Microbiology and Immunology, Institute of Oral Biology, Center of Dental Medicine, University of Zurich, Zurich, Switzerland)
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- Seq#: 218 Saturday, 25 June 2016, 8 a.m. – 9:30 a.m.**
Oral Session, 317BC
- Oral Medicine & Pathology – Oral Medicine & Pathology III**
- Chairperson: M. Herzberg**
- C1609** 8 a.m. Cetylpyridinium- and Zinc-chloride Inhibit Bacterial Growth and Malodorous Gas Production. J.-H. KANG*, B. CHOI, J.-W. PARK (Oral Medicine and Oral Diagnosis, School of Dentistry and Dental Research Institute, Seoul National University, Seoul, Korea (the Republic of))
- 1610** 8:15 a.m. Localization of Calprotectin (S100A8/A9) During Oral Epithelial Cell Division. P. ARGYRIS, M. HERZBERG* (Diagnostic and Biological Sciences, University of Minnesota, Minneapolis, Minnesota, USA)
- 8:30 a.m. Discussion.
- C1611** 8:45 a.m. Clinical Efficacy of Mouth-exercising Device Adjunct to Local Ointment, Intra-lesional Injections and Surgical Treatment for Oral Submucous Fibrosis: A Randomized Controlled Trial. V. HAZAREY*, P. PATIL (Oral Pathology, Govt Dental College Nagpur, Nagpur, Maharashtra, India)
- C1612** 9 a.m. Increased Human Beta-defensin-1 Promoted Keratinocyte Differentiation in Oral Lichen Planus. H. DAN*, Y. ZHOU, L. JIANG, X. ZENG, Q. CHEN (Department of Oral Medicine, West China College of Stomatology, Sichuan University, Chengdu, China)
- 9:15 a.m. Discussion.

Seq#: 219 Saturday, 25 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 317A

Oral & Maxillofacial Surgery – Oral & Maxillofacial Surgery II

Chairperson: H. Mahmood

- 1613** 8 a.m. OPT & CBCT: Correlations for IADN Assessment of Wisdom Teeth. H. MAHMOOD*, R. HANDA, M. MOHAMMAD (Birmingham Dental Hospital, Birmingham, United Kingdom)
- SI614** 8:15 a.m. Preclinical Evaluation of Bisphosphonate Administration in Cleft Bone Graft. A. QUACH, J. OLSON, M. HOANG, T. YU, S. HA, C. BHOOT, K. BUI, R. KIM, K. TING, C. HONG* (School of Dentistry, University of California - Los Angeles, Los Angeles, California, USA)
- C1615** 8:30 a.m. Dual Roles of Magnesium Alloys in Bone Fracture Healing. B. COSTELLO*, A. CHAYA, D.-T. CHOU, D. HONG, K. VERDELIS, P. KUMTA, C. SFEIR (Oral & Maxillofacial Surgery, University of Pittsburgh, Pittsburgh, Pennsylvania, USA)
- C1616** 8:45 a.m. Intracellular Signaling Pathways of Osteogenesis Stimulated by Magnesium Ion. S. YOSHIZAWA, A. BROWN, A. BARCHOWSKY, A. CHAYA, C.-C. HUNG, M. SHEHABELDIN, C. SFEIR* (Oral Biology, University of Pittsburgh, Pittsburgh, Pennsylvania, USA)
- C1617** 9 a.m. A Preliminary Study on Individual 3D Printing Titanium Fixation Plates for Orthognathic Surgery. X. WANG* (Oral & Craniomaxillofacial Science, Shanghai Ninth People's Hospital, Shanghai P.R., China)
- 9:15 a.m. Discussion.

Seq#: 220 Saturday, 25 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, Hall E4

**Periodontal Research-Therapy – New Horizons in Bone
Regeneration**

Chairperson: F. Hughes

- 1618** 8 a.m. Effects of Different Collagen Membranes on Osteoblastic Differentiation of Mesenchymal Stem Cells. N. GURAV, P. BUXTON, M. MEHR, C. UERMÖSI, F. HUGHES* (Dental Institute, Kings College London, London, United Kingdom)
- SI619** 8:15 a.m. Neuropeptide Y Enhances the Osteogenic Potential of Periodontal Ligament Stem Cells. L. WINNING, I. EL KARIM, G. LINDEN, S. KILLOUGH, C. IRWIN, F. LUNDY* (Queen's University Belfast, Belfast, United Kingdom)
- SI620** 8:30 a.m. Effect of Particle Size and Glass Composition on Bioactive Glasses. N. HAMED*, R. HILL, D. GILLAM, N. KARPUKHINA (Dental Physical Science Unit, Institute of Dentistry/ Queen Mary University of London, London, United Kingdom)
- SI621** 8:45 a.m. Protein Expression During Early Stages of Bone Regeneration Under Hydrophilic and Hydrophobic Titanium Domes. E. CALCIOLARI*, N. MARDAS, X. DEREKA, A. ANAGNOSTOPOULOS, G. TSANGARIS, P. LELOVAS, N. KOSTOMITSOPOULOS, N. DONOS (Centre for Oral Clinical Research, Queen Mary University of London, London, UK, United Kingdom)
- SI622** 9 a.m. Efficacy of 3D-printed PCL/PLGA/β-TCP Membrane Compared With Collagen Membrane on Guided Bone Regeneration in Beagle Dogs. J.-H. BAE*, Y.-C. JEON, C.-M. JEONG, M.-J. YUN, S.-H. LEE, J.-B. HUH (Prosthodontics, School of Dentistry, Pusan National University, Yangsan, Korea (the Republic of))
- SI623** 9:15 a.m. Role of Autologous Platelet Concentrates (APCs) in Periodontal Bone Regeneration – A Systematic Review. S. RAVI*, S. M (department of periodontics, saveetha dental college, Chennai, Tamilnadu, India)

Seq#: 221 Saturday, 25 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 402

Prosthodontics Research – Lessons From Experience With CAD/CAM Dental Restorations & Treatment

Chairpersons: P. Sohn and T. Tosiriwatanapong

- SE1624** 8 a.m. Comparing Accuracy of Full-arch Digital Impression (Intraoral vs. Extraoral) Using Standardized Metal Bar: Pilot study. P. LEWCHARLERMWONG*, C. ONGTHIEMSAK (Dentistry, Prince of Songkla University, BANGKOK, Thailand)
- E1625** 8:15 a.m. Mechanical Behavior and Crystallographic Study of 3Y-TZP and 5Y-TZP. T. TOSIRIWATANAPONG*, R. GIORDANO, R. POBER (Prosthodontics, Faculty of Dentistry, Thammasat University, Pathumthani, Thailand)
- SC1626** 8:30 a.m. 3D Printed PLA and Bone Regeneration – An Animal Study. D.T. R. S. V. A. K* (Prosthodontics, Saveetha Dental College, CHENNAI, TAMIL NADU, India)
- SE1627** 8:45 a.m. CAD/CAM Milled Dentures: Mechanical Properties, and Biocompatibility Assays. M. SRINIVASAN*, H. GJENGEDAL, M. MOUSSA, M. CATTANI-LORENTE, S. DURUAL, M. SCHIMMEL, F. MÜLLER (Division of Gerodontology & Removable Prosthodontics, University Clinics of Dental Medicine, University of Geneva, GENEVA, GE, Switzerland)
- SC1628** 9 a.m. Fracture Strength of CAD/CAM Lithium Disilicate Inlays and Onlays. P. SOHN*, S. LEE, S. JIN, H.-I. YOON (Prosthodontics, Harvard School of Dental Medicine, Brookline, Massachusetts, USA)
- 9:15 a.m. Discussion.

Seq#: 222 Saturday, 25 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 318C

Pulp Biology & Regeneration Research – Regenerative Endodontics

Chairpersons: I. About and E. Hassanien

- I629** 8 a.m. Pulp Capping Materials and Complement Activation: Implication in Dentin-pulp Regeneration. T. GIRAUD, P. RUFAS, C. JEANNEAU, C. ROMBOULTS, P. LAURENT, J. DEJOU, I. ABOUT* (Aix-Marseille Université, Faculté d'Odontologie, Marseille, France)
- SI630** 8:15 a.m. Development of Strontium Doped Mesoporous Bioactive Glass Nanoparticle for Dentin Regeneration. J.-H. LEE*, A. EL-FIQLI, H.-H. LEE, H.-W. KIM (Institute of Tissue Regeneration Engineering (ITREN), Seoul, Korea (the Republic of))
- SI631** 8:30 a.m. Characterisation of Zinc-releasing Bioglass and the Effect on Human Dental Pulp Stem Cells. M. HUANG*, S. RAWLINSON, R. HILL (Institute of Dentistry, Queen Mary University of London, London, United Kingdom)
- E1632** 8:45 a.m. Revascularization Potentials Following Disinfection of Mature Canals With Necrotic Pulp. E. HASSANIEN*, S. FAHMY, K. EL-SAYED, M. MEKHEMAR, K. EL BATOUTY, M. NAGY, A.H. HASSANEIN, J. WILTFANG, C. DORFER (Endodontics, Faculty of Dentistry, Giza, Dokki, Egypt)
- SE1633** 9 a.m. MMP13/TGF- β Cross-talks in Revascularized Mature Canals Following Different Disinfections. S. FAHMY*, E. HASSANIEN, K. FAWZY EL-SAYED, K. EL BATOUTY, M. NAGY, A.H. HASSANEIN, J. WILTFANG, C. DÖRFER (Endodontics, Faculty of Dentistry, Ain Shams university, Cairo, Egypt)
- I634** 9:15 a.m. Interactions Between Hydrogel Scaffolds, Dental Pulp and Mesenchymal Progenitor Cells. J. COLOMBO, A. MOORE, J. ZHOU, J. HARTGERINK, R. D'SOUZA* (School of Dentistry, University of Utah, Salt Lake City, USA)

Seq#: 223 Saturday, 25 June 2016, 8 a.m. – 9:30 a.m.
Oral Session, 327B

Stem Cell Biology – Stem Cells & Niche

Chairpersons: J. Mao and L. He

- SI635** 8 a.m. Dental Pulp/Dentin Regeneration by Alx3 via Wnt/ β -catenin Signaling. L. HE*, L. XIANG, M. CHEN, C. ZHOU, P. COELHO, J. LING, J. MAO (Center for Craniofacial Regeneration, Columbia University, New York, New York, USA)
- SI636** 8:15 a.m. Comparative Secretome Analysis of MSCs During Odontogenesis and Osteogenesis. S. YU*, Y. ZHAO, L. GE (Department of Pediatric Dentistry, Peking University School and Hospital of Stomatology, Peking University Health Science Center, Peking University, Beijing, China)
- SI637** 8:30 a.m. The Role of Wnt Signaling in Early Tooth Development. R. KIM*, J. PROCHAZKA, O. KLEIN (Program of Craniofacial Biology, UCSF, San Francisco, California, USA)
- I638** 8:45 a.m. Heterogeneity in Dental Pulp Stem Cells. R. HOWARD-JONES*, M. DUTEIL, R. BROWN, M. WILTSHIRE, R. ERRINGTON, A. SLOAN (Oral and Biomedical Science, Cardiff University, Cardiff, United Kingdom)
- I639** 9 a.m. A WNT Therapeutic to Activate Endogenous Stem Cells for Improved Bone Healing. J. HELMS, B. SALMON, B. LIU, T. CHEN, X. YIN* (Dept. of Plastic & Reconstructive Surgery, Stanford University, Stanford, California, USA)
- 9:15 a.m. Discussion.

Seq#: 224 Saturday, 25 June 2016, 9:45 a.m. – 11 a.m.
Poster Session, Hall B

Cariology Research-Detection, Risk Assessment and Others – Cariology Research-Detection, Risk Assessment & Others II

- SI640** Maternal Influence on Finger Dermatoglyphics in Predicting Susceptibility to Dental Caries – A Descriptive Study. S. CHANDRASEKARAN* (saveetha dental college and hospital, Chennai, Tamil Nadu, India)
- I641** Development of Quantitative Real-Time PCR Primers for Detection of *Streptococcus sobrinus*. J.-K. KOOK*, S.-N. PARK, Y.K. LIM, E. JO (Korean Collection for Oral Microbiology, School of Dentistry, Chosun University, Gwangju, Korea (the Republic of))
- SE1642** Is Abfraction a Mechanism of Non-carious Cervical Lesion?. P.H. POON*, A. MAN, D. DUANGTHIP, C.H. CHU (Faculty of Dentistry, The University of Hong Kong, Hong Kong, SAR, Hong Kong)
- SI643** Use of an Improved Replica Impression Technique to Visualise Dentine Tubule Occlusion *in vivo* and Confirm its Correlation With Pain Score Following Treatment With an Occluding Toothpaste. J. SEONG*, M. DAVIES, N. WEST (Periodontology, University of Bristol, Bristol, United Kingdom)
- CI644** Optimum Diagnostic Tools for Proximal Caries Detection in Modern Dentistry. J. PLIANRUNGSI*, P. KARNASUTA, S. PHROMSIRI, A. LAOTHA, K. RONGPOL, K. BANCHADITHA, N. EKPIYAPORNCHAI, N. CHARNPINO, P. KITTIKUNAPONG (Rangsit University, Pathumthani, Thailand)
- I645** Influences of Hydrogen Sulfide on the Surface Layer of Enamel. T. YAMAGUCHI*, M. HANABUSA, N. HOSOYA (Department of Endodontology, Tsurumi University School of Dental Medicine, Yokohama, Kanagawa, Japan)

**Cariology Research-Microbiological Studies/Biofilm –
Cariology Research-Microbiological Studies/Biofilm IV**

- I646** Single-Cell Force Spectroscopy for Characterizing the Adhesive Interaction of *S. mutans* with a Simulated Dental Materials in Oral Environment. P. ZHANG, L. JIANG, D. WANG, M. CHIANG* (Biosystems and Biomaterials, National Institute of Standards and Technology, Gaithersburg, Maryland, USA)
- S1647** Sequencing Analysis on Plaque Biofilm Microbial Diversity in Children Aged 12 Months and Their Mothers With or Without Dental Caries. C. ZHU*, H. LU, X. FENG (Department of Preventive Dentistry, Ninth People's Hospital, School of Medicine, Shanghai Jiao Tong University, Shanghai, China)
- I648** Small Non-coding RNAs in Acid Stress of *Streptococcus Mutans*. H.-C. LIN*, S.S. LIU, Y. TAO, L.X. YU (Department of Preventive Dentistry, Guanghua School of Stomatology, Sun Yat-sen University, Guangzhou, Guangdong Province, China)
- S1649** The Cytokine Inductions in Glomerular Endothelial Cells With *Porphyromonas gingivalis* Lipopolysaccharide Through TLR2. S. TAKATA*, K. KAJIWARA, Y. HATAKEYAMA, H. ISHIKAWA, Y. SAWA (Oral Growth & Development, Fukuoka Dental College, Fukuoka, Japan)
- I650** Effect of the *luxS* Gene on Biofilm Formation by *Enterococcus faecalis*. Z. HE*, W. ZHOU, Z. HUANG, J. LIANG (Shanghai Research Institute of Stomatology, Shanghai Jiao Tong University School of Medicine, Shanghai Ninth People's Hospital, Shanghai, China)
- I651** Functional Diversity of the Microbial Community in Children With Early Childhood Caries and Without Caries Based on Sole Carbon Source Utilization. Y. ZHAO*, Y. LIU, F. CHEN (2nd Dental Center, Peking University School and Hospital of Stomatology, Beijing, Beijing, China)
- S1652** The Copper Inhibition to *Streptococcus Mutans*-*Veillonella Parvula* Dual Biofilm. Q. DU*, H. WU, K. TIAN (Sichuan provincial people's hospital, Chengdu, Sichuan, China)
- C1653** Metabolomics Study on a Fluoride-resistant Strain of *Streptococcus Mutans* and its Wild-type Strain. L. ZHU* (School of Stomatology, Shanghai Jiaotong University, Shanghai, China)
- E1654** NN2-gene Affects *Streptococcus Mutans*'s Cariogenicity When Co-cultured With *Streptococcus Gordonii*. S. CHEN*, M. DONIA, F. MICHAEL, J. FEATHERSTONE, C. JING, C. LE, L. ZHAN (School and Hospital of Somatology, Fujian Medical University, Fuzhou, Fujian, China)
- C1655** Evaluation of Octenidine as an Antimicrobial in Disinfecting the Root Canal System. An *in Vitro* Microbiological Study. O.S. SHERIFF* (International Medical University, School of Dentistry, Kuala Lumpur, Malaysia)
- SC1656** Comparison of Laser and Ozone Therapy of Root Canals Infected With *Enterococcus Faecalis* Biofilms – *in Vitro* Study. R. PARASURAMAN*, T. THOMAS (Conservative Dentistry and Endodontics, Saveetha Dental College, Salem, Tamilnadu, India)

Craniofacial Biology – Biology of Tooth Movement

- S1657** Alterations of VEGF and CSF-I Expression Following Orthodontic Biophysical Force Loading in Hyperglycemic Diabetic Rats. J.-S. MOON*, Y.-H. CHOI, S.-Y. LEE, J.-H. KANG, D.-W. YANG, S.-H. KIM (Oral Anatomy, Dental School, Chonnam National University, Gwangju, Korea (the Republic of))
- I658** Osteoblast Mechanosensing by Vibration: Cytoskeletal Changes and Signal Transduction. M. CHIBA*, T. OTA, M. YASUDA, H. HAYASHI (Division of Oral Physiology, Department of Oral Function and Morphology, Graduate School of Dentistry, Tohoku University, Sendai, Miyagi, Japan)
- I659** Tensile Force on Human Macrophage Cells Enhances Osteoclastogenesis Through RANKL Induction. C.-T. KAO*, M.Y. SHIE (Chung Shan Medical University, Taichung, Taiwan)
- S1660** Antiosteoclastogenesis Activity of Laser Antagonizing RANKL-induced Osteoclast Differentiation of Murine Macrophages. C.-W. CHAO*, C.-T. KAO, M.Y. SHIE (School of Dentistry, Chung Shan Medical University, Taichung, Taiwan)
- SC1661** Expression of Asporin and *SOST*/Sclerostin in Compressed Periodontal Ligament Cells. M. UEDA*, K. KUROISHI, K. GUNJIGAKE, E. IKEDA, T. KAWAMOTO (Division of Orofacial Functions and Orthodontics, Kyushu Dental University, Fukuoka, Japan)
- SE1662** The Suture Expansion Induced Endochondral Ossification Without Periosteum Presence. W. ZHAO*, Y. LIU, M. WANG (West China Hospital of Stomatology, Sichuan University, Chengdu, Sichuan, China)
- SC1663** Effect of Pulsing Mode of LEDs on Chondrogenic ATDC5 Cells. N. KHAMCHA*, A. KHANTACHAWANA, R. CHINTAVALAKORN, D. SERIWATANACHAI, P. SANTIWONG (Orthodontics, Mahidol university, faculty of Dentistry, Bangkok, Rajthawee, Thailand)
- SC1664** Effect of Different Wavelength of LEDs on Chondrogenic ATDC5 Cells. K. SUBRUNGROJ*, A. KHANTACHAWANA, R. CHINTAVALAKORN, D. SERIWATANACHAI, P. SANTIWONG (Orthodontics, Mahidol university, Bangkok, Thailand)
- E1665** Nuclear Protein HMGB1 Estimation Around Miniscrew Implants During Enmasse Retraction. O. KHARBANDA*, I. CHANDRASEKARAN, R. DUGGAL, R. MOGANTY (Orthodontics, AIIMS, New Delhi, India)
- I666** IL-17 Expression and Its Effect on Osteoclastogenesis Under Mechanical Loading. Y. YANG*, C. LIAO, L. JIN, C. ZHANG (Faculty of Dentistry, The University of Hong Kong)
- C1667** C-shaped Root Canal System in Mandibular Second Molar Evaluated by Cone-beam Computed Tomography. U. ARAYATRAKOOLIKIT*, A. JAINAEN, P. SUTTHIPRAPAPORN, K. ITTIDECHPONG, V. ONLAOR, S. BOON-LONG (Department of Restorative Dentistry, Khon Kaen University, Faculty of Dentistry, Amphur Muang, Khon Kaen, Thailand)
- C1668** Different Appearance of the Mandibular Canal in Individuals With Oligodontia. A. POBIEDZINSKA, M. BAGESUND*, L.-I. NOREVALL (Department of Medicine and Health Sciences, Faculty of Medicine and Health Sciences, Linköping University, Linköping, Sweden)

C1669 A Study on Morphology of Isthmus in Permanent Teeth Roots. T. CHEN*, J. BAI, J. WANG, W. SUN, A. JI (Department of oral emergency, School and Hospital of Stomatology, Peking University, Beijing, China)

SE1670 The Role of Bone Turnover on the Development of Jaw Relationships. D. JAUL*, M. COZIN, B. MENG, A. MANIKKATH, A. JHEON (School of Dentistry, University of California, San Francisco, San Francisco, California, USA)

Seq#: 227 Saturday, 25 June 2016, 9:45 a.m. – 11 a.m.
Poster Session, Hall B

Dental Material 1: Ceramic-based Materials – Glass Ionomer, Calcium Hydroxide & MTA

E1671 Fluoride Release of Restorative Glass Ionomer Cements Modified with Nanocrystals. M.F. DE LIMA NAVARRO*, R. MENEZES-SILVA, L. SHIMOHARA, P.H. FERNANDES, F. PEREIRA, L. WANG, M.A.R. BUZALAF (University of Sao Paulo, Bauru SP, Brazil)

I672 Are Compressive and Flexural Properties of Glass-ionomer Cements Correlated?. M. IRIE*, J. TANAKA, T. MATSUMOTO, Y. MARUO, G. NISHIGAWA, S. MINAGI, K. YOSHIHARA, D. WATTS (Biomaterials, Okayama University, Okayama, Japan)

SC1673 Fabrication and Characterization of Sr-doped Hydroxyapatite for Application on Dental Implant. J.-Y. WANG*, B.-S. LEE (National Taiwan University, Taipei, Taiwan)

SI674 Effect of New Calcium Hydroxide With Silicon-substitute Hydroxyapatite (Si-HA) for Endotoxin Reduction. J. ROH*, K.-R. KIM (Dental Biomaterials and Bioengineering, Yonsei University College of Dentistry, Seoul, Korea (the Republic of))

C1675 MTA Discoloration and Pattern Study Induced by UV Visible Light Source. Y.S. LEE* (Kyung Hee University, SEOUL, Korea (the Republic of))

SE1676 Novel Strontium-substituted Fluorapatite Glass-ceramics for Remineralising Glass Ionomer Cements. T. DUMINIS*, S. SHAHID, R. HILL (Unit of Dental Physical Sciences, Institute of Dentistry, Barts and the London School of Medicine and Dentistry, Queen Mary University of London, London, United Kingdom)

Seq#: 228 Saturday, 25 June 2016, 9:45 a.m. – 11 a.m.
Poster Session, Hall B

Dental Materials 3: Metal-based Materials and Other Materials – Metal-based Materials and Other Materials III

SC1677 Effect of Chlorhexidine Concentration on Precipitate Formation With Sodium Hypochlorite. E. VUN*, V. MARINO, R. CLARKSON, G. ROSSI-FEDELE (School of Dentistry, University of Adelaide, Adelaide, South Australia, Australia)

I678 Surface Characterization of Sulfide-induced Corrosion of Titanium. S. TAKEMOTO*, E. KAWADA (Department of Dental Materials Science, Tokyo Dental College, Chiyoda-ku, Tokyo, Japan)

SI679 Antibacterial Property and Corrosion Resistance of the Ti-12Nb-1Ag Alloy. K.-Y. CHIU*, J.-H. WU, J.-N. WU, C.-Y. CHAO, J.-K. DU (National PingTung University of Science and Technology, PingTung, Taiwan)

SI680 Properties of the Ti-15Ta-15Nb Alloy. H.-E. LEE*, Y.-H. CHANG, C.-Y. CHAO, K.-K. CHEN, J.-K. DU, J.-H. WU (School of Dentistry, Kaohsiung Medical University, Kaohsiung, Taiwan)

SI681 Effects of Copper Addition on the Antibacterial Property of As-cast AISI304SS. K.-K. CHEN*, K.-H. YU, C.-Y. CHAO, Y.-T. JHONG, J.-K. DU (School of Dentistry, Kaohsiung Medical University, Kaohsiung, Taiwan)

SI682 Sintering Time and its Influence on Moldless-Processed Porous Titanium's Properties. W. PRANANINGRUM*, Y. TOMOTAKE, Y. NAITO, K. SEKINE, K. HAMADA, T. ICHIKAWA (Oral and Maxillofacial Prosthodontics and Oral Implantology, Tokushima University, Tokushima, Tokushima, Japan)

SC1683 The Mechanical Properties and Cytotoxicity Effect of the Biodegradable AZ31 Alloy by the Addition of Mn and Gd Elements. S.-Y. KIM*, Y.-S. JANG, J.-H. JI, Y.-K. KIM, T.S. BAE, M.-H. LEE (Dept. of Dental Biomaterials, Institute of Biodegradable material, Institute of Oral Bioscience and BK21 plus project, Jeonju, Deokjin-gu, Korea (the Republic of))

SI684 Effects of Aging-temperature on Volume-magnetic-susceptibility of Au-12Nb and Au-15Nb alloys. S. INUI*, K. HAMADA, E. UYAMA, E. HONDA (Tokushima University, Tokushima, Tokushima, Japan)

C1685 Enhanced Osseointegration of Ti-15Mo Alloy Implant by Thermal Oxidation Treatment: An Experimental Study in Rat Tibia. N. SOMSANITH, J.-E. PARK, J.-B. CHOI, T.S. NARAYANAN, T.S. BAE, M.-H. LEE* (Department of Dental Biomaterials, Institute of Biodegradable Materials, Institute of Oral Bioscience and Brain Korea 21 plus project, School of Dentistry, Chonbuk National University, Jeonju, Korea (the Republic of))

Seq#: 229 Saturday, 25 June 2016, 9:45 a.m. – 11 a.m.
Poster Session, Hall B

Dental Materials 4: Adhesion – Adhesion in Prosthetic Dentistry & Orthodontics

SI686 Adhesion of Zirconia Surface by Conditioner Application to Resin Cement. T. SAWADA*, S. SPINTZYK, C. SCHILLE, E. SCHWEIZER, F. RUPP, T. SHIBATA, T. SAWADA, J. GEIS-GERSTORFER (Section Medical Materials Science & Technology, University Hospital Tübingen, Tübingen, Germany)

I687 Improving Adhesion of Zirconia by Surface Modification. F. YOSHIKAWA*, M. YAMAMOTO, H. NAKAMURA, K. MOTOMURA, T. YOSHIOKA, S. TANAKA (Graduate School of Engineering, Shizuoka University, Shizuoka, Japan)

SI688 Surface Treatments Effect on Bonding of Acrylic Resin to Zirconia. N. AKAZAWA*, H. KOIZUMI, H. MATSUMURA (Department of Fixed Prosthodontics, Nihon University School of Dentistry, Chiyoda-ku, Tokyo, Japan)

C1689 Effect of Different Curing Mode on Self-adhesive Resin Cements to CAD/CAM Restorations. Y. SHIN*, J.-Y. KIM, K.-Y. CHO, B.-D. ROH (Conservative Dentistry, Yonsei University, Seoul,

I690 Characteristics of S-PRG Filler-containing Resin Cement for CAD/CAM Resin Block. N. KITADA*, D. HARA, A. NAGAFUJI, K. SHINNO, T. NAKATSUKA (Research & Development, SHOFU INC., Kyoto, Japan)

SC1691 Bonding of Lithium Disilicate Ceramic With Multi-mode Universal Adhesives. H.-Y. LEE*, H.-H. SON, J. CHANG (School of Dentistry, Seoul National University, Seoul, Korea (the Republic of))

SC1692 The Anti-aging Activity of Silane-containing Universal Adhesives on Lithium-disilicate Bonding. C. YAO, H. YANG, L. ZHOU, Y. WANG, J. YUE, J. GUO, C. HUANG* (School of Stomatology, Wuhan University, Wuhan, China)

- 1693** Influence of Luting Materials on the Retention of Cemented Implant-supported Crowns. A. PIWOWARCZYK*, F. ROTH, V. BAUMANN, C. BAULIG, E. NAUMOVA (University of Witten/Herdecke, Witten, Germany)
- SCI1694** Effect of Different Surface Pretreatments on the Shear Bond Strength of Resin Cements to Titanium. N.H. KIM*, J.E. KIM, Q. SHEN, J.-S. SHIM (Department of prosthodontics, Yonsei University College of Dentistry, Seoul, Korea (the Republic of))
- SEI1695** Effect of Ceramic Thickness on the Resin Cement/Ceramic Bond Strength. Y. KANG*, H.-Y. LEE, J. CHANG, H.-H. SON (School of Dentistry, Seoul National University, Seoul, Jongno-gu, Korea (the Republic of))
- 1696** How to Solve the Bracket Bonding on Zirconia Crown?. J.-W. PARK*, J.Y. LEE (Dept. of Conservative Dentistry, Yonsei University College of Dentistry, Seoul, Korea (the Republic of))
- C1697** The Influence of Adding Modified Zirconium Oxide- titanium Dioxide Nano-particles on Mechanical Properties of Orthodontic Composite. N. FELEMBAN* (Faculty of Dentistry, Taif University, Makkah, Saudi Arabia)
- SCI1698** Evaluation of an Experimental Adhesive Resin for Orthodontic Bonding. B. DURGESH*, M. HASHEM, A. ALKHERAIF, P. VALITTU, J. MATINLINNA (Dental Health Department, Dental Biomaterials Research Chair, College of Applied Medical Sciences, King Saud University, Riyadh, Saudi Arabia)
- 1699** Evaluation of Novel Ion-releasing Orthodontic Adhesive Based on PRG Technology. S. TATEISHI*, A. NAGAFUJI, K. SHINNO, T. NAKATSUKA (Research & Development, SHOFU Inc., Kyoto, Japan)
- 1700** Effects of Surface-Treatment on Adhesion of S-PRG Filler-containing Orthodontic Adhesive. K. SHINNO*, S. TATEISHI, A. NAGAFUJI, T. NAKATSUKA (R&D, SHOFU INC., Kyoto, Japan)
- 1701** Bleaching and etching methods effects on orthodontic brackets' bond strength. H. GORUCU, J. GORUCU*, A.R. YAZICI, A. USUMEZ, O. KARA (School of Dentistry, Department of Restorative Dentistry, Hacettepe University, Ankara, Turkey)
- C1702** A New Emulgel Facilitates Orthodontic Bracket Debonding. R. ALDAUSARI*, M. ALGOTHI, A. RADHWAN, A. BAKRY, M. ABBASSY, A. LINJAWI, A.H. HASSAN (king abdulaziz university, Jeddah, Saudi Arabia)

Seq#: 230 Saturday, 25 June 2016, 9:45 a.m. – 11 a.m.
Poster Session, Hall B

Dental Materials 5: Biocompatibility and Biologic Effects of Materials – Biocompatibility of Dental Biomaterials

- C1703** Cytotoxicity of Bulkfill Composites Depends on the Light-cure Irradiance. A. SCHEDULE*, M. LETTNER, S. VIDEN, A. MORITZ, A. FRANZ, D. WATTS (University Clinic of Dentistry, Medical University of Vienna, Vienna, Austria)
- SCI1704** Biocompatibility of Newly Developed Calcium Phosphate-Based Root Canal Sealers. M. MOUSSA*, R. KHASHABA (Oral pathology, College of Oral&Dental Medicine, Cairo, Egypt)
- 1705** PEG400 Solvent Alters pH in Calcium Hydroxide Endodontic Medicaments. L. WALSH*, B. ATHANASSIADIS (University of Queensland, Brisbane, Queensland, Australia)

- SEI1706** *In Vitro* Assay of Cell Reaction to Poly(Lactic-co-glycolic Acid) Nanoparticles Containing Lovastatin for Application on Pulp Capping. H.-P. TU*, B.-S. LEE, Y.-P. WANG (School of Dentistry, National Taiwan University, Taipei City, Taiwan)
- 1707** Can Hydroxyapatite Nanoparticles Penetrate Into the Oral Mucosa?. R. MIYASAKA*, K. KIKUKAWA, R. HAYMAN (Sangi Company Ltd., Tokyo, Japan)
- 1708** Application of aerogel in dentistry. C. HEGEDUS*, M. SZALOKI, F. KERENYI, I. FABIAN, I. LAZAR (Faculty of Dentistry, University of Debrecen, Debrecen, Hungary)
- E1709** The Influence of Polyaspartic Acid on Collagen-Based Composite Scaffolds. D.-C. CHEN*, B.-G. LIN, C.-Y. WU, S.-L. HUNG (School of Dentistry, National Yang-Ming University, Taipei, Taiwan)
- C1710** Anti-oxidant Effects of *Curcuma domestica* Val and *Curcuma xanthoriza* Roxb. M. S. DJAMIL*, R. AMTHA, A. SABARUDDIN (Dept of Biochemistry - Oral Biology, Trisakti University, Jakarta Barat, Indonesia)
- 1711** Zirconia Particle Addition Improves Mechanical Properties of Calcium Phosphate Ceramic. J. BAE*, Y. IDA, K. SEKINE, F. KAWANO, K. HAMADA (dental biomaterials, Tokushima university, Tokushima, Tokushima, Japan)

Seq#: 231 Saturday, 25 June 2016, 9:45 a.m. – 11 a.m.
Poster Session, Hall B

Geriatric Oral Research – Geriatric Oral Research: Patient Centric Healthcare

- E1712** Teaching With Geriatric Simulation in the Sixth Year Dental Students. P. MAHASANTIPPIYA*, P. SRISILAPANAN, A. NIRUNSITTIRAT, S. VASEENON, S. SITTHIKORN KUNAWAROTE, W. PANYARAK, K. KANLIANG, T. SAWANGPANYANGKURA, B. SIRINIRUND (Oral Biology and Diagnostic Sciences, Chiang Mai University, Chiang mai, Chiang Mai, Thailand)
- S1713** Effectiveness of Oral Health Professional Intervention on the Oral Health of Residents With Dementia in Residential Aged Care Facilities: A Systematic Review. J. MOHAMMADI*, K. FRANKS, S. HINES (Discipline of Oral Health, University of Newcastle, Asquith, New South Wales, Australia)
- C1714** Building Better Oral Health Communities for Older Adults. H. TAN*, K. ROBERTS-THOMSON, A. LEWIS, J. WEEKS (the University of Adelaide, Adelaide, South Australia, Australia)
- 1715** Effectiveness of an Oral Health Intervention for Institutionalized Elderly. U. DEISENHOFER*, D. BAUMGART, T. CABRERA, A. HASSEL, A. ZENTHÖFER, P. RAMMELBERG (Prosthodontics, Heidelberg University Hospital, Heidelberg, Germany)
- C1716** Person-centred Co-ordinated Care for Older People. How is Dentistry Involved?. R. WASSALL*, C. EXLEY, M. STEWART, C. CARROLL (School of Dental Science, Newcastle University, Newcastle upon Tyne, Tyne & Wear, United Kingdom)
- SCI1717** Factors Affecting Older Persons' Ability to Manage Oral Hygiene. I. GRÖNBECK-LINDÉN*, C. HAGGLIN, L. GAHNBERG, P. ANDERSSON (Dept. of Behavioral & Community Dentistry, Institute of Odontology, The Sahlgrenska Academy at University of Gothenburg, Gothenburg, Sweden)
- 1718** The Relationship Between Oral Discomfort and Depression of Elderly People in Korea. J. KIM, Y.-S. KIM, H. LEE, J. HONG, K.-W. CHANG* (Department of Preventive and Community Dentistry, School of Dentistry, Chonbuk National University, Jeonju, Korea (the Republic of))

SC1719 The Relationship Between Oral Torus and Oral Function in a Group of Healthy Male Dentate Subjects. K. KATO*, K. MORITA, Y. OKAZAKI, A. KAWANO, K. DOI, K. TSUGA (Advanced Prosthodontic, Hiroshima University Graduate School of Biomedical and Health Sciences, Hiroshima, Japan)

SI1720 Importance of Occlusal Force for Dietary Intakes in 80-year-old Japanese. C. INOMATA*, K. IKEBE, H. TAKESHITA, Y. MIHARA, K. HATTA, M. FUKUTAKE, K. MATSUDA, T. OGAWA, H. OKUBO, Y. GONDO, K. KAMIDE, Y. MASUI, T. ISHIZAKI, Y. ARAI, Y. MAEDA (Prosthodontics, Gerodontology and Oral Rehabilitation, Osaka University Graduate School of Dentistry, Suita, Osaka, Japan)

I1721 Dental Visit Among the Elderly in Tehran, Iran, Urban-HEART-2 Study. H. HESSARI*, M. ASADI-LARI (Research Center for Caries Prevention, Dental Research Institute, Tehran University of Medical Sciences, Tehran, Tehran, Iran (the Islamic Republic of))

CI1722 Posterior Teeth Occlusion and Functional Dependence Among Japanese Older Adults. K. TAKEUCHI*, M. IZUMI, M. FURUTA, T. TAKESHITA, Y. SHIBATA, S. KAGEYAMA, S. GANAHA, Y. YAMASHITA (Section of Preventive and Public Health Dentistry, Kyushu University Faculty of Dental Science, Fukuoka, Japan)

Seq#: 232 Saturday, 25 June 2016, 9:45 a.m. – 11 a.m.
Poster Session, Hall B

Implantology Research – Implantology Research Conducted on Animals

SI1723 An Evaluation of Bone-filling Materials Using the Calvarial Defect Model in Rodents. S. BLACKHAM*, A. JOY, M. GARCIA, K. ROWLAND (School of Dental Medicine, Southern Illinois University, Alton, Illinois, USA)

I1724 Bis-enoxacin Blocks Alveolar Bone Resorption In Rats With Ovariectomy-induced Osteoporosis. E.-Y. LU, X. ZHANG*, P. SHI, C. ZHU (Ninth People's Hospital, Shanghai Jiao Tong University, Shanghai, Shanghai, China)

CI1725 The Osseointegration of Dental Implant in M. Fascicularis. R. DEWI*, D. INDRIANI (Prosthodontics, Faculty of Dentistry, Universitas Indonesia, Tangerang Selatan, Banten, Indonesia)

SC1726 Effect of Design of Implant Neck on Quantity and Quality of Peri-implant Hard Tissue: An Animal Study. Y. LI*, H. KURITA (Dentistry and Oral Surgery, Shinshu University School of Medicine, Matsumoto, Japan)

SC1727 Equine-Collagen Products for Alveolar Ridge Preservation in the Sheep Model. L. KHIMOVICH*, J. LEICHTER, P. SCHMIDLIN, W. DUNCAN (Discipline of Periodontology, Department of Oral Sciences, Faculty of Dentistry, University of Otago, Dunedin, New Zealand)

Seq#: 233 Saturday, 25 June 2016, 9:45 a.m. – 11 a.m.
Poster Session, Hall B

Microbiology / Immunology – Microbiology/Immunology-Oral Cancer

SE1728 Increased Immunoexpression of Melatonin in Oral Mucosal Tissues of Oral Cancer Patients. V. VICHITRANANDA* (Khon Kaen University, BANGKOK, Thailand)

SI1729 Combined VISTA and CTLA-4 Immune-checkpoint Blockade Enhances Antitumor Immunity. Y. KONDO*, T. OHNO, M. AZUMA (Tokyo Medical and Dental University, Tokyo, Japan)

CI1730 Comparison of Microbial Community of Apical Periodontitis With and Without Sinus Tract. Z. TANG*, J. YIN, Z. QI (Department of Endodontics, 9th People's Hospital, Shanghai Jiao Tong University, School of Medicine, Shanghai, China)

SC1731 CMV,EBV,TT virus in Subgingival and Atheromatous Plaques of Chronic Periodontitis Patients. G. KAARTHIKEYAN*, S. PRIYANKA, N. JAYAKUMAR (periodontics, saveetha dental college, Chennai, Tamilnadu, India)

SC1732 MDSC-associated Oral Immune System Plasticity and ONJ Pathogenesis in Mice. Y. SUN*, K. KAUR, W. MCBRIDE, J. LI, A. JEWETT, I. NISHIMURA (UCLA School of Dentistry, Weintraub Center for Reconstructive Biotechnology, Los Angeles, California, USA)

SI1733 Pathogenic Genes of *Staphylococcus aureus* Isolated From Periodontitis. G.-Y. KIM*, J.K. KIM, Y.K. LEE (Dental Hygiene, College of Health Sciences, Dankook University, Cheonan, Korea (the Republic of))

CI1734 Oral Microbial Colonization in Premature Low Birthweight Infants With or Without Kangaroo Mother Care. Q. ZHOU*, K.D. HENDRICKS-MU—OZ, A. DASANAYAKE, Y. LI (School of Stomatology, Peking University, Beijing, Beijing, China)

CI1735 Expression of DNA Double-strand Repair Proteins in the Carcinogenesis of Oral Leukoplakia. Z. ZHOU*, L. WU, M.-W. ZHU (Shanghai Ninth People's Hospital Affiliated to Shanghai JiaoTong University School of Medicine, Shanghai, China)

SI1736 The Effect of *Streptococcus Salivarius* K12 Against *Prevotella Intermedia* on the Reduction of Oral Malodor. J.-E. MOON*, J.-W. CHO (Department of Oral Health, Graduate School, Dankook University, Cheonan-si, Choongnam-do, Korea (the Republic of))

I1737 Oral Microbiome Shifts in Head and Neck Cancer. F. MOUGEOT*, C. STEVENS, D. MORTON, J. DAVIS, J. NOLL, C. RYBCZYK, R. LALLA, M. BRENNAN, J.-L. MOUGEOT (Oral Medicine, Carolinas Healthcare System, Charlotte, North Carolina, USA)

I1738 Oral Microbiome in Head and Neck Cancer: A Longitudinal Study. J.-L. MOUGEOT*, C. STEVENS, D. MORTON, J. DAVIS, J. NOLL, C. RYBCZYK, R. LALLA, M. BRENNAN, F. MOUGEOT (Oral Medicine, Carolinas Healthcare System, Charlotte, North Carolina, USA)

Seq#: 234 Saturday, 25 June 2016, 9:45 a.m. – 11 a.m.
Poster Session, Hall B

Mineralized Tissue – Bone

SI1739 ATP Concentration Regulates the Stemness and Osteogenic Differentiation of SHEDs. O. TECHATHARATIP*, P. PAVASANT (Pediatric dentistry, Faculty of Dentistry, Chulalongkorn University, Pathumwan, Bangkok, Thailand)

- S1740** DLX3 Mutation Affects Process of Senescence and Osteogenesis of BMSCs. N. ZHAO*, D. HAN, H. LIU, Y. LI, S. WONG, Y. WANG, H. FENG (Department of Prosthodontics, Peking University School and Hospital of Stomatology, Beijing, China)
- S1741** IGFBP-3 Suppress Osteoblast Differentiation Through BMP-2 Signaling. K. EGUCHI*, Y. AKIBA, N. AKIBA, M. NAGASAWA, L. COOPER, K. UOSHIMA (Division of Bio-Prosthodontics, Niigata University, Niigata, Niigata, Japan)
- S1742** Direct Induction of Osteoblast-like Cells From Rat Fibroblasts. Y. SATO*, K. YAMAMOTO, F. OSEKO, T. KISHIDA, O. MAZDA, T. YAMAMOTO, N. KANAMURA (Dental Medicine, Kyoto Prefectural University of Medicine, Kyoto, Japan)
- S1743** P2X7R Inhibits Osteogenic Differentiation of hMOBs via the WNT-signaling Pathway. P. SINDHAVAJIVA*, M. ARKSORNNUKIT, P. PAVASANT (Prosthodontics, Chulalongkorn, Bangkok, Bangkok, Thailand)
- SE1744** Pin1-mediated Modification Prolongs the Nuclear Retention of β -catenin in Wnt3a-induced Osteoblast Differentiation. H.-R. SHIN*, R. ISLAM, W.-J. YOON, Y. CHO, H.-S. BAE, B. KIM, K.M. WOO, J.-H. BAEK, H.-M. RYOO (Department of Molecular Genetics, School of Dentistry and Dental Research Institute, Seoul National University, Seoul 03080, Korea (the Republic of))
- 1745** Serotonin 6 G-protein-coupled Receptor Suppresses Osteoblast-mediated Bone Development and Regeneration. H.-M. YUN*, K.-R. PARK, E.-C. KIM (Department of Oral and Maxillofacial Pathology, Kyung Hee University, Seoul, Korea)
- 1746** A Novel Osteogenic Effect of a HDAC Inhibitor, SAHA, on Bone Regeneration. W.J. JIN*, B.J. KIM, Z.H. LEE (Cell and Developmental Biology, Seoul National University School of Dentistry, Seoul, Korea (the Republic of))
- S1747** Hypoxia-inducible Factor as a Physiological Regulator in Bone Homeostasis. H.-G. YU*, E. KOOK, S. LEE, J.-H. RYU (School of Dentistry, Chonnam National University, Gwangju, Korea (the Republic of))
- S1748** Deletion of BMP Receptor Type IB Decreased Bone Mass Through Compromised Osteoblastic Differentiation of Bone Marrow Mesenchymal Progenitors in Mice. C. SHI, A. IURA, F. LIU, K. LYONS, Y. MISHINA, H. SUN* (Jilin University, Changchun, China)
- 1749** APN Influences Osteoporotic Bone Mass via KDM4B and KDM6B. Y.-W. WU*, T. CHEN, J.J. CHEN, L.-Z. LI, Z.-H. TANG (2nd Dental Center, Peking University School and Hospital of Stomatology, Beijing, China)
- S1750** Role of CBX7 Deficiency in Tooth and Alveolar Bone Organogenesis. Z. ZHOU* (Nanjing Medical University, China, Nanjing, China)
- 1751** Yield Strength of Newly Formed Bone Around Subperiosteal Anchorage Devices. M. UEZONO*, K. TAKAKUDA, T. HIRATSUKA, T. OGASAWARA, M. KIKUCHI, K. HARADA, S. SUZUKI, K. MORIYAMA (Dept. of Maxillofacial Orthognathics, Graduate School of Tokyo Medical and Dental University, Tokyo, Japan)
- 1752** miR-195-5p Regulates Orthodontic Bone Formation by Targeting FGF2 and BMPRIA. M. CHANG, H. LIN, H. FU, J. WANG, G. HAN* (School and Hospital of Stomatology, Wuhan University, Wuhan, Hubei, China)
- S1753** PTHrP(1-36): Differential Regulator of Osteoblast Genes Compared to PTH(1-34). F. RICARTE*, N. PARTRIDGE (Biochemistry and Molecular Pharmacology, NYU School of Medicine, New York, New York, USA)
- C1754** Modulation of Positional Identity in Osteoblasts by Co-cultures. S. PRAJANEH*, A. GRIGORIADIS, M. GHUMAN, F. HUGHES (Periodontology, Faculty of Dentistry, Khon Kaen University, Khon Kaen, Thailand)

- S1755** MicroRNA-302a-3p Regulates RANKL Expression in Human Mandibular-derived Bone Cells. R. IRWANDI*, A. VACHARAKSA (Chulalongkorn University, Bangkok, Thailand)
- S1756** MT3 Regulates RANKL-induced Osteoclastogenesis Through Antioxidative Defense. M.K. KIM*, H.-H. KIM (Department of Cell and Developmental Biology, Seoul National University School of Dentistry, Seoul, Korea (the Republic of))
- S1757** G Alpha 12 Regulates Osteoclastogenesis via Modulating NFATc1 Expression. M.-K. SONG*, H.-H. KIM (Seoul National University, Seoul, Korea (the Republic of))
- S1758** Extracellular S100A4 (Mts-1) Enhances Osteoclastogenesis and Impairs Osteoblast Function in Bone Metastasis and Rheumatoid Arthritis. H. KIM*, H.-H. KIM (Cell and Developmental Biology, Seoul National University School of Dentistry, Seoul, Korea (the Republic of))
- S1759** Effect of Complement C1q on Osteoclast Differentiation. F. AONUMA*, S. TSUKA, C. MASAKI, R. HOSOKAWA, H. TAKEUCHI (Oral Reconstruction and Rehabilitation, Kyushu Dental University, Kitakyushu, Fukuoka, Japan)
- 1760** PCP-Vangl Enhances Osteoclast Function by Promoting Actin Ring Formation. J. YANG*, P. ANDRE, V. KRAM, M. YOUNG, L. YE, Y. YANG (State Key Laboratory of Oral Diseases, West China Hospital of Stomatology, Sichuan University, Chengdu, China)

Seq#: 235 Saturday, 25 June 2016, 9:45 a.m. – 11 a.m.
Poster Session, Hall B

Nutrition – Nutrition Research II

- C1761** Evaluation of Serum Vitamin A in CLP Patients in China. J. ZHANG*, H. ZHENG, S. FENG, X. WANG, J. LIN, F. CHEN (Peking University School and Hospital of Stomatology, Beijing, China)
- S1762** Patients' Compliance With Diet Diaries Issued in Dental Hospital Setting. A. ARHEIAM*, S. BROWN, G. BURNSIDE, S. ALBADRI, S. HIGHAM, R. HARRIS (Department of Health Services Research/ School of Dentistry, Institute of Psychology, Health and Society, University of Liverpool, Liverpool, United Kingdom)
- 1763** Effects of Obesity on Periodontal MicroRNAs Expression in Rats. T. TOMOFUJI*, T. YONEDA, M. KUNITOMO, D. EKUNI, K. IRIE, T. AZUMA, T. MACHIDA, H. MIYAI, M. MORITA (Preventive Dentistry, Okayama University, Okayama, Japan)
- 1764** Nutritional Status Changes in Elderly: Results of a 2-year Study. T. HAMASAKI*, R. SAKAI, M. IWASAKI, S. KAKUTA, I. SOH, A. YOSHIHARA, T. ANSAI, H. MIYAZAKI (Department of Nutrition Faculty of Home Economics, Kyushu Women's University, Kitakyushu, Japan)
- 1765** Differentiated Embryo Chondrocyte 1 (DEC1) is a Novel Negative Regulator of Hepatic Fibroblast Growth Factor 21 (FGF21) in Aging Mice. U. BHAWAL*, K. HIRATSUKA (Department of Biochemistry and Molecular Biology, Nihon University School of Dentistry at Matsudo, Matsudo, Chiba, Japan)
- 1766** Content Analysis of Nutritional Information in Paediatric Oral Health Education Leaflets. A. ARORA*, J. DOAN, J. MARTINEZ, C. PHAN, S. BHOLE (Sydney Dental Hospital and SLHD Oral Health Services, Sydney, New South Wales, Australia)

Seq#: 236 Saturday, 25 June 2016, 9:45 a.m. – 11 a.m.
Poster Session, Hall B

Oral Medicine & Pathology – Oral Medicine & Pathology VI

C1767 The Dentist's Contribution to Diagnosis of Hypertension and Arterial Stiffness. L. NICOLASI*, J. RUDZINSKI, J. SAIEGH, P. LEWIN, A. LENARDUZZI, F. STOLBIZER, P. RODRIGUEZ, M. RUBIO (Buccodental and Pathology, School of Dentistry, University of Buenos Aires, Buenos Aires, Buenos Aires, Argentina)

C1768 Oral Health and Mortality in Patients With Chronic Kidney Disease. H. RUOKONEN*, K. NYLUND, J. FURUHOLM, J. MEURMAN, T. SORSA, K. KOTANIEMI, F. ORTIZ, A.M. HEIKKINEN (Department of Oral and Maxillofacial Diseases, Helsinki University Hospital, Helsinki, Finland)

SE1769 High Frequency of DNA Hypermethylation in Lichen Planus. T. CHUJO*, B. ADHIKARI, T. MORIKAWA, F. HARADA, K. YOSHIDA, J. SATO, M. NISHIMURA, K. MATSUZAKA, T. INOUE, Y. ABIKO (Department of Oral Medicine and Pathology, Health Sciences University of Hokkaido, Ishikari-Tobetsu, Japan)

I770 Caldesmon Expression in Odontogenic Cysts. B. SEO*, M. RAMSAY, S. PARK, M. YAKIN, A. RICH (Sir John Walsh Research Institute, University of Otago, Dunedin 9054, New Zealand)

E1771 The Down Regulation of microRNA-200b Expression in Oral Submucous Fibrosis. Y.C. CHANG*, Y. LIAO, C.-C. YU (College of Oral Medicine, Chung Shan Medical University, Taichung, Taiwan)

S1772 Application of Kvaal's Method for Dental Age Estimation Using CBCT. A. VENUGOPAL*, G. R. T. MAHESWARI (Oral Medicine and Radiology, Saveetha Dental College, Chennai, Tamil Nadu, India)

S1773 Prevalence of Unicystic Ameloblastoma in an Indian Institutional Scenario – A Ten Year Experience With a Follow Up. R. CHELLAMMAL* (saveetha dental college, Chennai, India)

S1774 PREVALENCE OF PULP STONES IN PERIAPICAL RADIOGRAPHS- A RETROSPECTIVE ANALYSIS. S. SANTOSH* (Saveetha Dental college, Chennai, India)

C1775 Odontogenic tumors in Thai patients. V. VIPISMAKUL* (Department of Oral Pathology, School of Dentistry, Chulalongkorn University, Bangkok, Bangkok, Thailand)

Seq#: 237 Saturday, 25 June 2016, 9:45 a.m. – 11 a.m.
Poster Session, Hall B

Oral & Maxillofacial Surgery – Oral & Maxillofacial Surgery IV

S1776 A Dynamic Evaluation of Lavage Efficacy in Temporomandibular Joint Upper Compartment. P. ZHU*, Y. XU, H. LIN, Z. ZHANG (Sun Yat-sen University, Guangzhou, Guangdong, China)

S1777 Novel mice model of orthodontic tooth movement into regenerated tissues. Y. KLEIN*, O. FLEISSIG, A. STABHOLZ, D. POLAK, S. CHAUSHU (Dental School, Faculty of Dental Medicine, Hebrew University-Hadassah School of Dental Medicine, Israel, Jerusalem, Israel)

C1778 A comparative study of histological effect of intralesional technique using Nd:YAG laser and diode laser on oral soft tissue and hepatic tissue: an *in Vitro* study. S. SATTAYUT* (Oral Surgery, Khon Kaen University, Khon Kaen, Thailand)

C1779 Noni Leaf Paste Accelerate Wound Healing by Reduced MDA and Granulation Tissue. I.P. SABIRIN* (Oral Biology, Jenderal Achmad Yani University, Cimahi, West Java, Indonesia)

S1780 A Comparison of Temporomandibular Disorder Management between Tufts and Birmingham. J. HUANG*, B. AHMED, N. MEHTA (University of Birmingham, Leeds, United Kingdom)

S1781 Assessment of Surgical Gloves Integrity in Selected Dental Practices in Riyadh, Saudi Arabia. A. ALDOSARI*, A. ALHEZAM, A. AL-SWUAILEM (King Saud University, Riyadh, Saudi Arabia)

SC1782 Prevalence of Orofacial Defects Due to Familial Aggregation, at Tertiary Care Centre, Chennai – A Cross Sectional Study. S. BASKAR*, D.V. NARAYANAN (Saveetha Dental College, Chennai, India)

SC1783 Oral Cancer Intraoperative Detection by Fluorescent Probe Designed Based on Cell Metabolism. T. SHIMANE*, H. AIZAWA, Y. LI, H. KURITA (AIZAWA Hospital ORAL SURGERY, SHINSHU UNIVERSITY, Matsumoto, Japan)

C1784 Anatomical Guidance in the Lateral Wall of Maxillary Sinus for Sinus Augmentation. S.-K. YU*, H.-J. KIM (Department of Oral Anatomy, College of Dentistry, Chosun University, Gwangju, Korea (the Republic of))

C1785 Morphological Verification and its Clinical Significance on the Attachment of Temporalis Muscle. H.-J. KIM*, S.-K. YU (Department of Oral Anatomy, College of Dentistry, Chosun University, Gwangju, Korea (the Republic of))

C1786 Potentially Radiation-Induced Mouth Sarcomas: A Case Series. C. PROL, L. BARBIER, J. MARTIN, J. ALVAREZ, J. BRUNSO, R. CHERRO, I. ARTEAGOITIA, E. RAMOS, M. FRANCO, L. MARGALLO, G. DÍAZ, J. SANTAMARÍA* (Estomatología I, University of the Basque Country, 48008 Bilbao, Spain, Spain)

SE1787 Dental Injuries in Taekwondo Athletes Practicing in Saudi Arabia. Y. ALJOHANI*, K. ALFAIFI, S. REDWAN, D. SABBAHI, M. ZAHRAN (Faculty of Dentistry, King Abdulaziz University, Jeddah, Saudi Arabia)

I788 The Effect of Plasma Rich in Growth Factors (PRGF®) on the Treatment of Alveolar Osteitis. N. CLAYDON*, E. KING, J. SEONG, M. DAVIES, N. WEST (Periodontology, University of Bristol, Bristol, Bristol, United Kingdom)

Seq#: 238 Saturday, 25 June 2016, 9:45 a.m. – 11 a.m.
Poster Session, Hall B

Pediatric Oral Health Research – Pediatric Oral Health Research: Social & Family Factors, Dental Trauma, Growth & Development & Orthodontics

E1789 Dental Visiting Beliefs and Behaviors of Primary Schoolchildren in Taiwan. C.-Y. LEE*, C.-C. TING, J.-H. WU, K.-T. LEE, H.-S. CHEN, Y.-Y. CHANG (Department of Oral Hygiene, Kaohsiung Medical University, Kaohsiung, Taiwan)

S1790 Involving Children in Oral Health Research: Are We Doing Enough?. A. ALAZMAH*, S. PAREKH, P. ASHLEY (Unit of Paediatric Dentistry, UCL Eastman Dental Institute, London, United Kingdom)

I791 Are Traumatic Dental Injuries Related to Areca Nut Chewing Experience? An Epidemiological Study in 15- to 18-year-old Students in Taiwan. B. HUANG* (School of Dentistry and Health Sciences, Charles Sturt University, Orange, New South Wales, Australia)

E1792 Community Pharmacists' Knowledge of and Attitude to Emergency Management of Tooth Avulsion. M. ASHIWAJU*, O. OLUGBAKE, O. OREMOSU (Faculty of Dentistry, College of Medicine, University of Lagos, Lagos, Nigeria)

S1793 Parental Knowledge Regarding Their Child's Habitual Bruxism – A Pilot Study. V. VINOD RAJAN* (pedodontics, Saveetha dental college, Chennai, India)



- I794** Differences in Contact-Area Between Children From an Urban/Rural Community. A. WINTERGERST*, N. ARIAS (Universidad Nacional Autónoma de México, Mexico City, Mexico)
- C1795** A retrospective analysis of prevalence and characteristics of pre-eruptive intracoronal resorption in the permanent dentition in a disabled pediatric population: A cone beam computed tomographic study. A. SEKERCI, G. OZCAN, M. AYDINBELGE* (Pediatric dentistry, Erciyes University, Kayseri, Kayseri, Turkey)
- I796** Contributory Factors of Mandibular Anterior Crowding in Early Mixed Dentition. T.T.T. WAY*, A. KYAW HTOO, S.S. WIN (Department of Paediatric Dentistry, University of Dental Medicine, Yangon, Mandalay, Thailand)
- S1797** Association Between Index of Orthodontic Treatment Need (IOTN) and Child Oral Health Impact Profile (COHIP) Among 8 to 15 Year-Old Schoolchildren. E. CHOI*, J. LYU, H.-Y. KIM (BK21 PLUS Program in Embodiment: Health-Society Interaction, Department of Public Health Sciences, Graduate School, Korea University, Seoul, Korea, SEOUL, Korea (the Republic of))

Seq#: 239 Saturday, 25 June 2016, 9:45 a.m. – 11 a.m.
Poster Session, Hall B

Periodontal Research-Therapy – Outcome of Initial Periodontal Treatment, Lasers & Photodynamic Therapy

- C1798** Adjunctive Use of Essential Oils following Scaling and Root Planing – Clinical Results. H. JENTSCH*, M. FALLAH AZAD, A. SCHWIERTZ (Periodontology, University Leipzig, Leipzig, Germany)
- I799** Evaluation of New Formulations for Antiseptic/inflammatory Mouthrinses With Reduced Staining. B. SENER*, S. ERNEST, T. ATTIN, H.E. HOLZGANG, P. SCHMIDLIN (Clinic of Preventive Dentistry, Periodontology and Cariology, Center of Dental Medicine, University of Zurich, 8032 Zurich, Switzerland)
- C1800** Impact of Er:YAG Laser Irradiation on the Proliferation of Human Periodontal Ligament Fibroblasts. Z.-X. ZHOU* (Department of Pediatric Dentistry, Peking University School and hospital of Stomatology, Beijing, China)
- C1801** Clinical Outcomes Following Nd:YAG Laser Therapy of Initial Peri-implantitis. J. LIU*, Y. PAN, L. LIN (Periodontics, China Medical University, Shenyang, China)
- C1802** Effect of Photodynamic Therapy Adjunct to Scaling and Root-planing in Periodontitis Patients. A Randomized Split-mouth Clinical Trial. S. PULIKKOTIL JACOB* (Clinical Dentistry, School of Dentistry, International Medical University, Kuala Lumpur, Malaysia)
- C1803** Adjunctive Effect of Photodynamic Therapy in Residual Pockets During SPT?. J. VO, H. CAREY, J. GAO, L. NG, M. D'SOUZA, A. SPAHR* (Department of Periodontics, University of Sydney / Sydney Dental Hospital, Sydney / Surry Hills, New South Wales, Australia)
- I804** Effect of Periodontal Treatment on C-reactive Protein, Glycated Hemoglobin and Lipid Profile in Patients With Coronary Artery Disease: a Randomized Controlled Trial. M. MONTENEGRO, I. RIBEIRO-SANADA, C. KAMPITS, M. FURTADO, C. POLANCZYK, A. HAAS, C. RÖSING* (Periodontology, Federal University of Rio Grande do Sul, Porto Alegre, Brazil)

- C1805** A RETROSPECTIVE STUDY ON PERIODONTAL DISEASE PROGRESSION IN PRIVATE PRACTICE. L. NIBALI*, C. SUN, A. AKCALI, M. HSUAN, Y.-K. TU, N. DONOS (Barts and The London, Centre for Oral Clinical Research, Queen Mary University London, London, United Kingdom)
- C1806** Changes of Surface Hardness and Color on Composite Resin in Alcoholic Beverages: A Pilot Study. J. LEE*, S. HWANG, Y.-J. CHOI, W. KIM, I.-S. YEO (Periodontics, Dankook university college of dentistry jukjeon dental hospital, Seoul, Korea (the Republic of))
- SC1807** Clinical and Microbiological Effects of *Rumex acetosa* L. Containing Mouthrinse. S. NEERING*, S. ADYANI-FARD, A. KLOCKE, U. PETERS, G. LOEHR, J. SCHMUCH, A. HENSEL, T. BEIKLER (Section of Periodontics, Heinrich-Heine-University, Duesseldorf, Germany)
- C1808** Microbiological Dynamics Following Full-mouth Air Polishing in Periodontally Healthy Subjects. B. REINHARDT*, T. FLEMMIG, SH. NEERING, A. KLOCKE, U. PETERS, T. BEIKLER (Periodontology, University of Duesseldorf, Duesseldorf, NRW, Germany)

Seq#: 240 Saturday, 25 June 2016, 9:45 a.m. – 11 a.m.
Poster Session, Hall B

Pharmacology /Therapeutics/Toxicology – Novel Treatments for Oral & Craniofacial Diseases

- I809** Antimicrobial Activity of Melatonin Receptor Agonist Ramelteon Against *Porphyromonas gingivalis*. W. ZHOU*, Z. SONG, J. LIANG, X. ZHANG (Shanghai Research Institute of Stomatology, Shanghai Jiao Tong University School of Medicine, Shanghai Ninth People's Hospital, Shanghai, China)
- SC1810** Effect of Dimethylxaloylglycine-embedded Poly(ϵ -caprolactone) Fiber Meshes on Cutaneous Wound Healing in Diabetic Rats. Q. ZHANG*, J.-H. OH, J.-E. WON, S.-M. KIM, J.-H. BAEK, H.-M. RYOO, K.M. WOO (Seoul National University School of Dentistry, Seoul, Korea (the Republic of))
- I811** A Study of the Cytotoxicity of Cd in Tobacco as a Risk Factor for Periodontal Disease. T. SATO* (College at Tokyo, Nippon Dental University, Tokyo, Japan)
- I812** Influence of E-Smoking Liquids on Human Fibroblasts and Endothelial Cells. B. WILLERSHAUSEN*, B. MAHMOODI, T.G. WOLF, I. WILLERSHAUSEN (Department of Operative Dentistry, University Medical Centre, Johannes Gutenberg University, Mainz, Germany)
- I813** Investigation of the Genotoxic Potential of Zinc-Oxide Based Endodontic Sealers. I. WILLERSHAUSEN*, A. TAUBMANN, J. WEUSMANN, B. KAINA, B. WILLERSHAUSEN (Operative Dentistry, University Medical Centre, Johannes Gutenberg University, Mainz, Germany)
- SC1814** Dentists' Adherence to Antibiotic Prophylaxis Guidelines for Infective Endocarditis. J. CUMMINS*, D. MAHER ALLAN, S. RAIDOO, A. LEE (School of Medicine and Dentistry, James Cook University Cairns, Cairns, Queensland, Australia)
- S1815** Knowledge, Awareness of Application of Stem Cell in Clinical Practice Among Dental Professionals – A Survey. K. SHAH*, H. LALIT KUMAR (Saveetha Dental College, Chennai, Tamilnadu, India)

E1816 HISTOMORPHOMETRICALLY EVALUATION OF THE EFFECT OF TRANSFERRING VEGF INTO PLURONIC POLYMER (TISSUE STRUCTURE) APPLICATION ON BONE FORMATION IN MID-PALATAL SUTURE DURING ORTHODONTIC SUTURAL EXPANSION. A. YAGCI*, A. EKIZER (Orthodontics, Erciyes University, Faculty of Dentistry, Kayseri, Melikgazi, Turkey)

S1817 Polymorphism of Glutathione-S-Transferase (GST), Cytochrome-P450 (CYP), Metallothioneins (MTs) Variants as Modifier Factors of Chronic Health Effects Risk. F. GONZALEZ*, F. DIAZ, L. QUI—ONES (Facultad de Odontologia, Universidad de Cartagena, Cartagena de Indias, Colombia)

SC1818 Comparative Evaluation of Pain Control Using Various Analgesics in Irreversible Pulpitis – A Randomized Double Blind Controlled Clinical Trial. P. SOLETE*, S. RAMESH (Conservative Dentistry and Endodontics, Saveetha Dental College, Chennai, TamilNadu, India)

SE1819 Surface Charge Modification for Efficient Intracellular Delivery of Therapeutic Protein-loaded Fibroin Particle. W.J. KIM*, H.-M. RYOO (Seoul National University, SEOUL, Korea (the Republic of))

Seq#: 241 Saturday, 25 June 2016, 9:45 a.m. – 11 a.m.
Poster Session, Hall B

Prosthodontics Research – Implants in Prosthodontics-Data from Clinical & in-vitro Studies

C1820 Stress Effect of the Number of Implant Support for Mandibular Partial Overdenture Prosthesis. W.-S. OH*, J.-M. PARK (Biologic, Materials and Sciences, University of Michigan, Ann Arbor, USA)

C1821 Production of a Biofunctional Titanium Surface Using Plasma Treatments. V. BARÃO*, T. BELINE, I. MARQUES, A. MATOS, E. OGAWA, A. RICOMINI-FILHO, E. RANGEL, N. DA CRUZ, C. SUKOTJO, M. MATHEW, R. CONSANI, M. MESQUITA (Prosthodontics and Periodontology, University of Campinas (UNICAMP), Piracicaba, SP, Brazil)

S1822 Predicting the Outcomes of Dental Implant Treatment. K. MUKAWA*, D. HIGUCHI, T. MATSUMOTO, M. HARA, S. YOKOYAMA, C. FURUYAMA, K. BABA (Prosthodontics, Showa University, Tokyo, Japan)

C1823 Fracture Strength of Laminate Type Restorations on Severely Angulated Implants. H. BAE*, J.I. PARK, N. CHAIMATTAYOMPOL, D.W. PARK (TUFTS UNIVERSITY SCHOOL OF DENTAL MEDICINE, Boston, Massachusetts, USA)

C1824 Stress Analysis Evaluation of Load Distribution for Implant-retained Mandibular Overdentures. S. AZER*, G. ALTONBARY, C.-M. HAN, D.-G. KIM (College of Dentistry, Ohio State University, Columbus, Ohio, USA)

S1825 Evaluation of Impression Accuracy for Angulated Implants Using Reverse Engineering. K. KANG*, K.-S. LEE, J.Y. LEE, S.-W. SHIN (Institute of Clinical Dental Research, Korea University, Seoul, Korea (the Republic of))

SC1826 A Systematic Review for Treatment Outcomes of Mini-Implant-Retained Mandibular Overdentures. W. LABRIAGA*, J. PARK, J.Y. LEE, S.-W. SHIN (Advanced Prosthodontics, ICDR, Korea University Medical Center, Seoul, Korea (the Republic of))

S1827 Enhanced Osseointegration of Dual TiO₂ Nanotube Implants With Controlled BMP-2 Release. A. LEE*, H. CHOI, J. LEE, C. ZHANG, Y. PARK (Department of Prosthodontics, Yonsei University, SEOUL, Korea (the Republic of))

C1828 Improvements in the Masticatory Function and Satisfaction in Atrophic Edentulous Patients Using Overdentures. F. FAOT*, R. MACHADO, A. BIELEMANN, A. SCHUSTER, G. NASCIMENTO, O. CHAGAS JÚNIOR, A. DEL BEL CURY (Restorative Dentistry, Federal University of Pelotas, Pelotas, Brazil)

Seq#: 242 Saturday, 25 June 2016, 9:45 a.m. – 11 a.m.
Poster Session, Hall B

Pulp Biology & Regeneration Research – Endodontics

C1829 Comparative Fracture-strength Analysis of Curved-roots Instrumented With Single-file Systems. K. J.V*, A. G (Department of conservative dentistry and Endodontics, JKK Nataraja Dental College, Tamilnadu, India, Chennai, India)

SC1830 Is There an Association Between Endodontic Disease and Cardiovascular Disease? A Systematic Review and Meta-analysis. A. CHRISTIAN, M. MACEK, A. EID*, A. FOUAD (University of Maryland, Baltimore, Maryland, USA)

C1831 Novel P3-peptide Enhances Anesthetic Efficacy of Lidocaine and Prevents Hyperalgesia. O. HORST*, X. XIE (AfaSci Research Laboratories, Redwood city, California, USA)

C1832 Calcification of the Molar Root Canals: Prevalence and Influencing Factors. N. KIM*, J. ORANGI, A. ABD-ELMEGUID (Dentistry, University of Alberta, Edmonton, Alberta, Canada)

S1833 Survival of Root-filled Teeth in Relation to Restoration and Tooth-group. V. DAWSON*, T. KVIST, F. FRISK, L. BJØRNDAL, H. FRANSSON, ENDORECO (Dep. of Endodontics, Faculty of Odontology, Malmö University, Malmö, Sweden)

C1834 Quantitative Analysis of Cases Treated in a Postdoctoral Endodontic Program. N. CHUGAL*, D. MARKOVIC (School of Dentistry, University of California - Los Angeles, Los Angeles, California, USA)

C1835 "Surgical-fenestration" and "SealBio" Combined for Management of Periapical Cyst-like Lesions. N. SHAH* (Dentistry, North Delhi Municipal Corporation Medical College, Delhi, India)

SE1836 The comparison sealability of one third root canal obturation using single cone an downpack-backfill technique with polydimethylsiloxane sealer

. S. YULIANDA* (Conservative Dentistry, Universitas Indonesia, DKI Jakarta, Jakarta, Indonesia)

I837 Effectiveness of Single Versus Multiple Visits for Endodontic Treatment of Permanent Teeth: Meta-analysis. T. HORSUWANSAK* (wetchakarunrasm, Bangkok, Thailand)

SE1838 Effect of Grape Seed Extract Solution on Root Canal Dentin Microhardness (*In Vitro*). S. ALINDA*, A. MARGONO, D. ASRIANTI (Conservative Dentistry, Universitas Indonesia, Jakarta, Indonesia)

S1839 Kinetics of Cavitation Bubbles during Diode Laser-Activated Root Canal Irrigation. T. HONGO*, S. WATANABE, A. IDE, K. SATAKE, K. YAO, A. EBHARA, C. KOBAYASHI, T. OKIJI (Department of Pulp Biology and Endodontics, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University, Bunkyo-ku, Tokyo, Japan)

S1840 Efficacy of Plasma-Treated Water in Root Canal Disinfection. K. YAMAMOTO*, T. OHSHIMA, S. IKAWA, K. KITANO, N. MAEDA, N. HOSOYA (Endodontics, Tsurumi University School of Dental Medicine, Yokohama, Kanagawa, Japan)

- C1841** Evaluation of the Biofilm Removal Efficiency by a Multisonic Ultracleaning System and Passive Ultrasonic Irrigation. W.-J. SHON*, P. VANDRANGI, M. KANG (Conservative Dentistry, Seoul National University, Seoul, Korea (the Republic of))
- I842** Demographics of Individuals Extracting Root-filled Teeth in Sweden. H. FRANSSON*, K. LANDT, L. HAGSTAM, V. DAWSON, F. FRISK, L. BJØRNDAL, T. KVIST, ENDORECO (Faculty of Odontology, Malmö University, Malmö, Sweden)

Seq#: 243 Saturday, 25 June 2016, 9:45 a.m. – 11 a.m.
Poster Session, Hall B

Stem Cell Biology – Stem Cell Biology II

- I843** Different Effects of Heterodimeric BMP-2/7 on Human and Murine Cells. X. ZHANG*, S. CHEN, Y. LIU, G. WU, Y. ZHOU (Peking University School and Hospital of Stomatology, Beijing, China)
- SEI844** The Analysis of Distinct Mechanisms for Maintaining Pluripotency by Microarray. D. KIM*, S. ROH (BK21 PLUS and dental research institute, Seoul National University School of dentistry, Seoul, Korea (the Republic of))
- S1845** Role of Sonic Hedgehog Pathway in the Proliferation and Stemness of Murine Skin-derived Precursor Cells. S. PARK*, H. KIM, S. ROH (BK21 PLUS and Dental Research Institute, Seoul National University School of Dentistry, Seoul, Korea (the Republic of))
- SEI846** Induced Reprogramming of Human Dental Pulp Stem Cells by Cell Penetrating Peptide Based-proteins. D.W. LEE*, B.S. JO, J.S. SUH, G.J. YOON, J.H. KIM, Y.S. KIM, Y.S. PARK, J.-Y. LEE, G. LEE, I. JO, C.P. CHUNG, Y.J. PARK (Dentistry, Seoul National University, Seoul, Korea (the Republic of))
- S1847** Roles of Transcriptional Factors Mohawk in Periodontal Ligament. N. KODA*, M. SHINOHARA, R. NAKAMICHI, Y. ITO, S. ICHINOSE, H. ASAHARA, K. MORIYAMA (Dept. of Maxillofacial Orthognathics, Tokyo Medical and Dental University, Bunkyo-district, Tokyo, Japan)
- E1848** Identification of a Novel Periodontal Ligament Stem Cell Marker. D. HASEGAWA*, N. WADA, S. HAMANO, A. TOMOKIYO, S. YOSHIDA, H. MITARAI, M. SONODA, H. SUGII, H. MAEDA (Division of Endodontology, Kyushu University Hospital, Fukuoka, Japan)
- S1849** Sorting of Human Mesenchymal Stem Cells by Microfluidic Chip Filtration. J. PARK*, H. JUNG, M.-S. CHUN, M.-S. CHANG (Department of Oral Anatomy, School of Dentistry, Seoul National University, Seoul, Korea (the Republic of))
- SC1850** Osteogenesis of Adult Mesenchymal Stem Cells was Decreased by Reactive Oxygen Species Under Cyclic Stretch. J. LIN*, J. TAN, Y. LIN (Guanghua School of Stomatology, Sun yat-sen University, Guangzhou, Guangdong, China)
- S1851** Comparison of Microchip Filtration and Fluorescence-activated Cell Sorter for Efficient Sorting of Human Mesenchymal Stem Cells. C.J. SHIM*, H. JUNG, M.-S. CHUN, M.-S. CHANG (Department of Oral Anatomy, School of Dentistry, Seoul National University, Seoul, Korea (the Republic of))
- S1852** The Effect of Fibrin-binding Oligopeptide Derived From Fibronectin on Migration of Periodontal Ligament Cells in an *in Vitro* Wound Healing Model. M. HAN* (Department of periodontology, Seoul national university, Seoul, Korea (the Republic of))

- I853** Expression of Stem Cell Markers in ERM by Epigenetic Agents. K. YOSHIDA*, O. UEHARA, T. MORIKAWA, B. ADHIKARI, F. HARADA, T. CHUJO, R. TAKAI, J. SATO, M. NISHIMURA, Y. ABIKO (Division of Oral Medicine and Pathology, Department of Human Biology and Pathophysiology, School of Dentistry, Health Sciences University of Hokkaido, Ishikari-Tobetsu, Hokkaido, Japan)

- I854** Directed Differentiation of Human Embryonic Stem Cells Into Keratinocyte Progenitors *in Vitro*: An Attempt With Promise of Clinical Use. H. ZHOU* (Department of Oral Medicine, Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, Shanghai, China)

- S1855** Indole-3-Acetic Acid Prevents Hydrogen Peroxide-Induced Toxicity in Human Dental Pulp Stem Cells. K.C. KIM*, D. KIM, H. KIM, S. ROH (BK21 PLUS and Dental Research Institute, Seoul National University School of dentistry, Seoul, Korea (the Republic of))

Seq#: 244 Saturday, 25 June 2016, 11:15 a.m. – 12:30 p.m.
Poster Session, Hall B

Behavioral, Epidemiologic, and Health Services Research – Global Distribution of Caries

- I856** Oral Health Literacy of Elders in Hong Kong. K. LEUNG*, A.C. CHEUNG, S. BRIDGES (Faculty of Dentistry, The University of Hong Kong)
- C1857** Factors Associated With Halitosis in White-collar Employees in Shanghai, China. X. CHEN, Y. ZHANG, Q. GU*, H. LU, X. FENG (School of Stomatology, Shanghai Jiao Tong University, 20th People's Hospital, Shanghai, China)
- SC1858** Subject Characteristics in a Caries Prevention Project for Disadvantaged People. M. NISHI, M. HARDING, M. CRONIN, F. ALLEN* (National University of Singapore, Singapore, Singapore)
- SEI859** Dental Caries in Sudan: A Systematic Review. M. SHUAIB*, N. NURELHUDA (Faculty of Dentistry, University of Khartoum, Khartoum, Sudan)
- S1860** Community Social Capital and Oral Health in Japanese Older People. S. KOYAMA*, J. AIDA, M. SAITO, N. KONDO, Y. SATO, Y. MATSUYAMA, Y. TANI, Y. SASAKI, K. KONDO, T. OJIMA, T. YAMAMOTO, T. TSUBOYA, K. OSAKA (Department of International and Community Oral Health, Tohoku University Graduate School of Dentistry, Sendai, Japan)
- E1861** Tooth Loss and Oral Health-related Quality of Life in a Group of Adult Thai Muslims. S. NAORUNGROJ* (Faculty of Dentistry, Dep # Conservative Dentistry, Prince of Songkla University, Hat Yai, Songkla, Thailand)
- C1862** OHRQoL in Youth With Cleft: Self-report and Proxy Ratings. H. BRODER*, M. WILSON-GENDERSON, L. SISCHO (Cariology and Comprehensive Care, New York University, New York, USA)
- S1863** Stress-related Effects of Trapezius Muscle During Dental Treatment. K. MAIER*, M. CASTEN, W. NIEDERMEIER (Prosthetic Dentistry, University of Cologne, Cologne, NRW, Germany)
- I864** Association of Periodontitis With Subclinical Atherosclerosis Among Korean Elderly Population. H.-D. KIM*, M.-S. SHIN, Y.-B. AHN, B.-Y. CHOI (Department of Preventive and Social Dentistry, School of Dentistry, Seoul National University, Seoul, Korea (the Republic of))

1865 Illness, Seeking Behaviour and Utilization: Oral Health Perspectives in Malaysia. N. CHE SALLEH*, S.L. YAW, N.A. ABDULLAH, K. ABD MUTTALIB, A. MANUAL, J. AB HAMID, S.N.F. ABD RAHMAN, S.T. NASARUDDIN, N. MUHAMMAD HASHIM, A. RASHIDI, S. ABDUL MAJID (Oral Health Division, Ministry of Health Malaysia, Putrajaya, Federal Territory of Putrajaya, Malaysia)

SCI1866 Orthognathic Surgery Patients' Experience – A Grounded Theory Study. N. PAUL*, B. GIBSON, K. SMITH, S. BAKER (School of Clinical Dentistry, University of Sheffield, England, UK)

C1867 Effect of Physical Dental Environment on the Anxiety of New Patients in Waiting Areas of Mall-Based Dental Clinics in Muntinlupa City, Philippines. S.M. SARAPUDDIN, R.A. TEDOR, M.A. MENDOZA* (University of the Philippines Manila, Manila, Philippines)

E1868 Can caries influence the development of psychomotor activities in children?. C.-Y. LIANG, Y.C. LIU, A. TENG* (Center for Osteoimmunology & Biotechnology Res. & College of Dental Medicine, Kaohsiung Medical University & Affiliated Hospital, Kaohsiung City, Taiwan)

Seq#: 245 Saturday, 25 June 2016, 11:15 a.m. – 12:30 p.m.
Poster Session, Hall B

Cariology Research-Erosion – Cariology Research-Erosion II

S1869 Monitoring Early Stage *in-vitro* Erosion Using OCT en-face Image Correlation. A. ADEN*, P. ANDERSON, R. LYNCH, G. BURNETT, P. TOMLINS (Queen Mary University of London, London, United Kingdom)

S1870 Inter-arch Comparison of Intraoral pH and Temperature: A Pilot Study. J.J.E. CHOI*, K. LYONS, M. MCLEAN, J. KIESER, N. WADDELL (Sir John Walsh Research Institute, University of Otago, Dunedin, New Zealand)

1871 Erosive Potential of Acidic Solutions at Varying Concentrations: Analytical Characterization and Enamel Loss. C. TURSSI*, E. LIPORACI, T. MANTILLA, L. VIANNA, F. AMARAL, R. BASTING, F. FRANÇA (Cariology and Restorative Dentistry, São Leopoldo Mandic Institute and Dental Research Center, Campinas, SP, Brazil)

S1872 Erosive Potential of Several Fruit-flavored Liquors in Korea. S.-W. PARK*, S.-K. KIM, E.-H. JUNG, H.-K. KWON, B.-I. KIM (Department of Preventive Dentistry & Public Oral Health, Yonsei University College of Dentistry, Seoul, Korea (the Republic of))

E1873 Socioeconomic Status and Tooth Wear. K. AHMED*, J. WHITTERS, X. JU, C. MURRAY (University of Hong Kong, HONG KONG, Hong Kong)

Seq#: 246 Saturday, 25 June 2016, 11:15 a.m. – 12:30 p.m.
Poster Session, Hall B

Craniofacial Biology – Craniofacial Biology III

S1874 Comparisons of Different Enzymes as Dentinal MMP Mimetic. H. JUNG-PEI*, S.-F. CHUANG, Y.-L. CHEN (Institute of Oral Medicine, National Cheng Kung University, Tainan, Taiwan)

S1875 The Effect on Osteogenesis of Mesenchymal Stem Cell by Diode Laser-treated Human Umbilical Vein Endothelial Cell. Y.T. WU*, C.-T. KAO, M.Y. SHIE (School of Dentistry, Chung Shan Medical University, Taichung, Taiwan)

1876 Wnt Signaling Pathway Regulates Maxillary Development in the Chick Embryo. M. KAWAKAMI*, T. SHIMOMURA, H. OKUDA, K. TATSUMI, S. TAKEMURA, A. WANAKA, T. KIRITA (Oral Maxillofacial Surgery, Nara Medical University, Kashihara, Nara, Japan)

1877 Immunohistochemical Localization of Pax6 During Embryonic Mouse Tooth Development. H. LEI*, H. LIU, Y. DING, L. GE (the 3rd Dental Center, School and Hospital of Stomatology, Peking University, Beijing, China)

SCI1878 Localization, Quantification and Characterization of Palatal Periosteum-Derived Mesenchymal Stem Cells. N. NAUNG*, W. DUNCAN, R. DE SILVA, G. SEYMOUR, D. COATES (Faculty of Dentistry, University of Otago, Dunedin, New Zealand)

SE1879 Role of *Profilin1* in BMP-induced Activities in Skeletal Cells. W. LIN*, Y. EZURA, Y. IZU, K. MORIYAMA, M. NODA (Dept. of Maxillofacial Orthognathics, Tokyo Medical and Dental University, Tokyo, Japan)

E1880 Expression and Localization of Yap and Taz During the Development of Mandibular First Molar in Rats. X. XU, Y. WEN, B. ZHANG, B. SUN* (School of Stomatology, Shandong University, Jinan, China)

S1881 Developmental Roles of Mesenchymal Signaling Molecules in Palate Mucosa Differentiation. S. NEUPANE*, G.-J. GWON, Y. LEE, W.-J. SOHN, J.-Y. KIM (Department of Biochemistry, Kyungpook National University, Daegu, Korea (the Republic of))

S1882 Developmental Function of Grhl3 in Mice Circumvallate Papilla Morphogenesis. N. ADHIKARI*, S. NEUPANE, G.-J. GWON, H.-W. SHIN, H.I. SHIN, Y. LEE, W.-J. SOHN, J.-Y. KIM (Department of Biochemistry, Kyungpook National University, Daegu, Korea (the Republic of))

1883 Hedgehog Signaling Enhances Cementoblast Differentiation. J.-S. MOON, S.-H. KIM, E.J. LEE, M.-S. KIM* (Oral Anatomy, Chonnam National University, Gwangju, Korea (the Republic of))

S1884 Skull and Cerebellar Phenotypes in Mice With Dlx2 Over-expression. J. DAI*, N. OUYANG, X. WANG, G. SHEN (Shanghai Ninth People's Hospital, School of Medicine, Dept. of Oral & Craniomaxillofacial Science, Shanghai Jiao Tong University, Shanghai, China)

SE1885 Lysophosphatidylethanolamine Scyltransferase I Regulates Morphology and Function of P19C6 Cell-derived Neurons. S. TABE*, H. HIKIJI, W. ARIYOSHI, T. OKINAGA, T. NISHIHARA (Division of Infections and Molecular Biology, Department of Health Promotion, Kyushu Dental University, Kitakyushu, Fukuoka, Japan)

C1886 The Phosphorylation of Ser55 is an Essential Component for ENAM Function. W. YAN*, P. MA, Y. TIAN, X. WANG (Endodontics, Nanfang Hospital, Southern Medical University, Guangzhou, China)

1887 Foxq1 Mediates Osteogenesis and Odontogenesis via Wnt/beta-catenin Signaling. L. XIANG*, M. CHEN, L. HE, C. ZHOU, J. ZHENG, B. CAI, J. LING, J. MAO (Sun Yat-sen University, Guanghua School of Stomatology, Hospital of Stomatology, Guangdong Provincial Key Laboratory of Stomatology, Guangzhou, Guangdong, China)

Seq#: 247 Saturday, 25 June 2016, 11:15 a.m. – 12:30 p.m.
Poster Session, Hall B

Dental Materials 2: Polymer-based Materials – Dental Materials: Polymer-based Materials V

- I888** Comparison of flexural strength and elastic modulus of several resin teeth splinting materials. K.-M. CHO*, J.-I. YOO, B. BATBAYAR, J.-W. KIM, S.-H. PARK (Conservative Dentistry, Gangneung-Wonju National University, Gangneung, Gangwon, Korea (the Republic of))
- E1889** Volumetric Shrinkage and Polymerization Shrinkage Stress of Different Bulk-filled Composites. V. SRIMAHACHOTA*, P. YAMAN, J. DENNISON, T. SCOTT (Operative dentistry, Chulalongkorn University, Muang, Nonthaburi, Thailand)
- C1890** Depth-of-Cure of Sealants Polymerized on Tooth Substrate. M. ESTIVO, D. TANTBIROJN*, M. WELLS, A. VERSLUIS (Restorative Dentistry, University of Tennessee Health Science Center, Memphis, Tennessee, USA)
- I891** Tensile Bond Strength of Resin Cements to Hybrid Resin Blocks. T. SUZUKI*, T. YAMAZAKI, J. YAMAGAWA, K. HIRATA, H. KAZAMA (Tokuyama Dental Corporation, Tsukuba-City, Japan)
- I892** Mechanical Improvement of Indirect Composite Restorations Using a Fiber-reinforced-composite. S. SUZUKI* (Clinical and Community Sciences, University of Alabama at Birmingham, Tokyo, Japan)
- I893** Correlation Between Total and Post-gel Shrinkage of Restorative Composites. C. WORLEY, C. VERÍSSIMO, D. TANTBIROJN, C. SOARES, A. VERSLUIS* (University of Tennessee Health Science Center, Memphis, Tennessee, USA)
- I894** Wear Properties of High-density Webby Monomer-containing Flow-type Indirect Composite Resin. S. TAKAHASHI*, H. FUJIMURA, J. UCHIDA, M. TERAMAE, T. NAKATSUKA (SHOFU INC., Kyoto, Japan)
- I895** Long-term Retentive Behavior of Prefabricated and Individually Fabricated Vinylpolysiloxane Attachments *in Vitro*. R. SCHWEYEN, J. SETZ*, C. ARNOLD, T. BENSEL, J. HEY (Prosthodontics, University of Halle, Halle, Germany)
- I896** The Effect of Two Traditional Polyacrylic Acid Conditioner and 2% Chlorhexidine Digluconate on the Cavo-surface Microleakage of GI Restorations. S. MATALON*, D. LUGASSY, M. EGER, P. SEGAL (Tel Aviv University, Tel-Aviv, Israel)
- I897** Physical Property of Force Absorbing Hybrid Ceramic CAD/CAM Disc. T. KIZUKI*, N. KOBAYASHI, M. NAKAYAMA, T. YOSHIKAWA (Technical Dept., GC Dental Products Corp., Kasugai, Aichi, Japan)
- S1898** Wear Characteristics of Resin-based Coating Materials. N. KAWAMURA*, M. IJIMA, K. KAWAGUCHI, S. ALAPATI, W. BRANTLEY, S. ITO, T. MUGURUMA, T. SAITO, I. MIZOGUCHI (Division of Orthodontics and Dentofacial Orthopedics, School of Dentistry, Health Sciences University of Hokkaido, Ishikari-Tobetsu, Hokkaido, Japan)
- I899** Modified Glass Ionomer Cement With "Remove on Demand" Properties: An *in Vitro* Study. S. BISHTI*, T. TUNA, G. AGRAWAL, A. PICH, S. WOLFART (Department of Prosthodontics and Biomaterials, RWTH Aachen University, Aachen, Germany)

- C1900** Ultrasonic Treatment in Ethanol-water Reduce Residual Monomer in Acrylic Resin. C. WIWATWARRAPN*, N. KOBNITHIKULWONG (Prosthodontics, Chulalongkorn University, Bangkok, Thailand)
- SC1901** Addition of Upconversion Phosphors in Resin Cements to Enhance Polymerization. P.-J. CHEN*, S.-F. CHUANG, Y.-C. CHOU, J.-C. LIN (Changhua Christian Hospital, Institution of Dental Department, Changhua, Taiwan)

Seq#: 248 Saturday, 25 June 2016, 11:15 a.m. – 12:30 p.m.
Poster Session, Hall B

Dental Materials 5: Biocompatibility and Biologic Effects of Materials – Dental Materials & Scaffolds for Tissue Regeneration

- I902** Improved Gene Therapy Effect by Aligned Scaffolds for Tissue Engineering. Y. WANG, X. CAI, Y. WANG, S. SHANG*, L. CHENGZHANG (The State Key Laboratory Breeding Base of Basic Science of Stomatology (Hubei-MOST) & Key Laboratory of Oral Biomedicine Ministry of Education, School & Hospital of Stomatology, Wuhan University, Wuhan, China)
- C1903** A New Method to Construct the Complex of hDPCs and PRF. X. HE*, B. XIE, W.X. CHEN (School of Stomatology, Guangxi Medical University, Nanning Guangxi, China)
- S1904** Enhancing BMP-2 Activity With a Zinc-Loaded Calcium Sulphate Scaffold. M. SPATAFORA*, G. CRASTO, M. MANOLSON, S. PEEL (Oral and Maxillofacial Surgery, University of Toronto Faculty of Dentistry, Toronto, Ontario, Canada)
- S1905** Biomimetic Internal Geometry of Scaffolds for Bone Tissue Engineering. W. SHI*, L. CHOU (Wilbraham and Monson Academy, Wilbraham, Massachusetts, USA)
- SC1906** Bone Regeneration With Accelerated Osteogenic Orthodontics (AOO) Using Non Viable Allograft and Viable Pulp Tissue Derived Stem Cell Autograft – A Pilot Study. K. SHANTHASUNDARI*, D.S. CHANDRASHEKAR, B. DWARAKANATH, S. PREETHY, S. ABRAHAM, V. R (Orthodontics, Saveetha Dental College, Chennai, Tamilnadu, India)
- C1907** *In Situ* Forming Chitosan Hydrogel Used as Scaffold Material for Bone Tissue Engineering. F. LI*, Y. DING, Q. XIE (Center of the 3rd clinical, Peking University School and Hospital of Stomatology, Beijing, China)
- S1908** The synergistic effects of traditional Chinese herb in Calcium Silicate/ β -TCP on the osteogenic accelerator *in Vitro*. M.-H. HUANG*, T.-H. HUANG, M.Y. SHIE (Institute of Oral Science, Chung Shan Medical University, Taichung, Taiwan)
- SC1909** Promotion of Supra-Alveolar Osteogenesis Using A Novel Gelatin-HA/ β -TCP Scaffold Carrying BMP-2. H.-C. CHANG*, C. YANG, F.-H. LIN, P.-C. CHANG (Graduate Institute of Clinical Dentistry, National Taiwan University, Taipei, Taiwan)
- S1910** Electrospun Fibrous Scaffolds With Fe-HA Induce Osteogenic Differentiation of MSCs. Y. YU*, S. REN, L. MIAO, W. SUN (Nanjing Stomatological Hospital, Medical School of Nanjing University, Nanjing, China)
- SE1911** Enhanced Biocompatibility and Bone Regeneration of Newly Developed Hyaluronic Acid and Carboxymethyl Cellulose Hydrogel Reinforced Three-layer Poly (Lactide-co-glycolide) Membrane. Y.K. KIM*, J.-Y. PARK, J.-K. CHA, J.-S. LEE, I. NOH, U.-W. JUNG, S.-H. CHOI (Periodontology, Yonsei University of College of Dentistry, Seoul, Korea (the Republic of))
- I912** Ectopic Osteogenesis of Stromal Cell-derived Factor 1 and Simvastatin-loaded Collagen Scaffold *in vivo*. M. OU* (The Third Dental Center, Peking University School and Hospital of Stomatology, Peking University, Beijing, China)

S1913 Behavior of Osteoblast-like Cells on a β -tricalcium Phosphate Synthetic Scaffold Coated With Calcium Phosphate and Magnesium. H.J. LEE*, Y.-J. KIM, H.-J. CHUNG (Department of Periodontology, School of Dentistry, Chonnam National University, Gwangju, Korea (the Republic of))

SC1914 Oyster Shell Xenograft as Grafting Material After Tooth Extraction. A.B. ROBLES*, T.I. SANCHEZ, J.V. DEL ROSARIO, R.A. AQUINO, M.A. LIM, B. SAEED, J. SOTELLO, J. FERNANDEZ, N.R. ESPENILLA, P.S. MAJADAS (Centro Escolar University, Quezon City, Metro Manila, Philippines)

E1915 FGF-2 and BMP-2 Similarly Accelerate Bone Regeneration With Different Mechanisms. M. DU*, P. YANG (Shandong University, Jinan, Shandong Province, China)

S1916 Comparative Evaluation of PLLA Membrane and Collagen Membrane for Biocompatible Degradation in Rat Back Model. Y. AN*, Y.K. KIM, J.-Y. PARK, J.-K. CHA, J.-H. LEE, J.-S. LEE, U.-W. JUNG, S.-H. CHOI (Periodontology, Research Institute for Periodontal Regeneration, Yonsei University College of Dentistry, Seoul, Korea (the Republic of))

Seq#: 249 Saturday, 25 June 2016, 11:15 a.m. – 12:30 p.m.
Poster Session, Hall B

**Dental Materials 6: Instruments and Equipment –
Endodontic Instruments & Lasers**

I917 Effect of Rotary-systems on Stress-distribution in Roots With Oval-shaped Canals. R. EKEN, O. SEN, G. ESKITASCIOGLU, S. BELL* (Dept. of Endodontics, University of Selcuk, Konya, Turkey)

C1918 Comparative Evaluation of Fatigue Life of Three Different Nickel Titanium Instruments in Abrupt Curvature with Reciprocating Movement. M. RANJAN*, S. ANAND (conservative dentistry, saveetha dental college, Chennai, Tamilnadu, India)

I919 Apical extrusion of debris during root canal preparation using the ProTaper Next, Twisted File Adaptive, and WaveOne Gold systems. A. DINÇER*, D. ARSLAN, M. GUNESER (Endodontics, Bezmialem Vakif University, Faculty of Dentistry, Istanbul, Turkey)

I920 Comparison of Rotary Retreatment Instruments and H-files with/without Solvent Material. G. SUYUN* (Department of Endodontics, Beytepe Military Hospital, Ankara, Turkey)

SC1921 Efficacy of Protaper Universal and Reciproc Retreatment System for Guttapercha Removal From Oval Root Canals Using CBCT – An *In Vitro* Study. K. VUYURU* (conservative and endodontics, saveetha dental college, Chennai, India)

C1922 Comparison of PROTAPER NEXT and Wave One on Shaping. K. KITAJIMA*, H. IINO, K. ARAI, M. IGARASHI (School of Life Dentistry at Niigata, The Nippon Dental University, Niigata, Japan)

C1923 Comparison of Single and Multi Ni-Ti Systems on Shaping. K. ARAI*, R. YAMADA, K. KITAJIMA, M. IGARASHI (School of Life Dentistry at Niigata, The Nippon Dental University, Niigata, Japan)

I924 Shaping Ability of Rotational and Reciprocating Nickel-Titanium Endodontic File Systems: A Micro-Computed Tomographic Evaluation. A. YI*, S.H. CHUNG (Seoul National University, Seoul, Korea (the Republic of))

I925 The Impact of Transgingival Laser Irradiation on Antimicrobial Photodynamic Therapy (aPDT). J.-S. WENZLER*, R. FRANKENBERGER, A. BRAUN (Operative Dentistry & Endodontology, University of Marburg, Marburg, Germany)

I926 Impact of Diode Laser Operation Mode on Temperature Increase During Soft Tissue Incision. A. BRAUN*, M.J. ROGGENDORF, R. FRANKENBERGER, M. BERTHOLD (Operative Dentistry and Endodontology, University of Marburg, Marburg, Germany)

C1927 Effect of Solea Laser Treatment on Bacteria Viability. J. MITCHELL*, E. TANG, M. PERKINS, M.T. PULIDO (College of Dental Medicine, Midwestern University, Glendale, Arizona, USA)

I928 Evaluation of the Effects of Different Desensitizing Agents and Lasers and Their Combinations on Human Dentine Tubules: An *In-vitro* Analysis. E. ÖNCÜ*, S. KARABEKIROĞLU, N. UNLU (Periodontology, Necmettin Erbakan University, KONYA, Turkey)

Seq#: 250 Saturday, 25 June 2016, 11:15 a.m. – 12:30 p.m.
Poster Session, Hall B

**Dental Materials 7: Color and Appearance (Esthetics) –
Color & Appearance (Esthetics) III**

SC1929 Comparison of Optical Characteristics of Resin Composite by the Different Finishing and Polishing System. D. KIM* (Seoul ST.Mary's hospital, Seoul, Korea (the Republic of))

I930 Surface-gloss of Universal and Flowable Resin-composites Polished With Recent Polishing-systems. S. OGAWA*, K. HAYASHI, T. MURATA, N. ISHII, T. KAWAI, T. MASEKI, Y. NARA (Department of Adhesive Dentistry, School of Life Dentistry at Tokyo, The Nippon Dental University, Tokyo, Japan)

I931 Effect of Delayed Light Activation on Color of Resin-modified Glass-ionomer. J.H. KIM*, B.-N. LEE, Y.-C. HWANG, I.-N. HWANG, W.-M. OH, H.-S. CHANG (Department of Conservative Dentistry, Chonnam National University, Gwangju, Korea (the Republic of))

I932 Color Change of Nanohybrid and Bulk Fill Flowable Composites. M. ARREGUI*, L. GINER, M. FERRARI, M. VALLES, M. MERCADÉ (Faculty of Dentistry, Universitat Internacional de Catalunya, Barcelona, Barcelona, Spain)

SC1933 Dental Bleaching Using a Violet Light Source: *In Vivo* Study. V.H. PANHÓCA, A. DE SOUZA RASTELLI*, J.D. VOLLET FILHO, V. SALVADOR BAGNATO (Araraquara School of Dentistry, Universidade Estadual Paulista - UNESP, Araraquara, Sao Paulo, Brazil)

SC1934 Maxillary Anterior Teeth in Proportional Smile Design: An Anthropometric Analysis. H. ALSALEH*, R. ALSHEIKH (University of Dammam, Dammam, Saudi Arabia)

S1935 Qualitative and Quantitative Analysis of Free-radicals Generated During Bleaching. C. KUOKAWA*, H. OGAWA, K. TAMAOKA, T. TOKO, A. MANABE (Clinical Cariology, Showa Univ., TOKYO, Japan)

C1936 Discoloration Effect of Novel Calcium Silicate-based Materials Used in Revascularization. M. AKBULUT*, A. TERLEMEZ, M. AKMAN, B. BUYUKERKMEK, M. GUNESER (Faculty of Dentistry, Department of Endodontics, Necmettin Erbakan University, KONYA, Turkey)

Seq#: 251 Saturday, 25 June 2016, 11:15 a.m. – 12:30 p.m.
Poster Session, Hall B

Diagnostic Sciences – Diagnostic Sciences IV

- E1937** Analysis of Dental Materials Using an Energy-binned Photon-counting X-ray Detector Based Panoramic Radiography. T. FUKUI*, M. AZUMA, A. KATSUMATA, S. FUJIWARA, K. OGAWA (Department of oral radiology, Asahi University, School of dentistry, Gifu, Japan)
- S1938** Comparison of Accuracy and Reliability of Dental Measurements Using CBCT, Blue-Cam Generated Digital Models and Plaster Models. N. BALAKRISHNAN*, P. VENKATESAN (orthodontics and dentofacial orthopedics, saveetha dental college, Dindigul, Tamil Nadu, India)
- S1939** C5 as an Indicator of Skeletal Maturation – A Clinical Trial. A. DHANDAPANI*, A. FELICITA, R.K. JAIN (Department of Orthodontics, Saveetha Dental college, Chennai, India)
- C1940** Relationship Between Skeletal Maturation Stages and Age at Menarche. S.-H. YU*, E. LAI (National Taiwan University, Taipei, Taiwan)
- E1941** Usefulness of Conebeam Computed Sialography in Diagnosing Salivary Gland Lesions. P. LAM* (Faculty of Odonto-Stomatology, Department of Oral Radiology, University of Medicine and Pharmacy, HoChiMinh City, HoChiMinh, Viet Nam)
- SE1942** Assessment of the Peripheral Innervation Pattern Using Neural Protein Gene Product PGP 9.5 in Oral Submucous Fibrosis Tissues. L. CHANDRASEKARAN* (Oral Medicine & Radiology, Saveetha Dental College, Chennai, Tamil Nadu, India)
- S1943** Comparative Evaluation of External Apical Root Resorption in Extraction and Non Extraction Types of Orthodontic Treatment – A Radiological Study. V. BARAI*, V. ABRAHAM (Department of Orthodontics, Saveetha Dental College, Chennai, Tamil Nadu, India)
- SC1944** The Effect of German Chamomile, Triphala, and EDTA Used as Irrigants on Removal of Smear Layer: A Scanning Electron Microscopy Study. S. JENARTHANAN*, T. THOMAS (Conservative Dentistry and Endodontics, Saveetha Dental College, Chennai, Tamilnadu, India)

Seq#: 252 Saturday, 25 June 2016, 11:15 a.m. – 12:30 p.m.
Poster Session, Hall B

Education Research – Developing Clinical Skills: Assessment, Performance, Perceptions

- E1945** Important Soft Skills as Perceived by Dental Clinicians of the Faculty of Dentistry, University of Malaya. S.F. QUEK, K.L. TAN, M.A. GONZALEZ*, Z. NAIMIE (Department of Restorative Dentistry, Faculty of Dentistry, University of Malaya, Kuala Lumpur, Malaysia)
- SE1946** Filipino Perception Between Dark Buccal Corridors and a Full Wide Smile. C.G. ORLINA* (Orthodontics/ Pedodontics Department, Manila Central University, Caloocan city, Philippines)
- SE1947** Prenatal Oral Health: Educational Intervention During Medical Student Obstetrics Clerkship. S. LEONE*, R. QUINONEZ, A. CHUANG, A. HALL, A. KERNS, J. JACKSON, C. PHILLIPS (University of North Carolina, Chapel Hill, North Carolina, USA)

E1948 Inhalation Conscious Sedation Training in Undergraduate and Postgraduate Dental Students. M.I. CASASEMPERE, F. CODINA*, J. BUENO, M. MERCADÉ, L. TARRIDA (Oral Medicine and Public Health, International University of Catalonia, Sant Cugat del Vallés, Barcelona, Spain)

- I949** Comparing Orthodontic Curriculums between Birmingham University and University of Pacific. D. MOBARAK*, B. AHMED, A. NATTESTAD (University of Birmingham, Birmingham, West Midlands, United Kingdom)
- S1950** Oral & Maxillofacial Surgery Training in Malaysia and UK. S. SULTANA, B. AHMED, A. GONZALEZ, R. ACKROYD* (School of Dentistry, University of Birmingham, Birmingham, Birmingham, United Kingdom)
- E1951** Crown Finish Lines By General Dentists: Should They Be Improved? A. LEUNG*, M. GUPTA, M. PATEL, D. PATEL, C. LOUCA, B. BLIZARD (University College London Eastman Dental Institute, London, United Kingdom)

Seq#: 253 Saturday, 25 June 2016, 11:15 a.m. – 12:30 p.m.
Poster Session, Hall B

Evidence-based Dentistry Network – Evidence-based Dentistry II

- C1952** Clinical Performance of Rigid Versus Flexible Posts in the Restoration of Endodontically Treated Teeth – A Systematic Review. N. SURESH BABU*, S. VUCHOOR (Department of Conservative Dentistry & Endodontics, Saveetha Dental College, Chennai, India)
- I953** Effects of Third Molars on Post-orthodontic Relapse: A Meta-analysis. H.-C. CHENG*, H.-Y. HSIEH (School of Dentistry, Taipei Medical University, Taipei, ROC, Taiwan)
- C1954** Effectiveness of Mandibular Advancement Devices in Patients With Obstructive Sleep Apnea - A Systematic Review and Meta Analysis. P. ARIGA*, S. RAJAMANI (Saveetha Dental College, Chennai, India)
- SE1955** Knowledge, Awareness and Practice of Evidence Based Dentistry Among Private Practitioners in India. J. SHANMUGAM*, D.M.A. BENNIS, N. AHMED (Department Of Prosthodontics & Implantology, Saveetha Dental College, Chennai, Tamilnadu, India)

Seq#: 254 Saturday, 25 June 2016, 11:15 a.m. – 12:30 p.m.
Poster Session, Hall B

Global Oral Health Inequalities Research Network – Global Oral Health Inequalities Research I

- I956** An Indigenous Māori Framework for Oral Health Research in New Zealand. J. BROUGHTON* (Oral Diagnostic & Surgical Sciences, Otago University, Dunedin, Otago, New Zealand)
- S1957** Quality of Healthcare and Education Systems and Dental Visits. S. KINO*, E. BERNABÉ, W. SABBAH (Population and Patient Health, King's College London Dental Institute, London, United Kingdom)

Seq#: 255 Saturday, 25 June 2016, 11:15 a.m. – 12:30 p.m.
Poster Session, Hall B

Implantology Research – Implantology Research FEA Studies

- I958** Finite Element Analysis of Maxillary Prosthesis Supported by Zygomatic Implants. E. THEILMAN, R. CHANDRAN, Y. DUAN* (University of Mississippi Medical Center, Jackson, Mississippi, USA)

- S1959** Enhanced Osseointegration Around Bioactive Polyetheretherketone Fabricated by Electron Beam Evaporation. J. WEN*, T. LU, X. WANG, X. LIU, X. JIANG (Ninth Peoples Hospital, Shanghai Jiao Tong University, Shanghai, China)
- C1960** Effect of the Structural Change of the Implant Neck Area on the Stress Distribution to the Surrounding Tissues and the Stability of the Implant. D. CHOI* (Dentistry, Kangdong Sacred Heart Hospital, Seoul, Korea (the Republic of))
- C1961** FEA Model Analysis for the Effects of Stress Distribution of Saddle Type Implant on Alveolar Bone and Structural/Physical Stability of Implant. D. CHOI, Y.S. GONG*, J.W. PARK (Mi Bo Dental Clinic, Seoul, Korea (the Republic of))
- S1962** Evaluation for Effects of Mini-implant Diameter and Bone-quality Using Dynamic-FEA. K.-S. LEE*, J.Y. LEE, S.-W. SHIN (Advanced Prosthodontics, Institute for Clinical Dental Research, Korea University Medical Center, Seoul, Korea (the Republic of))

Seq#: 256 Saturday, 25 June 2016, 11:15 a.m. – 12:30 p.m.
Poster Session, Hall B

Microbiology / Immunology – Microbiology/Immunology-Biofilms & Infection Control

- I1963** Quantifying Reactive-Oxygen Species Associated With Photodynamic Chemotherapy Against *Enterococcus faecalis*. T. DANTAS, M. JANAL, S. DUARTE* (New York University, New York, USA)
- E1964** UV Treatment is Superior to Photodynamic Therapy on *Enterococcus faecalis*. M. MARKVART*, A. ARGYRAKI, T. BJARNSHOLT, P.M. PETERSEN, L. BJØRNDAL (Cariology and Endodontics, Institute of Odontology, Faculty Of Health Sciences, University of Copenhagen, Copenhagen, Denmark)
- C1965** Risk of Exposure to *Legionella Pneumophila* for Dental Practitioners. C. ESTRICH, R. LIPMAN* (Science Institute, American Dental Association, Chicago, Illinois, USA)
- I1966** Dental Unit Waterline Biofilm Laboratory Model Using CDC Biofilm Reactor. H.Y. YOON*, S.-Y. LEE (Dept. of Microbiology & Immunology, Gangneung-Wonju National University, Gangneung, Korea (the Republic of))
- S1967** Targeted Phytotherapy for Reactive Oxygen Species Linked Oral Cancer. N. SIVAKUMAR*, G. RAJAGOPALAN (Dental Surgery, Saveetha University, Chennai, Tamil Nadu, India)
- S1968** Evaluation of Antibacterial Activity of Endodontic Sealers in Combination With Antibiotics – *In Vitro* Study. M. RAVI*, G. RAJAGOPALAN (Saveetha Dental college, Chennai, Tamil Nadu, India)
- I1969** Effect of Brushing and Denture Cleansing on *In Vitro* Biofilms. D. BRADSHAW*, A. AXE, L. SHERRY, D. LAPPIN, O. MILLINGTON, G. RAMAGE (GSK Consumer Healthcare, Weybridge, Surrey, United Kingdom)
- S1970** Novel Plasma-Activated Functional Group Coatings Against *Enterococcus Faecalis* Biofilms. C. LEE*, M. KHOR, K. SIM, G. TSANG, C. SENEVIRATNE (Faculty of Dentistry, National University of Singapore, Singapore, Singapore)
- SC1971** Comparative Evaluation of Smear Layer Removal in Root Canal After Using Laser – SEM Analysis. H. JHABUAWALA* (CONSERVATIVE DENTISTRY AND ENDODONTICS, SAVEETHA DENTAL COLLEGE, CHENNAI, TAMIL NADU, India)
- SE1972** Antibiofilm Activity of 3% Sodium Hypochlorite Activated by Light and Ultrasonics – An *in Vitro* Study. H. REDDY* (conservative dentistry & endodontics, saveetha dental college, Chennai, Tamil nadu, India)

- SC1973** Evaluation of Antibacterial Efficacy of Three Root Canal Irrigants – A Randomized Clinical Trial. S. GIRAGADURAI* (conservative dentistry and endodontics, SAVEETHA DENTAL COLLEGE, CHENNAI, India)
- C1974** Bacterial-Contamination Monitoring of Dental Unit Water Lines Using ATP-Bioluminescence Analysis. A. WATANABE*, S. KOKEGUCHI, N. TAMAKI (Department of Oral Health Care and Rehabilitation, Tokushima University, Tokushima, Japan)
- I1975** Anti-biofilm Activity of Commercial Toothpastes Against *Staphylococcus Aureus*. O. LAM*, B. CHEUNG, P.W.K. TSANG (University of Hong Kong, Hong Kong, Hong Kong)
- S1976** Effect of Water Flushing in Dental Unit Waterlines With Different Disinfection Systems on Microbial Contamination. S. KIM*, Y.-R. SONG, H.S. NA, J.-H. BAE, C.-I. KOO, C.-D. JANG, J. CHUNG (Oral Microbiology, Pusan National University, Yangsan, Korea (the Republic of))

Seq#: 257 Saturday, 25 June 2016, 11:15 a.m. – 12:30 p.m.
Poster Session, Hall B

Mineralized Tissue – Dentin, Enamel & Cementum

- S1977** Removing *Ptpn11* (SHP2) Leads to a Lack of Tooth Roots. J. WANG, L. WANG, C. LI, W. YANG, J. FENG* (Dept. of Biomedical Sciences, Baylor College of Dentistry, Dallas, Texas, USA)
- S1978** Thermal Diffusion Potentials In Dentine: A Contributor to Dentine Hypersensitivity?. M. PADWAL*, G. DAVIS, D. GILLAM, G. BURNETT, I. ABRAHAMS, D. MILLS, N. KARPUGHINA (Dental Physical Sciences unit 2, Queen Mary University of London, London, United Kingdom)
- S1979** CPNE7 Regulates DSPP Expression During Ameloblast Differentiation. S.J. PARK*, Y.-H. PARK, H.-S. BAE, J.-C. PARK (School of Dentistry, Seoul National University, Seoul, Korea)
- S1980** The Enamel Protein Amelotin is an Inducer of Hydroxyapatite Mineralization in a Collagen Matrix. Y. IKEDA*, N. ABBARIN, J. HOLCROFT, B. GANSS (Matrix Dynamics Group, University of Toronto, Toronto, Ontario, Canada)
- I1981** Screening for New Regulatory Factors in Ameloblast Differentiation. J.-T. KOH*, Y. KIM, S.-W. HUR, B.-C. JEONG, S.-H. OH, J.-W. KIM, M.N. LEE, J.-W. YANG, Y.-C. HWANG, J.-H. RYU (School of Dentistry, Chonnam National University, Gwang-Ju, Korea (the Republic of))
- I1982** A Missense Mutation in *ODAM* Causes Autosomal-dominant Hypomaturation Amelogenesis Imperfecta. X. WANG*, Y. ZHAO, M. QIN (Department of Pediatric Dentistry, Peking University School and Hospital of Stomatology, Beijing, China)
- I1983** Enamel Rhythms Associate With Limited Body Size Variability In Beijing. J. ZHOU*, B. HU, J. KATRIS, S. LEE, D. XIA, H. DONG, H. WANG, T. BROMAGE (Department of General Dentistry, Beijing Stomatological Hospital, Beijing, China)
- I1984** Self-assembly Human Amelogenin Induced Parallel Crystals Boundless *in Vitro*. K. TIAN*, Q. DU, X. REN (Stomatology, Sichuan Medical Science Academy and Sichuan Provincial People's Hospital, Chengdu, China)
- SC1985** Effect of Laser Irradiation and Fluoride on Acid Softened Enamel. N. ELHOSSAINY, S. ELZOGHBY*, M. GHEITH, A. FARES (Oral Biology Cairo, Faculty of Oraland Dental Medicine, Cairo, Egypt)
- S1986** Quantification of Enamel Periodicity in Indians. A. KALHAN*, C.-Y. HSU (National University of Singapore, Singapore, Singapore)

- 1987** Fluoride Concentration in Enamel Surfaces Among 12- to 14-year Old Children. T. NGUYEN*, L. NGO (Faculty of Odonto-Stomatology, Dental Public HealthHealth, University of Medicine and Pharmacy HoChi Minh city, HoChiMinh, Viet Nam)
- S1988** Cone Beam Computed Tomography(CBCT) Analysis of Enamel-dentin Thickness of Clinical Crown in Permanent Second Molars. Y. TSAI*, P. TING, Y.-S. SHIEH (Dental Department, national defense medical center, Taipei, Taiwan)
- SC1989** Increasing Homogeneity Hardness Teeth Value. R. PUTRI* (Faculty of Dentistry, Trisakti University, Jakarta, DKI Jakarta, Indonesia)

Seq#: 258 Saturday, 25 June 2016, 11:15 a.m. – 12:30 p.m.
Poster Session, Hall B

Neuroscience – Orofacial Pain

- 1990** Pulpal Nerve Responses to Dentine Stimulation in Extracted Human Teeth. S. WANACHANTARAK, N. VONGSAVAN, O. AJCHARANUKUL, B. MATTHEWS* (Dept. of Physiology and Pharmacology, University of Bristol, Bristol, United Kingdom)
- 1991** Distinguishing Pulpal From Periapical Pain by Pain Characteristics: National Dental-PBRN. M. PIGG*, D. NIXDORF, R. NGUYEN, A. LAW, THE NATIONAL DENTAL PBRN COLLABORATIVE GROUP (Faculty of Odontology, Malmö University, Malmö, Sweden)
- E1992** Dental Pain induced Neurochemical Changes in the Human Trigeminal Brainstem. M. BRÜGGER*, A. HOCK, M. MEIER, E. SEIFRITZ, N. DE MATOS, D. ETTLIN (Center of Dental Medicine, University of Zurich, Zurich, Switzerland)
- S1993** Cold Air Heats the Brain: fMRI of Dentine Hypersensitivity. B. BRÖNNIMANN LAMBELET*, M.-Y. HOU, C. PARKINSON, D. ETTLIN, M. MEIER (Center for Dental Medicine, University of Zurich, Zürich, Switzerland)
- 1994** Probing Human Orofacial-Related Brain Pathways *in Vivo*. E. MOANA-FILHO*, D. NIXDORF, D. BEREITER, C. LENGLET (Division of TMD and Orofacial Pain, University of Minnesota School of Dentistry, Minneapolis, Minnesota, USA)
- 1995** DEEP Study: Predictors of Cost and Quality-of-life in Persistent Pain. J. DURHAM*, J. SHEN, M. BRECKONS, J. STEELE, L. VALE (Institute of Health and Society, Newcastle University, Newcastle-Upon-Tyne, United Kingdom)
- 1996** DEEP Study: The Hidden Indirect Costs of Persistent Orofacial Pain. M. BRECKONS*, J. DURHAM, J. SHEN, J. STEELE, L. VALE (Institute of Health & Society, Newcastle University, Newcastle-upon-Tyne, Tyne & Wear, United Kingdom)
- 1997** Initial Assessment of the Persistent Dentoalveolar Pain Disorder Screening Instrument. D. NIXDORF*, L. ROBINSON, S. STONE, J. DURHAM (School of Dentistry, University of Minnesota, Minneapolis, Minnesota, USA)
- SC1998** Is Amitriptyline Safe as Topical Treatment for Neuropathic Orofacial Pain?. M. AL-MUSAWI*, J. DURHAM, J. WHITWORTH, S. STONE, D. NIXDORF, R. VALENTINE (Centre for Oral Health Research, School of Dental Sciences, Newcastle University, Newcastle upon Tyne, United Kingdom)
- E1999** Pattern of Jaw and Neck Muscle Pain Among Different Abnormal Behaviors in a Group of Myofascial TMD Patients. J. PAPHANGKORAKIT*, S. RUANGSRI SERMSWATSRI, T. PLANGKON JORNS, A. RATTANATHONGKOM, D. SAELEE, M. YODBOONMA, S. NAJAIDEE, C. NAKHENGRI, J. SRIPRAWAT (Department of Oral Biology, Khon Kaen University, Khon Kaen, Thailand)

- 2000** The Possibility of Relieving Toothache During Orthodontic Treatment With Aromatherapy. T. KANEKO*, S. YOSHIZAWA, M. OHTSUKA, J. IIDA (Department of Orthodontics, Hokkaido University Graduate School of Dental Medicine, Sapporo, Japan)
- S2001** Neural Mechanisms Underlying Time-dependent Changes in Orthodontic Pain. A. SAWADA*, N. USUI, K. SHIMAZAKI, M. TAIRA, T. ONO (Orthodontic Science, Tokyo Medical and Dental University, Bunkyo-ku, Japan)

Seq#: 259 Saturday, 25 June 2016, 11:15 a.m. – 12:30 p.m.
Poster Session, Hall B

Oral Health Research – Community Oral Health II

- S2002** The Differences of Oral Health Related Behaviors by Type of School Among High School Students in Korea. S. KIM*, S.-H. JUNG (Department of Preventive and Public Health Dentistry, Gangneung-Wonju National University College of Dentistry, Gangneung-si, Gangwon-do, Korea (the Republic of))
- S2003** Clinical Study on Fluoride Iontophoresis Method for Lao Children. W.-R. PARK*, J.-W. CHO (Department of Oral Health, Graduate School, Dankook University, Cheonan-si, Choongnam-do, Korea (the Republic of))
- S2004** The Effect of 2 Years Pit and Fissure Sealant Program on Laos Children. E.-J. NA*, J.-W. CHO (Department of Oral Health, Graduate School, Dankook University, Cheonan-si, Choongnam-do, Korea (the Republic of))
- C2005** Development of Community Oral Health Care Surveillance for Preschool Children System. P. THUANNADDEE*, S. CHATA, C. SANITNAPAPONG (Dental Department, Banfang Hospital, Khon Kaen, Thailand)
- 2006** Program Development for Health Promotion During Childhood. T. TANAKA*, K. YAEAGAKI (Dept. of Oral Health, Nippon Dental University, Tokyo, Japan)
- S2007** Development and Validation of a Questionnaire Assessing Mothers' Perception About Oral Health of School-children. Z. MOMENI*, K. SARGERAN, R. YAZDANI (Community Oral Health Department School of Dentistry, Tehran University of Medical Sciences (TUMS), Tehran, Iran (the Islamic Republic of))
- SC2008** Evaluating Awareness of Patient-Dentist Miscommunication Regarding Denture Hygiene. Y.J. CHUNG*, C. DUGAS, T. YOON, T. WARD (LECOM Dental School, Bradenton, Florida, USA)
- SC2009** Effect of KKU Stepwise Sugar Reduction on Sweet Drink Taste Satisfaction. S. TANGKABUTRA*, T. TAPANANONT, S. SANGAROON, J. PAPHANGKORAKIT, A. RATTANATHONGKOM, S. KHIMSUKSRI (Faculty of Dentistry, Khon Kaen University, Amphur Maung, Khon Kaen, Thailand)
- 2010** The Relationship Between the Teeth Number and Social Capital Components. R. YAZDANI*, S. BABAZADEH, H. HESSARI (Community Oral Health, Tehran University of Medical Sciences, Tehran)
- S2011** Oral Hygiene Awareness Among Children Living in Chennai. J. BENNO, T. AHAMED, G. GUNASEKARAN* (Dentistry, Saveetha Dental College, Chennai, Tamil Nadu, India)
- 2012** Differences in Sealant Prevalence by Income and Race/Ethnicity Over Time. D. ALAGILI*, S. GRIFFIN, B. GOOCH (Dental Public Health, King Abdulaziz University, Jeddah, Saudi Arabia)
- C2013** Tooth Loss and Tooth Cleaning Control of Middle Ages in Korea: 10-year Results. D.-K. KIM*, A. CHO, S. KIM, S. PARK, S. NA, B. LEE (preventive dentistry, Chosun University, Gwangju, Chonnamdo, Korea (the Republic of))

Seq#: 260 Saturday, 25 June 2016, 11:15 a.m. – 12:30 p.m.
Poster Session, Hall B

**Periodontal Research-Therapy – Antimicrobial & Host
Modulating Approaches to Treat Periodontal Diseases**

C2014 Injectable Naringin-carrying Thermo-sensitive and pH-responsive Colloidal Hydrogel for Modulating Periodontitis. P.-C. CHANG*, Y.-C. CHAO, Y.-H. JHENG, M.-C. YU, N. LEE, C. YANG, D.-M. LIU (Graduate Institute of Clinical Dentistry, National Taiwan University, Taipei, Taiwan)

S2015 Amelogenin Modulates Macrophage Phenotype During Inflammatory Responses. K. YAMAMICHI*, H. AKIYAMA, T. FUKUDA, T. SANUI, T. KYOSUKE, U. TANAKA, T. TAKETOMI, F. NISHIMURA (Periodontology, Kyushu University, Fukuoka-city, Fukuoka-ken, Japan)

SC2016 Systematic Review on the effect of NSAIDs on Periodontal Condition. D.-Y. KANG*, I.-W. CHO, J.-C. PARK, H.-S. SHIN (Periodontology, Dankook university dental hospital, Cheonan, Chungcheongnam, Korea (the Republic of))

S2017 Effects of Allantoin on Periodontal Tissue Cells. N. SUZUKI*, M. ABE-YUTORI, T. CHIKAZAWA, K. SHIBASAKI (Lion Corporation, Edogawa, Tokyo, Japan)

C2018 Preparation and Anti-inflammatory Effects of Nanoparticles Loaded with PMX-53. Y. ZHANG*, Y. WEIXIAN, L. NA, N. SHI-LEI, L. XINCHAN, H. YU-BO (School and Hospital of Stomatology, Changchun, China)

2019 Complement Involvement in Periodontitis: Molecular Mechanisms and Therapeutic Approaches in Mouse and Non-Human Primates Periodontitis Model. T. MAEKAWA*, T. KAJIKAWA, R. BRIONES, R. RESUELLO, E. HAJISHENGALLIS, C. GARCIA, T. MAEDA, J. LAMBRIS, G. HAJISHENGALLIS (Research Center for Advanced Oral Science, Niigata University, Niigata, Niigata, Japan)

SC2020 Mitochondrial ROS Mediates the LPS-induced Pro-inflammatory Response in Gingival Fibroblast Cells. L. XUE* (Department of Periodontology, Peking University School and Hospital of Stomatology, Beijing, Beijing, China)

S2021 TLR-mediated Immunomodulation by Gingival Stem Cells. M. MEKHEMAR*, M. PAYMARD, C. DORFER, K. FAWZY EL-SAYED (Department of Conservative Dentistry and Periodontology, Christian-Albrechts University of Kiel, Kiel, Schleswig-Holstein, Germany)

S2022 Cellular Internalization and Epithelial Penetration of Fluorescent-labeled Mesoporous Silica Nanoparticles. X. LI*, K. PANG, K.C.-F. LEUNG, L. JIN (Faculty of Dentistry, The University of Hong Kong)

SC2023 Quorum Sensing Inhibitors Prevent Bone Loss in Periodontitis Mouse Model. H. BEN AMARA*, J.J. KIM, K.-T. KOO (Seoul National University, Seoul, Korea (the Republic of))

2024 Effects of LFchimera on Multispecies Oral Biofilm Formation *in Vitro*. S. RUANGCHAROEN, W. SUWANNARONG, J. BOLSCHER, K. NAZMI, E. VEERMAN, W. KHUNKITTI, S. TAWEECHASUPAPONG* (Department of Oral Diagnosis, Khon Kaen University, Khon kaen, Khon kaen, Thailand)

S2025 The Antibacterial Constituents Produced by *Lactobacillus fermentum* Against *Porphyromonas gingivalis*. T. KAWAI*, T. OHSHIMA, R. SHIN, S. IKAWA, A. TANI, N. INAZUMI, K. GOMI, N. MAEDA (Oral Microbiology, Tsurumi University, Yokohama, Japan)

E2026 Therapeutic Implications of Propolis and Curry Leaf Against Periodontitis. R. NAKAO*, Y. OGATA, T. SHIMIZU, H. SENPUKU (Department of Bacteriology I, National Institute of Infectious Diseases, Tokyo, Japan)

2027 Spry2 Downregulation Shifts Macrophages Toward an M2 Phenotype by Stimulation with Interferon γ and *Porphyromonas Gingivalis* Lipopolysaccharide. T. SANUI*, H. AKIYAMA, T. FUKUDA, U. TANAKA, T. KYOSUKE, K. YAMAMICHI, T. TAKETOMI, F. NISHIMURA (Department of Periodontology, Kyushu University, Fukuoka, Japan)

S2028 mTOR Inhibition Prevents Human Gingival Fibroblast from Gingivitis. Y. XIA*, R. SHU (Department of Periodontology, Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, Shanghai, China)

SC2029 pH-Responsive Microspheres Encapsulating Metronidazole or N-Phenacylthiazolium Bromide Modulate Periodontitis Progression. J.H. LIN*, F. FENG, M.-C. YU, N. LEE, C. YANG, C.-H. WANG, P.-C. CHANG (National Taiwan University, Taipei, Taiwan)

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Poster Session, Hall B

**Prosthodontics Research – Studies in Removable
Prosthodontics**

S2030 Retentive Force of Novel Polyetheretherketone (PEEK) Clasp Design. S. MUHSIN*, P. HATTON, A. JOHNSON, N. SERENO, D. WOOD (School of Clinical Dentistry, University of Sheffield, Sheffield, South Yorkshire, United Kingdom)

S2031 Do Patient Factors Influence Differences in Anatomic and Neutral Zone Dentures?. G. GEERTS* (Dept. of Restorative Dentistry, University of the Western Cape, Tygerberg, South Africa)

S2032 Adaptation to Complete Dentures: Masticatory Performance, Muscle Activity and OHIP. K. OH*, N. GIANNAKOPOULOS, S. KAPPEL, C. EIFFLER, P. RAMMELSBERG, L. EBERHARD (Prosthodontics, University of Heidelberg, Heidelberg, Germany)

C2033 Mastication Ability and Psychological Status of the Elderly. L. KUSDHANY*, M. NATHANAEL, R. DIAZ, M. INDRASARI, S. FARDANIAH, C. MASULILI, D. INDRANI, E. HOGERVORST (Prosthodontic, Faculty of Dentistry Universitas Indonesia, Jakarta, Indonesia)

C2034 Accuracy of Optical Impression for Free-end Partially Edentulous Region. A. TASAKA*, T. MITSUI, T. KASAHARA, T. TAKANASHI, S. HOMMA, S. MATSUNAGA, S. ABE, M. YOSHINARI, S. YAMASHITA (Tokyo Dental College, Tokyo, Japan)

SC2035 *In vivo* Performance Of DMLS Co-Cr FPDs: 3,5 Year Follow-up. A. NATALI, S. BORTOLINI, M. GIAVATTO*, J. GIANNATIEMPO, R. NARDI, A. BIANCHI, U. CONSOLO (Università di Modena e Reggio Emilia, Concordia sulla Secchia, Modena, Italy)

2036 Studies on the Measurement of Retentive Force of Retainer at the Time of Removable Partial Denture Wearing. H. AKIYAMA* (General Dentistry, Nippon Dental University Hospital, Tokyo, Japan)

S2037 Analysis of the Wear Rate Behavior of Artificial Teeth. P. UEHARA*, R. BALLESTER, R. SOUZA, R. TAMAKI, D. LAGANÁ (Prosthesis, FOSP, São Paulo, São Paulo, Brazil)

C2038 Prevention of *Candida* Adhesion to Soft Liner With Lemongrass Gel. D. SAE-LEE*, R. CHIMNGAM, S. TAWEECHASUPAPONG, W. KHUNKITTI (Department of Prosthetic Dentistry, Khon Kaen University, Khon Kaen, Thailand)

- C2039** Facial Dimensions for the Aesthetic Replacement of Maxillary Anterior Teeth. T. KYAW*, S. HLAING, T. SWE, T. KYU (Department of Prosthodontics, University of Dental Medicine, Yangon, Myanmar, Myanmar)
- SC2040** Relevancy of Divine Proportion in Measuring Vertical Dimension of Jaws. S. THET AUNG*, A.M. NAINING, S. HLAING, T. SWE (Department of Prosthodontics, University of Dental Medicine, Yangon, Myanmar, Myanmar)
- S2041** Stress Analysis of Mandibular Implant Overdentures With Different Implant Positions. K. YALIKUN*, M. KANAZAWA, S. TAKESHITA, K. ODA, M. TANOUE, A. MIYAYASU, K.M. THU, T. VO, S. MINAKUCHI (Gerodontology and Oral Rehabilitation, Tokyo Medical & Dental University, Tokyo, Japan)
- C2042** Effect of New Removable Dentures on Foods and Nutrients Intakes. Y. KOMAGAMINE*, M. KANAZAWA, H. SUZUKI, N. AMAGAI, S. MINAKUCHI (Gerodontology and Oral Rehabilitation, Tokyo Medical and Dental University, Tokyo, Japan)
- SC2043** Association of Diabetes and Glycemic Control With Dental Prosthesis: A Study of the 2008-2010 Korean National Health and Nutrition Examination Survey (KNHANES). S.E. LEE* (Conservative dentistry & Prosthodontics, Catholic Graduate School of Clinical Dentistry, Seoul, Seocho-gu, Korea (the Republic of))
- SC2044** Cost Analysis of the Different Impression Methods for Complete Dentures. A. MIYAYASU*, A. JO, M. KANAZAWA, Y. SATO, M. IWAKI, N. AKIBA, S. MINAKUCHI (Gerodontology and Oral Rehabilitation, Tokyo Medical and Dental University, Bunkyo-ku, Tokyo, Japan)
- 2045** Effect of Support on Masticatory Performance of Partial RDPs. L. EBERHARD*, K. OH, L. BACH, D. HELLMANN, N. GIANNAKOPOULOS, H.-J. SCHINDLER (Prosthodontics, University of Heidelberg, Heidelberg, Germany)

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Poster Session, Hall B

Stem Cell Biology – Stem Cell Biology III

- E2046** Directing Human iPS Cells Toward PDL Stem Cells. S. HAMANO*, A. TOMOKIYO, N. WADA, D. HASEGAWA, H. SUGII, S. YOSHIDA, S. SERITA, H. MIZUMACHI, H. MITARAI, H. MAEDA (Endodontology and Operative Dentistry, Kyushu University, Fukuoka, Japan)

- 2047** Isolation and Characterization of BM-MSCs Using Serum/Xeno-free GMP-compliant Media. A. BAKOPOULOU, D. APATZIDOU*, E. GOUSOPOULOU, D. ANDREADIS, G. LEYHAUSEN, J. VOLK, A. KONSTANTINIDIS, P. KOIDIS, W. GEURTSEN (Periodontology and Implant Biology, Aristotle Univ of Thessaloniki, Thessaloniki, Greece)
- S2048** Comparative Study on Different Concentration of Hydrogel-based Scaffolds and Dental Stem Cell for the Development of Patient-specific 3D Printing Bioink. H. CHOI*, C.-H. MOON, C. ZHANG, A. LEE, Y.-B. PARK, Y. PARK (Department of Prosthodontics, Yonsei University, Seoul, Korea (the Republic of))
- 2049** Roles of Heat Shock Protein-B8 and MicroRNAs in Maintaining Differentiation Capability of Dental Pulp Stem Cells. S. YAO*, M. FLANAGAN, H. CHENG, C. LI, Y. HU, X. WU, Z. WANG (School of Vet. Med., Louisiana State University, Baton Rouge, Louisiana, USA)
- SE2050** Using PLGA/ α -TCP Composite Scaffold Incorporating VEGF Enhanced Osteogenic Differentiation of Rat Bone Mesenchymal Stem Cells. J. LIU*, C. QIAO, L. ZHAO, H. SUN (stomatology, JILIN university, Changchun CITY, JILIN PROVINCE, China)
- S2051** Differentiation of Bone Marrow-derived Mesenchymal Stem Cells Into Oral Epithelial-like Cells by Tissue-specific Extracellular Matrix. R. RAKIAN*, T. BLOCK, M. MARINKOVICH, X.-D. CHEN (Comprehensive Dentistry, University of Texas Health Science Center at San Antonio, San Antonio, Texas, USA)
- S2052** Mechanical Stress Helps to Maintain the Differentiation Potency of Mesenchymal Stem Cells. C.H. SEONG* (Department of Oral Biochemistry, Kagoshima University, Graduate School of Medical and Dental Sciences, Kagoshima, Japan)
- 2053** Differentiation of Human Dental Pulp Stem Cells Into Odontoblast-like Cells. T. LE*, L. TRAN (Faculty of Odonto-Stomatology, Dental Basic Sciences, University of Medicine and Pharmacy HoChi Minh city, Ho Chi Minh city, Viet Nam)
- E2054** Stemness Properties and Differentiation of HPDLFs in Different Glucose Conditions. S. SEUBBUK, H. SRITANAUDOMCHAI, J. KASETSUWAN, D. PUENGSRIN, R. SURARIT* (Faculty of Dentistry, Mahidol University, Bangkok, Thailand)

POSTER CHAIR LISTING

SATURDAY, JUNE 25, 2016

Poster Sessions: 9:45 a.m. – 11 a.m.

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227	DM	1671-1676	Mustafa Tunali
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229	DM	1686-1702	Gokhan Suyun
230	DM	1703-1711	
231	GOR	1712-1722	Sunyoung Ma
232	IMP	1723-1727	Yuanyuan Duan
233	MI	178-1738	David Bradshaw
234	MT	1739-1760	Sanaa Elzoghby
235	NUT	1761-1766	
236	OMP	1767-1775	V.K. Hazarey
237	OMS	1776-1788	Mariko Hattori
238	POHR	1789-1797	Sophiya Juliet
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240	PTT	1809-1819	Lakshmi Thangavelu
241	PROS	1820-1828	Tian Tian
242	PB	1829-1842	Orapin Ajcharanukul
243	SCB	1843-1855	Chen Zhou

Poster Sessions: 11:15 a.m. – 12:30 p.m.

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245	CAR	1869-1873	
246	CRAN	1874-1887	Mirei Chiba
247	DM	1888-1901	Mervat Moussa
248	DM	1902-1916	
249	DM	1917-1928	Tomas Duminis
250	DM	1929-1936	
251	DIA	1937-1944	G. Maragathavalli
252	EDU	1945-1951	Neeraj Gugnani
253	EBD	1952-1955	
254	GOHIRN	1956-1957	Easter Joury
255	IMP	1958-1962	YINGHUI LI
256	MI	1963-1976	Masayoshi Uezono
257	MT	1977-1989	
258	NEU	1990-2001	Robert Caudle
259	OHR	2002-2013	Yeon-Hee Lee
260	PERIO	2014-2029	Axel Spahr
261	PROS	2030-2045	Valentim Barão
262	SCB	2046-2054	Ling He



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