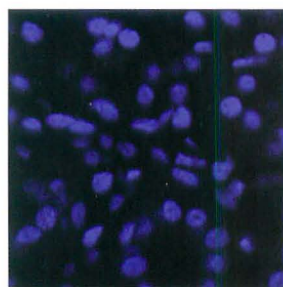
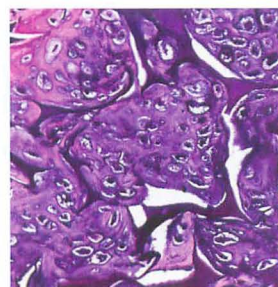




**PROGRAM BOOK 41ST ANNUAL MEETING & EXHIBITION OF
THE AMERICAN ASSOCIATION FOR DENTAL RESEARCH.
36TH ANNUAL MEETING OF THE CANADIAN ASSOCIATION
FOR DENTAL RESEARCH. TAMPA CONVENTION CENTER.**

EXHIBIT HEALTH PARTNERSHIP GUIDE MEETING
IMPROVEMENT ORGANIZATION INVOLVEMENT
RESEARCH IMPROVEMENT MEMBERS NETWORK
OPPORTUNITY KNOWLEDGE CURRENT SUPPORT
PROGRAMS SCIENCE EDUCATION NATIONWIDE

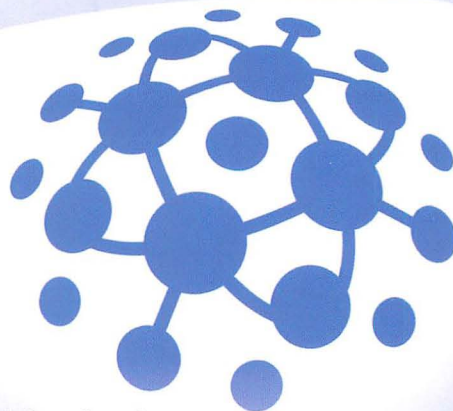


**DON'T MISS THE DISTINGUISHED
LECTURE SERIES PRESENTATIONS BY
JOHN S. GREENSPAN ON WEDNESDAY,
MARTHA J. SOMERMAN ON THURSDAY AND
ANTHONY J. ATALA ON FRIDAY.**

ADVANCEMENT EXCHANGE EXHIBITION QUALITY
CONFERENCES SUPPORT ASSOCIATION GOAL
EXPERTISE PROGRAM COMMUNITIES ACTIVE
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*Poster 837: Novel Resins for Dental Composites and Sealants
Friday, March 23, 2012: 2 p.m. - 3:15 p.m. Location: East Hall*

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2012 AADR Advocacy Day on Capitol Hill

April 19, 2012 - Washington, DC

Given the very real potential for significant cuts facing the National Institutes of Health (NIH) and other agencies in FY13, attendance at the annual AADR Advocacy Day on Capitol Hill is now as important as ever. AADR is assembling a program that will provide attendees with a brief overview of the funding and political landscape in Washington, DC, as well as an afternoon of meetings with your elected officials and congressional staff. In just one day, you can have a tremendous impact on the future of federal investments in dental education and research. No previous government affairs experience is needed, just your passion for medical research!

RSVP by March 26.

Participants will have:

- ✓ An issues briefing with members of Congress.
- ✓ Time to meet with members of Congress and/or staff.
- ✓ An impact on the future of federal investments in dental education and research.

To RSVP:

Send an email to AADR Director of Government Affairs Jonathan Nurse at jnurse@aadronline.org.

More information:

Visit www.aadronline.org/gablog to learn more about Advocacy Day and to read important updates from AADR.

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LEGEND:

CC: Tampa Convention Center

MH: Marriott Hotel (HQ)

SCHEDULE OF EVENTS

DATE/TIME	EVENT	LOCATION
SUNDAY, MARCH 18, 2012		
5 p.m. – 7 p.m.	ADA SCDP Sharepoint Training	MH, Meeting Room 1
MONDAY, MARCH 19, 2012		
8 a.m. – 4:30 p.m.	Satellite Symposium – Clinical Research Workshop (Part 1)	MH, Florida Ballroom Salon VI
10:30 a.m. – Noon	ADA SCDP Subcommittee 2/U.S. Sub-TAG 2 Prosthodontic Materials (invitation only)	MH, Meeting Room 4
	ADA SCDP Subcommittee 4/U.S. Sub-TAG 4 Dental Instruments (invitation only)	MH, Meeting Room 2
	ADA SCDP Subcommittee 1/U.S. Sub-TAG 1 Restorative Materials & Orthodontic Products (invitation only)	MH, Florida Ballroom Salons I-II
Noon – 1:30 p.m.	ADA SCDP/U.S. TAG New Member Orientation (invitation only)	MH, Meeting Room 3
	ADA SCDP Subcommittee 3/U.S. Sub-TAG 3 Dental Terminology (invitation only)	MH, Meeting Room 1
1:30 p.m. – 3:30 p.m.	ADA SCDP Subcommittee 8/U.S. Sub-TAG 8 Dental Implants (invitation only)	MH, Meeting Room 2
	ADA SCDP Subcommittee 6/U.S. Sub-TAG 6 Dental Equipment & U.S. Sub-TAG 9 Infection Control Products (invitation only)	MH, Florida Ballroom Salons I-II
3:30 p.m. – 5:30 p.m.	ADA SCDP Subcommittee 7/U.S. Sub-TAG 7 Oral Hygiene Products (invitation only)	MH, Meeting Room 4
	ADA SCDP Subcommittee 5 CAD/CAM (invitation only)	MH, Florida Ballroom Salon IV
6 p.m. – 7:30 p.m.	ADA SCDP/U.S. TAG Reception (invitation only)	MH, Meeting Room 1
TUESDAY, MARCH 20, 2012		
8 a.m. – Noon	ADA SCDP Annual Meeting (invitation only)	MH, Florida Ballroom Salons IV-V
8 a.m. – 4:30 p.m.	Satellite Symposium – Clinical Research Workshop (Part 2)	MH, Florida Ballroom Salon VI
12:30 p.m. – 2:30 p.m.	ADA SCDP 7.44 & 7.45 – Powered Oral Hygiene Devices & Manual Toothbrushes (invitation only)	MH, Meeting Room 1
1 p.m. – 2 p.m.	ADA SCDP Working Group 7.67 – Denture Adhesives (invitation only)	MH, Meeting Room 2
1 p.m. – 3:30 p.m.	ADA SCDP Working Group 5.69 on CAD/CAM Bonding Cements (invitation only)	MH, Florida Ballroom Salon III
1 p.m. – 6 p.m.	Epi/Forum	MH, Meeting Room 7
2 p.m. – 3 p.m.	ADA SCDP Working Group 7.56 – Toothpastes (invitation only)	MH, Meeting Room 3
	ADA SCDP Working Group 1.1 – Adhesion (invitation only)	MH, Meeting Room 4
2:30 p.m. – 6:30 p.m.	Registration Open	CC, East Foyer (2nd Floor)
	Coat and Baggage Check	CC, East Foyer (2nd Floor)
	Speaker Ready Room Open	CC, Room 17
2:30 p.m. – 3:30 p.m.	ADA SCDP Joint Working Group 2 – Implant Instruments (invitation only)	MH, Meeting Room 1
	ADA SCDP Working Group 9.51 on Gloves (invitation only)	MH, Florida Ballroom Salon II

DATE/TIME	EVENT	LOCATION
TUESDAY, MARCH 20, 2012 (CONTINUED)		
3 p.m. – 4 p.m.	ADA SCDP Working Group 1.3 – Composite Resins (invitation only)	MH, Meeting Room 4
3 p.m. – 4:30 p.m.	AADR Connect Session	MH, Meeting Room 6
3:15 p.m. – 4 p.m.	ADA SCDP Working Group 7.55 – Oral Rinses (invitation only)	MH, Meeting Room 2
4 p.m. – 7 p.m.	ADA Panel Forum: Bridging Gaps between Dental Standards Development and Industry (invitation only)	MH, Florida Ballroom Salon I
WEDNESDAY, MARCH 21, 2012		
7:30 a.m. – 8:30 a.m.	ADA SCDP Working Group 7.60 – Whitening Agents (invitation only)	MH, Meeting Room 5
8 a.m. – 10 a.m.	ADA SCDP Subcommittee 6 Working Group (invitation only)	MH, Meeting Room 3
8 a.m. – Noon	Satellite Symposium – Clinical Research Workshop (Part 3)	MH, Florida Ballroom Salon VI
	AADR Council Meeting	MH, Grand Ballroom Salon H-I
8 a.m. – 1 p.m.	AADR/Johnson & Johnson Healthcare Products Hatton Awards Competition – Junior Category	MH, Meeting Room 8
	AADR/Johnson & Johnson Healthcare Products Hatton Awards Competition – Senior Category	MH, Meeting Room 9
	AADR/Johnson & Johnson Healthcare Products Hatton Awards Competition – Post-doctoral Category	MH, Meeting Room 10
	AADR/Johnson & Johnson Healthcare Products Hatton Awards Competition – Judges Room	MH, Greco Boardroom
8 a.m. – 4:30 p.m.	Registration Open	CC, East Foyer (2nd Floor)
	Coat and Baggage Check	CC, East Foyer (2nd Floor)
	Speaker Ready Room Open	CC, Room 17
8 a.m. – 5 p.m.	Exhibitor Move-in	CC, East Hall
8:30 a.m. – 10 a.m.	ADA SCDP Joint Working Group I Biological Evaluation (invitation only)	MH, Florida Ballroom Salon I
	ADA SCDP Working Group 7.61 – Fluoride Varnishes (invitation only)	MH, Meeting Room 2
9 a.m. – 11:45 a.m.	NIDCR Trainees Poster Session	CC, Ballroom A
10 a.m. – Noon	ADA Digital Restorative Dentistry Symposium (invitation only)	MH, Meeting Room 4
Noon – 1 p.m.	NIDCR Director's Meeting with Research Trainees and Junior Scientists	CC, Room 5
	Advocacy for Federal Investments in Research	CC, Room 37
1 p.m. – 1:45 p.m.	NIDCR Director's Meeting with Dual-Degree Trainees	CC, Room 5
1:30 p.m. – 2:30 p.m.	New Member & First-Timer Orientation Reception	CC, Room 23
1:45 p.m. – 2 p.m.	Oral Session Chairperson Orientation	CC, Room 3
1:45 p.m. – 2:45 p.m.	NIDCR Director's Meeting with Institutional Training Program Directors	CC, Room 5
2:30 p.m. – 4 p.m.	Oral Sessions, Symposia and Hands-on Workshops (Seq #s 1–14)	See Chron Listing
4 p.m. – 5 p.m.	Society for Color and Appearance in Dentistry Executive Board Meeting	CC, Room 37
4:15 p.m. – 5 p.m.	Distinguished Lecture Series: John Greenspan – HIV/AIDS: The Task Continues	CC, Ballroom B-C
5:15 p.m. – 6 p.m.	Opening Ceremonies and Awards Program	CC, Ballroom B-C

DATE/TIME	EVENT	LOCATION
6 p.m. – 7 p.m.	Welcome Reception (for registered attendees only)	CC, Riverwalk
6:30 p.m. – 7:30 p.m.	NSRG 30 th Anniversary Reception (invitation only, sponsored by Aegis)	CC, Room 5
7 p.m. – 8:30 p.m.	Indiana University School of Dentistry Reception (invitation only)	MH, Florida Ballroom Salon IV
7 p.m. – 9 p.m.	Dental Materials Group Reception (Ticketed Event – sponsored by 3M ESPE, GC America, Inc., Ivoclar Vivadent, Inc., Septodont Inc., Tokuyama Dental and Whipmix)	Tampa Bay History Center

THURSDAY, MARCH 22, 2012

7 a.m. – 5 p.m.	Registration Open	CC, East Foyer (2nd Floor)
	Coat and Baggage Check	CC, East Foyer (2nd Floor)
	Speaker Ready Room Open	CC, Room 17
7 a.m. – 8 a.m.	Craniofacial Biology Research Group Executive Committee Meeting	MH, Meeting Room 4
7 a.m. – 10 a.m.	Geriatric Oral Research Group Executive Committee Meeting	MH, Meeting Room 5
8 a.m. – 9:30 a.m.	Oral Sessions, Symposia and Hands-on Workshops (Seq #s 16–31)	See Chron Listing
8 a.m. – 1 p.m.	AADR National Student Research Group 2012 DENTSPLY/Caulk Competition – Basic Science Category	CC, Room 1
	2012 DENTSPLY/Caulk Competition – Clinical Science Category	CC, Room 3
8 a.m. – 5 p.m.	Poster Viewing Open	CC, East Hall
9:45 a.m. – 10:30 a.m.	Distinguished Lecture Series: Martha Somerman – Personalized Health Care: Opportunities and Challenges for Dentistry	CC, Ballroom B-C



*AADR members, Board and staff congratulate the
AADR National Student Research Group
on its 30th anniversary.*

The AADR NSRG has been vital to the success of the AADR Annual Meetings with increasing numbers of excellent student presentations. The AADR NSRG has been an integral part of AADR's increased membership, and the group's members play an important role in the continued growth and promotion of research culture at their academic institutions.



DATE/TIME	EVENT	LOCATION
THURSDAY, MARCH 22, 2012 (CONTINUED)		
10:45 a.m. – 12:15 p.m.	Oral Sessions, Symposia and Hands-on Workshops (Seq #s 33–49)	See Chron Listing
	NIDCR Training and Career Development Opportunities	CC, Room 5
12:15 p.m. – 1:30 p.m.	AADR Committees' Lunch	CC, Ballroom B
	Lunch & Learning (ticketed event)	CC, Ballroom A
	Women in Science Network Business Meeting	CC, Room 37
1 p.m. – 4 p.m.	Friends of NIDCR Board of Directors	CC, Room 7
	American Association of Oral Biologists Board of Directors	MH, Meeting Room 4
1 p.m. – 5 p.m.	Exhibits Open	CC, East Hall
1:30 p.m. – 2:30 p.m.	NIH Peer Review: Overview and What's New	CC, Room 5
	ADEA MedEdPORTAL: Sharing Faculty Resources	CC, Room 31
2 p.m. – 3:15 p.m.	Poster Discussion Sessions (Seq # 50)	See Chron Listing
	Poster Presentations – Block #1 (Seq #s 51–67)	CC, East Hall
	AADR Board of Directors Meeting	CC, Room 1
3:30 p.m. – 4:45 p.m.	Poster Discussion Sessions (Seq # 68)	See Chron Listing
	Poster Presentations – Block #2 (Seq #s 69–83)	CC, East Hall
3:30 p.m. – 5 p.m.	Dental CTSA Meeting	CC, Room 8
4 p.m. – 4:45 p.m.	NSRG Student Research Group Plenary Session (Seq # 84)	CC, Room 10
5 p.m. – 6 p.m.	National Student Research Group – Business Meeting	MH, Florida Ballroom Salon IV
	Cariology Research Group Meeting	CC, Room 18
	Pharmacology/Therapeutics/Toxicology Research Group Meeting	CC, Room 16
	Craniofacial Biology Research Group Meeting	CC, Room 23
5 p.m. – 7 p.m.	Oral Medicine and Pathology Group Reception	CC, Room 24
5:30 p.m. – 6:30 p.m.	CADR Annual General Meeting (AGM)	CC, Room 21
	Evidence-based Dentistry Network Business Meeting and Reception	CC, Room 25
6 p.m. – 7 p.m.	Behavioral, Epidemiologic & Health Services Research and Geriatric Oral Research Groups Joint Reception	CC, Room 6
6 p.m. – 7:30 p.m.	University of Iowa College of Dentistry Reception (invitation only)	MH, Grand Ballroom Salon A
	Tufts University School of Dental Medicine Reception (invitation only)	MH, Grand Ballroom Salon B
	University of Rochester, Eastman Institute for Oral Health – Alumni and Friends Reception (invitation only)	MH, Florida Ballroom Salon III
6 p.m. – 8 p.m.	Stony Brook University School of Dental Medicine Reception (invitation only)	MH, Grand Ballroom Salon G
	Boston University Reception (invitation only)	MH, Grand Ballroom Salon H
	University of Washington Reception (invitation only)	MH, Grand Ballroom Salon I
	The Ohio State University College of Dentistry Reception (invitation only)	MH, Meeting Room 1
	Mineralized Tissue, Pulp Biology & Regeneration Research, Craniofacial Biology Groups Joint Reception	CC, Room 22
	AADR NSRG Student & Faculty Advisors Reception (invitation only, sponsored by DENTSPLY International)	MH, Waterside Patio, First Floor

DATE/TIME	EVENT	LOCATION
6 p.m. – 8:30 p.m.	University of Michigan Dean's Reception (invitation only)	MH, Grand Ballroom Salon E
6:30 p.m. – 8 p.m.	CADR Reception	CC, Room 19
6:30 p.m. – 8:30 p.m.	The Forsyth Institute and Harvard University Reception (invitation only)	MH, Florida Ballroom Salon II
6:30 p.m. – 9 p.m.	UCSF School of Dentistry Reception (invitation only)	MH, Pool Deck
7 p.m. – 8:30 p.m.	University of North Carolina School of Dentistry Reception (invitation only)	MH, Meeting Room 4

FRIDAY, MARCH 23, 2012

7 a.m. – 5 p.m.	Registration Open	CC, East Foyer (2nd Floor)
	Coat and Baggage Check	CC, East Foyer (2nd Floor)
	Speaker Ready Room Open	CC, Room 17
7 a.m. – 10 a.m.	DMG Dental-Material Gesellschaft mbH Breakfast Reception (invitation only)	MH, Meeting Room 5
7:30 a.m. – 8:30 a.m.	AADR Institutional Section Meeting	CC, Room 33
8 a.m. – 5 p.m.	Poster Viewing Open	CC, East Hall
8 a.m. – 9:30 a.m.	Oral Sessions, Symposia and Hands-on Workshops (Seq #s 85–99)	See Chron Listing
8:30 a.m. – 9:30 a.m.	SRG Presidents' and Faculty Advisors Breakfast (invitation only)	CC, Ballroom A
9:30 a.m. – 5 p.m.	Exhibits Open	CC, East Hall

Join The Forsyth Institute in Honoring the Legacy of Dr. Sigmund Socransky

**Dr. Sigmund Socransky
Memorial Symposium**
September 18–20, 2012;
Boston, MA

For more details contact
Rcoburn@forsyth.org

Forsyth

With Special Thanks to our Sponsors:



Selected Speakers include:

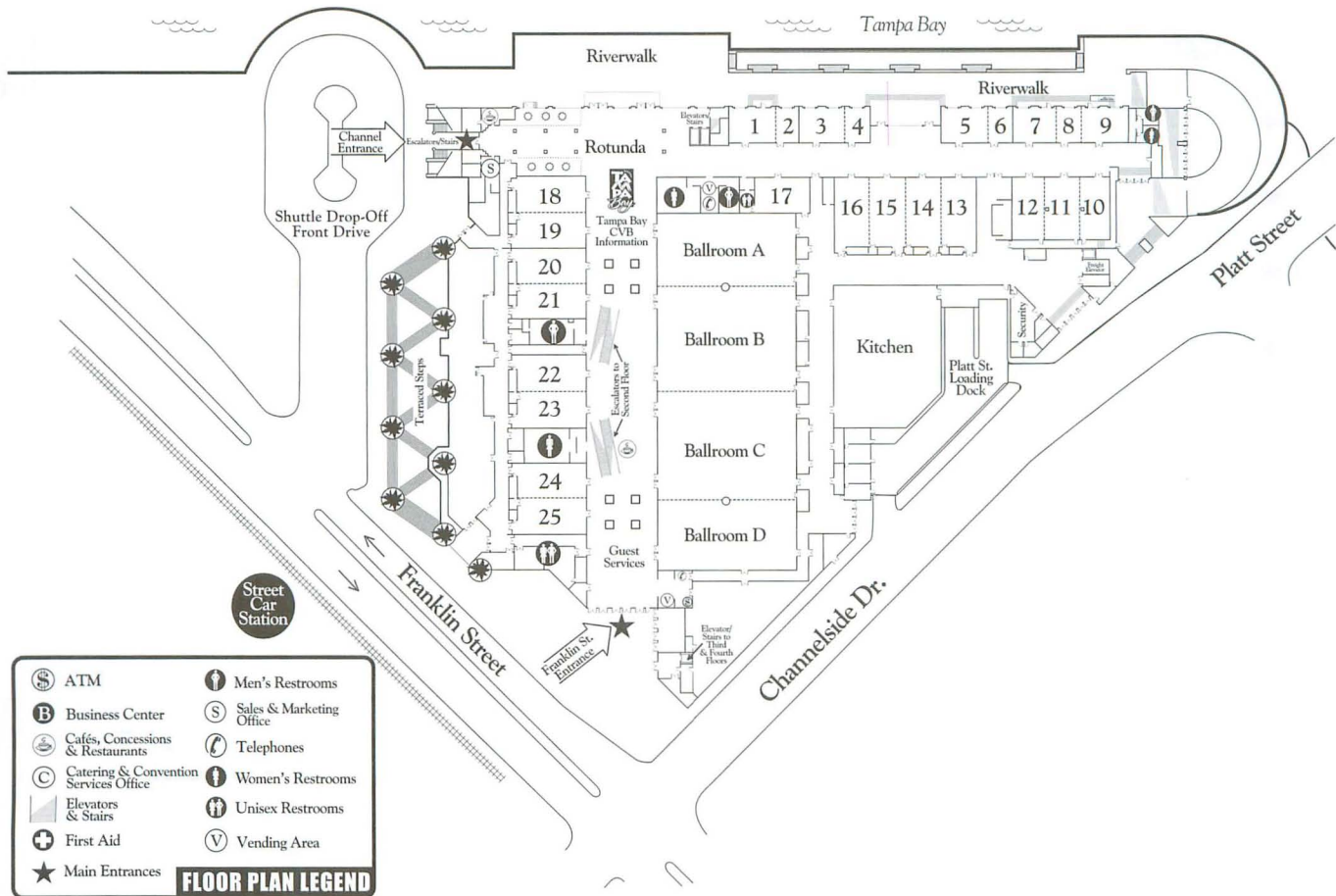
Dr. Anne Haffajee, Senior Member of Staff Emeritus, The Forsyth Institute; **Dr. Walter Loesche**, University of Michigan School of Dentistry; **Dr. Steve Offenbacher**, North Carolina Oral Health Institute; **Dr. J. Max Goodson**, The Forsyth Institute; **Dr. Dan Fine**, University of Medicine and Dentistry of New Jersey; **Dr. David Relman**, VA Palo Alto Health Care System; **Dr. Magda Feres**, Guarulhos University, Brazil; **Dr. Bob Genco**, University at Buffalo Technology Incubator; **Dr. Will Giannobile**, University of Michigan School of Dentistry; **Dr. Ray Williams**, Stony Brook University School of Dental Medicine; **Dr. AJ Van Winkelhoff**, Academic Centre for Dentistry Amsterdam; **Dr. Panos Papapanou**, Columbia University College of Dental Medicine; **Dr. Flavia Teles**, The Forsyth Institute; **Dr. Abdul Gaffar**, Formerly Colgate Palmolive

DATE/TIME	EVENT	LOCATION
FRIDAY, MARCH 23, 2012 (CONTINUED)		
9:45 a.m. – 10:30 a.m.	Distinguished Lecture Series: Anthony Atala – Regenerative Medicine and Organ Replacement Therapy	CC, Ballroom B-C
10:45 a.m. – 12:15 p.m.	Oral Sessions, Symposia and Hands-on Workshops (Seq #s 101–115)	See Chron Listing
12:15 p.m. – 1:30 p.m.	Lunch Break	
12:15 p.m. – 1:45 p.m.	AADR/CADR Past Executives' Business Meeting (sponsored by Johnson & Johnson) (invitation only)	CC, Room 1
	VIP Luncheon for Spouses/Partners of the AADR/CADR Past Executives (invitation only)	CC, Room 3
	Meet-a-Mentor Luncheon (Ticketed event sponsored by Sunstar)	CC, Ballroom A
1 p.m. – 5:30 p.m.	NIDCR Essentials in Grant Writing (Seq # 116)	CC, Room 13
2 p.m. – 3:15 p.m.	Poster Discussion Sessions (Seq #s 117–118)	See Chron Listing
	Poster Presentations – Block #1 (Seq #s 119–133)	CC, East Hall
	IADR North American Region Board Meeting	CC, Room 6
3:30 p.m. – 4:45 p.m.	Poster Discussion Sessions (Seq # 134)	See Chron Listing
	Poster Presentations – Block #2 (Seq #s 135–151)	CC, East Hall
3:30 p.m. – 5 p.m.	AADR Research Deans Meeting	CC, Room 5
4:30 p.m. – 5 p.m.	Oral and Maxillofacial Surgery Group Business Meeting	CC, Room 15
5 p.m. – 6 p.m.	Geriatric Oral Research Group Business Meeting	MH, Meeting Room 5
5:30 p.m. – 7 p.m.	JDR Editorial Board & Reviewer Reception (invitation only)	CC, Room 1
6 p.m. – 7:30 p.m.	University of Minnesota AADR Reception (invitation only)	MH, Meeting Room 1
6:30 p.m. – 8 p.m.	NYU College of Dentistry Reception (invitation only)	MH, Meeting Room 4
SATURDAY, MARCH 24, 2012		
8 a.m. – 12:30 p.m.	Registration Open	CC, East Foyer (2nd Floor)
	Coat and Baggage Check	CC, East Foyer (2nd Floor)
	Speaker Ready Room Open	CC, Room 17
8 a.m. – 9:30 a.m.	Oral Sessions, Symposia and Hands-on Workshops (Seq #s 152–165)	See Chron Listing
8 a.m. – 11 a.m.	Poster Viewing Open	CC, East Hall
9:45 a.m. – 11 a.m.	Poster Discussion Session (Seq #s 166)	See Chron Listing
	Poster Presentations (Seq #s 167–194)	CC, East Hall
10 a.m. – 11 a.m.	Publications Committee Meeting	CC, Room 3
11:15 a.m. – 12:30 p.m.	Closing Ceremonies and President's Induction Ceremony	CC, Ballroom C
12:45 p.m. – 2:15 p.m.	GPC Meeting	CC, Room 5

FLOOR PLANS

TAMPA CONVENTION CENTER

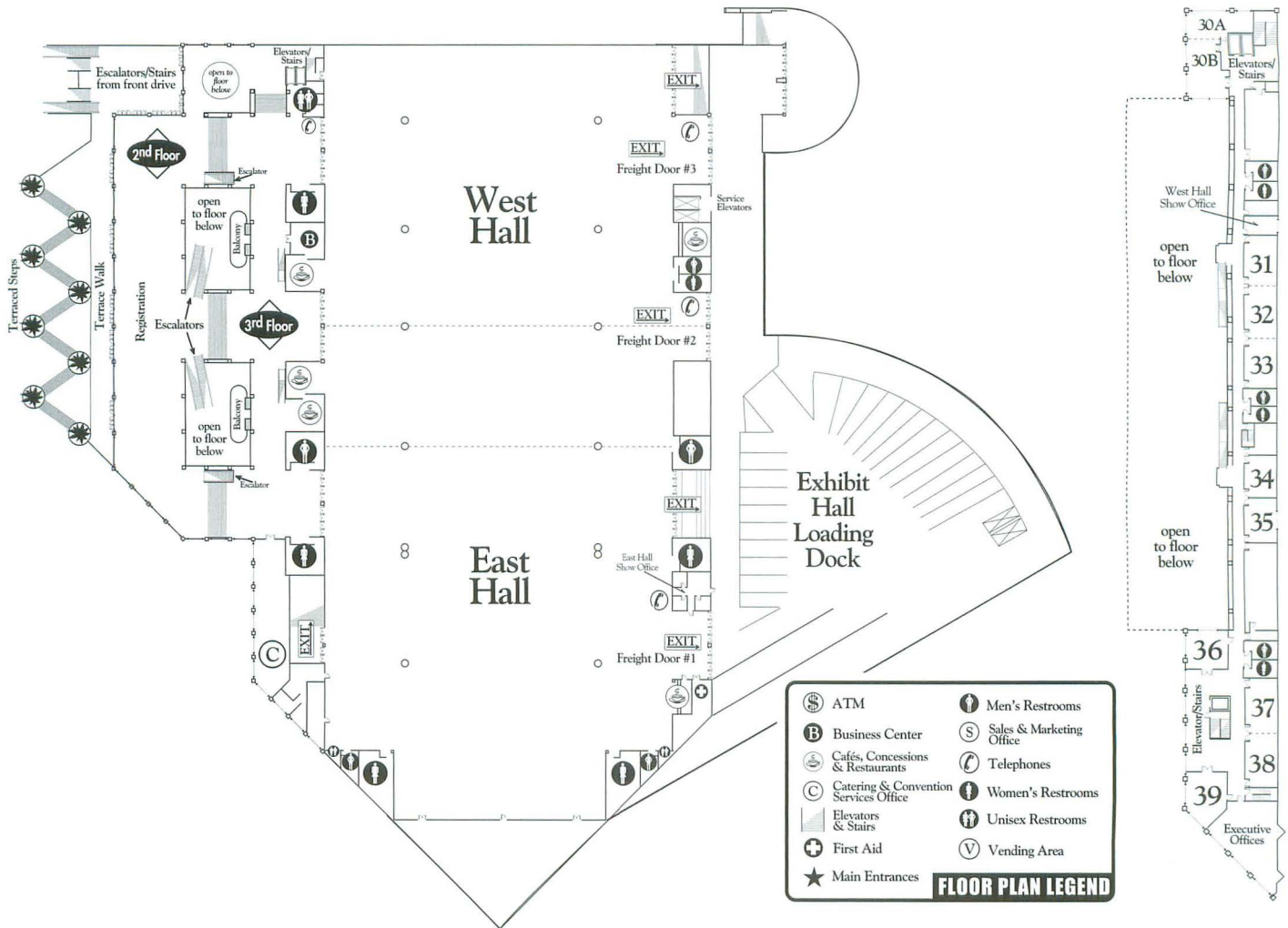
FIRST FLOOR MEETING SPACE



TAMPA CONVENTION CENTER

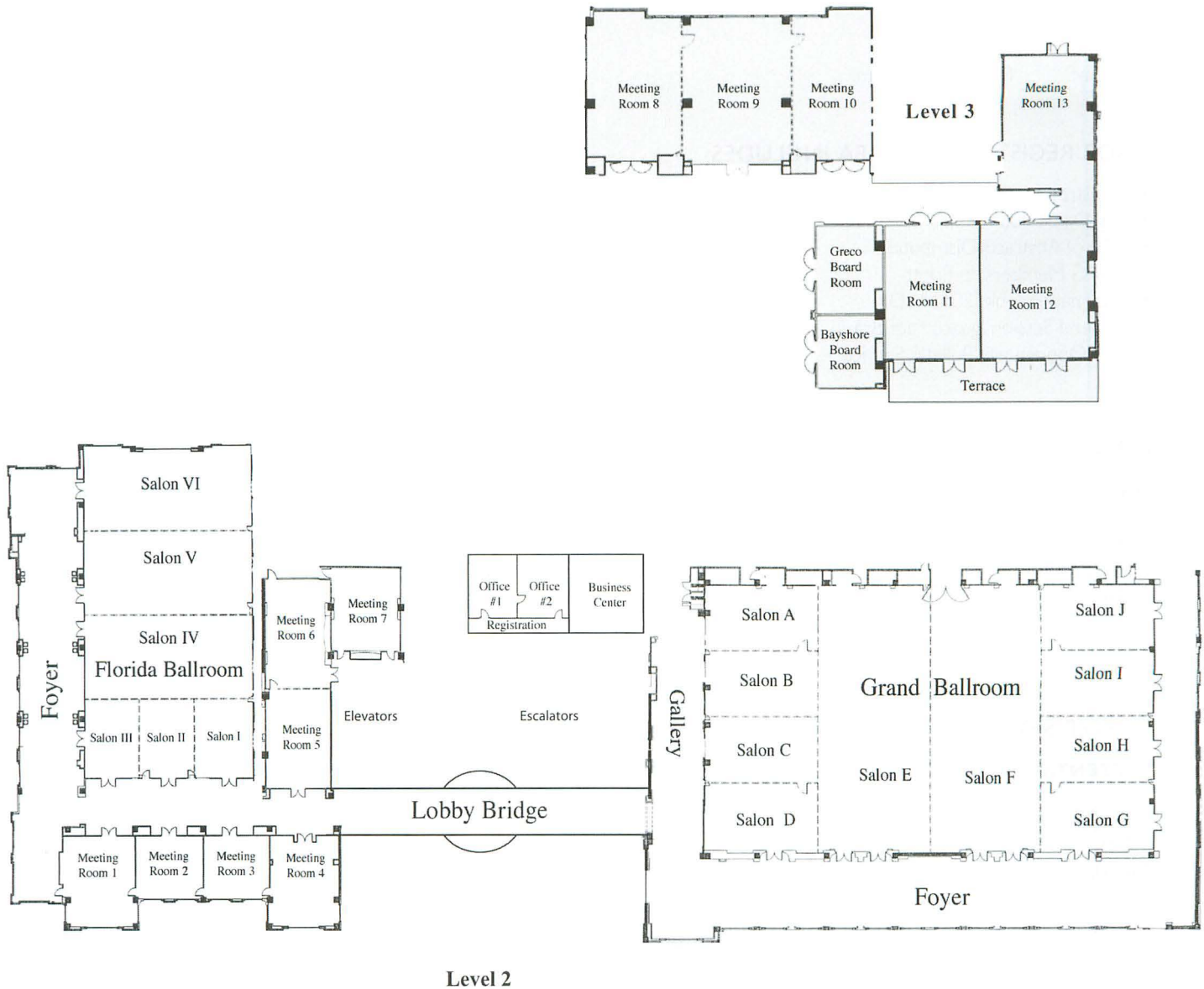
SECOND AND THIRD FLOORS

FOURTH FLOOR



TAMPA MARRIOTT WATERSIDE HOTEL AND MARINA

FLOOR PLAN



TAMPA CONVENTION CENTER

REGISTRATION HOURS

Tuesday: 2:30 p.m. – 6:30 p.m.
Wednesday: 8 a.m. – 4:30 p.m.
Thursday: 7 a.m. – 5 p.m.
Friday: 7 a.m. – 5 p.m.
Saturday: 8 a.m. – 12:30 p.m.

3M ESPE WI-FI ZONE HOURS (Inside Exhibit Hall)

Thursday: 8 a.m. – 5 p.m.
Friday: 8 a.m. – 5 p.m.
Saturday: 8 a.m. – 11 a.m.

AADR REGISTRATION AREA INCLUDES

- Registration Counters
- Bag Distribution
- USB of Abstracts Distribution
- NSRG Membership Booth
- Information Table: 2012 IADR
General Session Iguaçu Falls, Brazil
- Jobs Opportunity Bulletin Service

EXHIBITION OPEN

Thursday 1 p.m. – 5 p.m.
Friday 9:30 a.m. – 5 p.m.

POSTER PRESENTATIONS

DAY	PRESENTATION #S	POSTERVIEWING	POSTER PRESENTATION TIMES
Thursday	209–417 424–614	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	772–968 974–1166	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	1241–1581	8 a.m. – 11 a.m.	Block #1: 9:45 a.m. – 11 a.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.	11 a.m. – 1 p.m.

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

POSTER SUPPLIES

Please bring your own supplies to mount posters (thumbtacks or push pins). A limited supply of push pins will be available on site from the AADR staff. NOTE: Velcro will NOT adhere to poster boards.

CHRONOLOGICAL LISTING OF SESSIONS

Note: all scientific sessions will be located at the Tampa Convention Center.

SEQ #	GROUP	SESSION TITLE	ROOM	PRESENTATION #
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WEDNESDAY, MARCH 21, 2012

Symposium: 1:30 p.m. – 4 p.m.

1	SYM	In Defense of the Oral Cavity through the Eyes of the General of the Salvation Army: A Tribute to the Memory of Irwin D. Mandel: Scholar, Mentor and Humanitarian	Ballroom D	1
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Hands-on Workshop: 2:30 p.m. – 4 p.m.

2	HOW	Junior Faculty Workshop: The Road to Promotion and Tenure	Room 9	2
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Symposium: 2:30 p.m. – 4 p.m.

3	SYM	Color Research and Application: Silent Transition to Sound Science	Room 13	3
4	SYM	Novel Bioinspired Approaches for Craniofacial Repair and Regeneration	Room 10	4

Oral Session: 2:30 p.m. – 4 p.m.

5	CAR	Cariology: Clinical Studies	Room 20	5 – 10
6	CRAN	Odontogenesis and Root Resorption	Room 15	11 – 16
7	DM	Bond Strength Testing	Room 22	17 – 22
8	DM	Keynote Address and Reliability, Fatigue, and Wear Behavior of Ceramics	Room 25	23 – 27
9	DIA	Diagnostic Sciences I	Room 11	28 – 32
10	M/I	<i>Porphyromonas gingivalis</i>	Room 18	33 – 37
11	OHR	Antimicrobial Agents, Fluoride	Room 21	38 – 42
12	PERIO	Tissue Regeneration and Anti-inflammatory Therapies	Room 19	43 – 47
13	PB	Keynote Address and Pulp Biology: Dental Pain and Inflammation	Room 14	48 – 51
14	THEME	Stem Cell Biology in Craniofacial Tissues I	Room 16	52 – 56

Plenary: 4:15 p.m. – 5 p.m.

15	PL	HIV/AIDS: The Task Continues	Ballroom B-C	57
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THURSDAY, MARCH 22, 2012

Hands-on Workshop: 8 a.m. – 9:30 a.m.

16	HOW	Identifying and Testing Mechanisms of Action in Behavioral and Social Intervention Research	Room 9	58
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Symposium: 8 a.m. – 9:30 a.m.

17	SYM	Rewarding Educational Research: the Scholarship of Teaching and Learning	Room 10	59
18	SYM	What Scaffolds Can Do for You: Their Potential and Pitfalls in Regenerative Dentistry	Ballroom D	60

Oral Session: 8 a.m. – 9:30 a.m.

19	BEHSR	Psychosocial Factors in Oral Health	Room 14	61 – 66
20	CAR	Improving Caries Diagnosis and Susceptibility	Room 20	67 – 72
21	CRAN	Craniofacial Morphogenesis and Dymorphogenesis	Room 15	73 – 76
22	DAR	Dental Anesthesiology Research I	Room 11	77 – 80
23	DM	Adhesives: Quaternary Ammonium Compounds	Room 22	81 – 85
24	DM	Dental Materials: Biocompatibility and Biologic Effects	Room 24	86 – 90
25	DM	Dental Materials – Chemistry, Properties, and Performance	Room 23	91 – 96
26	M/I	Keynote Address and <i>Streptococci</i>	Room 18	97 – 101
27	MT	Bone, Periodontal Ligament, and Stem Cell Biology	Room 16	102 – 107
28	OMS	Oral & Maxillofacial Surgery I	Room 21	108 – 113
29	PTT	Oral Cancer and Wound Healing	Room 13	114 – 119

THURSDAY, MARCH 22, 2012 (CONTINUED)

30	SAL	Keynote Address and Saliva in Health and Disease	Room 12	120 – 124
31	THEME	Stem Cell Biology in Craniofacial Tissues II	Room 25	125 – 129

Plenary: 9:45 a.m. – 10:30 a.m.

32	PL	Personalized Health Care: Opportunities and Challenges for Dentistry	Ballroom B-C	130
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Symposium: 10:45 a.m. – 12:15 p.m.

33	SYM	Building the Oral Health Care Workforce: Multipronged Research on Dental Therapy	Room 10	131
34	SYM	Challenges in Salivary Diagnostics	Room 9	132
35	SYM	Epigenetics of Stem Cells and Development	Room 14	133
36	SYM	Novel Technology for Caries and Hypersensitivity Management	Ballroom D	134
37	SYM	Regenerative Endodontics: Dental Pulp Tissue Engineering? Revascularization?	Room 13	135

Oral Session: 10:45 a.m. – 12:15 p.m.

38	CAR	Cariology: Demineralization-Remineralization Studies	Room 20	136 – 140
39	CRAN	Keynote Address & Loading and Remodeling in the Craniofacial Complex	Room 15	141 – 145
40	DM	Keynote Address and Tooth Whitening	Room 24	146 – 150
41	DM	Bond Durability: Role of MMPs	Room 22	151 – 156
42	DM	Keynote Address and Zirconia Grit-blasting and Aging; Ceramic Chip Resistance and Strengthening	Room 25	157 – 161
43	DM	Physico-mechanical Properties of Flowables and Hybrid Resin-composites	Room 23	162 – 167
44	IMP	Evaluation of Bone-Implant Interface and Restorations	Room 12	168 – 173
45	MT	Enamel Formation and Pathologies	Room 16	174 – 179
46	NEU	Neuroscience I	Room 11	180 – 185
47	OMP	Carcinogenesis I	Room 21	186 – 191
48	PERIO	Periodontal Pathogenesis: Host-Bacteria Interactions	Room 19	192 – 197
49	PROS	Clinical Research	Room 18	198 – 203

Lunch & Learning: 12:15 p.m. – 1:30 p.m.

Ballroom A

Bonding to zirconia
 Collagen Cross-Linking: Modeling Dentin Matrix for Reparative Purposes
 Community Annotation of Salivary Proteins
 Community Clinic Practice Based Research: Deep Caries Treatment Outcomes Experience.
 Degradation mechanisms of polymers for biomedical applications
 Genetic Variation and Caries: Study Design Aspects
 How to Plan a Randomized Clinical Trial Focused on Implant Therapies?
 IADR and FDI Positions on the Potential Phase-down of Dental Amalgam
 Nano-composites. How small is small?
 Novel Biomaterials for Regenerative Dentistry
 Obstructive Sleep Apnea: What It Is and What You Can Do
 Pharmacological Intervention of Periodontal Disease in Geriatric Population
 Publishing in the JDR – Tips for Dental Materials Scientists
 Sealing Caries: Changing paradigms from a Cariology Perspective
 Successful Use of Fiber-reinforced Composites for Chairside Applications
 The Dental Ceramic Revolution: Present and Tomorrow's Materials and Technologies
 The Secret to Understanding Unexpected Failures: Quantitative Fracture Analysis
 Tissue Engineering Scaffolds – A Materials & Biological Overview
 Tooth Slice/Scaffold Model of Dental Pulp Tissue Engineering
 Tooth Surface Loss in Salivary Hypofunction
 Understanding and Assessing Dental Anxiety, Fear, and Phobia
 Visual or Instrumental Shade Selection? Importance of Art and Science

THURSDAY, MARCH 22, 2012 (CONTINUED)

Poster Discussion Session: 2 p.m. – 3:15 p.m.

50	PERIO	Periodontal Disease Epidemiology / Diagnosis (PDS)	Ballroom D	204 – 208
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Poster Session: 2 p.m. – 3:15 p.m.

51	PB	Dental Pulp Stem Cells and Tissue Engineering	East Hall	209 – 218
52	DM	Adhesion of Luting Materials I		219 – 225
53	DM	Strength and Stress in Monolithic and Bilayered Ceramics		226 – 242
54	DM	Light-curing and Mechanical Properties of Resin-composites		243 – 257
55	DM	Dental Materials – Endodontic Materials and Techniques		258 – 268
56	BEHSR	Behavioral, Epidemiologic, and Health Services Research I		269 – 283
57	BEHSR	Behavioral, Epidemiologic, and Health Services Research II		284 – 298
58	EDUC	Investigating Contemporary Students and Their Environment		299 – 306
59	NUT	Nutrition Research		307 – 312
60	CAR	Cariology: Epidemiological and Clinical Studies		313 – 324
61	CAR	Cariology: Dental Erosion		325 – 340
62	IMP	Implant (coating) Biomechanics / Effects of Implant Coatings on Cells and Tissue Response		341 – 352
63	OHR	Manual and Power Toothbrushes		353 – 362
64	MT	Current Topics in Bone Research		363 – 375
65	SAL	Clinical and Therapeutic Implications of Salivary Gland Dysfunction		376 – 386
66	PERIO	Periodontal Microbiology and Host/Bacterial Interactions		387 – 403
67	CRAN	Orthodontic Outcomes		404 – 417

Poster Discussion Session: 3:30 p.m. – 4:45 p.m.

68	DM	Mechanical, Reliability, and Optical Properties of Enamel and Ceramics (PDS)	Ballroom D	418 – 423
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Poster Session: 3:30 p.m. – 4:45 p.m.

69	PROS	Prosthodontics Clinical Research	East Hall	424 – 434
70	DM	Bond Strength in Orthodontics and Adhesive Materials		435 – 457
71	DM	Adhesion-Leakage/Margin Assessments I		458 – 469
72	DM	Color and Appearance I		470 – 484
73	DIA	Diagnostic Sciences II		485 – 496
74	GOR	Geriatric Oral Research		497 – 502
75	BEHSR	Behavioral, Epidemiologic, and Health Services Research III		503 – 517
76	CAR	Cariology: Demineralization and Remineralization Studies I		518 – 525
77	CAR	Cariology: Microbiological Studies		526 – 532
78	M/I	Control of Oral Infection		533 – 548
79	OMS	Oral & Maxillofacial Surgery II		549 – 556
80	PERIO	Periodontal Disease in Diabetics and Obese Subjects/Antibiotics and Periodontal Therapy/ Effects of Exercise on the Periodontium		557 – 568
81	NEU	Neuroscience II		569 – 584
82	OMP	Oral Medicine and Pathology; Saliva		585 – 592
83	CRAN	Craniofacial Anatomy		593 – 614

Plenary: 4 p.m. – 4:45 p.m.

84	PL	AADR NSRG Student Research Group Plenary Session	Room 10	615
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FRIDAY, MARCH 23, 2012

Symposium: 8 a.m. – 9:30 a.m.

85	SYM	Non-fluoride Approaches to Caries Prevention	Ballroom D	616
86	SYM	Scaffolds as Local Delivery Tools in Implant Dentistry and Periodontal Regeneration	Room 9	617
87	SYM	TMJ: Stem Cell Biology and Engineering toward Clinical Translation	Room 10	618

Oral Session: 8 a.m. – 9:30 a.m.

88	BEHSR	Oral Health Interventions: Fidelity, Processes, and Effectiveness	Room 14	619 – 624
89	CRAN	Craniofacial Imaging and Applications	Room 15	625 – 630
90	DM	Luting Procedures	Room 22	631 – 636
91	DM	Restorative Materials – Bond Strength, Fracture Resistance and Bioactivity	Room 25	637 – 642
92	DM	Clinical Studies	Room 24	643 – 648
93	DM	Keynote Address and Polymer-based Materials: Chemistry and Composition	Room 23	649 – 653
94	M/I	Infection	Room 20	654 – 658
95	M/I	Infection Control	Room 19	659 – 664
96	MT	Keynote Address and Dentin Formation and Pathology	Room 16	665 – 669
97	NPBR	Practice Based Research Outcomes	Room 12	670 – 675
98	PROS	Digital Dentistry	Room 18	676 – 681
99	PB	Dentinogenesis: Mechanisms and Therapies	Room 13	682 – 686

Plenary: 9:45 a.m. – 10:30 a.m.

100	PL	Regenerative Medicine and Organ Replacement Therapy	Ballroom B-C	687
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Hands-on Workshop: 10:45 a.m. – 12:15 p.m.

101	HOW	Publishing Your Manuscript – a JDR Perspective	Room 13	688
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Symposium: 10:45 a.m. – 12:15 p.m.

102	SYM	30 Years and Counting: The Past, Present and Future of the NSRG	Room 9	689
103	SYM	Guided Stem Cell Differentiation for Dental Tissue Regeneration	Room 10	690

Oral Session: 10:45 a.m. – 12:15 p.m.

104	CAR	Caries Microbiology	Room 20	691 – 696
105	CRAN	Orthodontic Appliance and Treatment Effects	Room 15	697 – 702
106	DM	Update on Light-curing Units and CAD/CAM Technology	Room 25	703 – 706
107	DM	Keynote Address and Bonding to Ceramic and Zirconia	Room 23	707 – 711
108	DM	Adhesion – Leakage/Margin Assessments II	Room 22	712 – 717
109	EDUC	Current Issues in Dental Education	Room 11	718 – 723
110	IMP	Implant Surface Modifications / Peri-implant Pro-inflammatory Mediators	Room 12	724 – 729
111	M/I	Immunity	Room 18	730 – 735
112	MT	Current Topics in Bone Research	Room 16	736 – 741
113	OHR	Dentifrices	Room 21	742 – 747
114	PERIO	Markers of periodontal disease progression / Metabolic Disease	Room 19	748 – 753
115	THEME	Gene-environment Interactions and Epigenetics in Oral Diseases	Ballroom D	754 – 758

Hands-on Workshop: 1 p.m. – 5:30 p.m.

116	HOW	NIDCR Essentials in Grant Writing	Room 13	759
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Poster Discussion Session: 2 p.m. – 3:15 p.m.

117	CAR	Cariogenicity, Caries Detection, and Risk Assessment (PDS)	Ballroom D	760 – 764
118	IMP	Peri-implant Bone Healing and Remodeling / Effect of BMP-2 and Surface Microtopography (PDS)	Room 25	765 – 771

FRIDAY, MARCH 23, 2012 (CONTINUED)

Poster Session: 2 p.m. – 3:15 p.m. East Hall

I19	PB	Pulp Biology: Mechanisms and Therapies		772 – 779
I20	DM	Adhesives, Bond Strength, and Durability		780 – 800
I21	DM	Clinical Studies		801 – 808
I22	DM	Dental Materials: Biocompatibility and Biologic Effects		809 – 825
I23	DM	Dental Materials: Polymer-based Materials – Chemistry and Composition		826 – 838
I24	DM	Glass Ionomers and Prosthetic Materials		839 – 852
I25	DM	Shrinkage Phenomena and Wear in Resin-composites		853 – 867
I26	BEHSR	Behavioral, Epidemiologic, and Health Services Research IV		868 – 882
I27	EDUC	Curriculum Issues and Teaching Methods: Emerging Research Findings		883 – 895
I28	DAR	Dental Anesthesiology Research II		896
I29	OHR	Oral Hygiene Care		897 – 907
I30	MT	Enamel Formation and Pathologies.		908 – 919
I31	M/I	Streptococcal Species		920 – 937
I32	OMP	Cancer		938 – 950
I33	CRAN	Bone, TMJ, and Orofacial Function		951 – 968

Poster Discussion Session: 3:30 p.m. – 4:45 p.m.

I34	DM	Light Curing and Polymerization of Resin-composites (PDS)	Ballroom D	969 – 973
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Poster Session: 3:30 p.m. – 4:45 p.m. East Hall

I35	EBD	Evidence-based Dentistry Network		974 – 975
I36	NPBR	Network for Practice-based Research		976 – 979
I37	PROS	Prosthodontics Applied Research		980 – 993
I38	DM	Adhesion of Luting Materials II		994 – 1008
I39	DM	Adhesion Studies and Adhesive Properties		1009 – 1022
I40	DM	Viscoelastic and Biological properties of Polymeric Restorative Materials		1023 – 1035
I41	DM	Metal-based Materials		1036 – 1042
I42	DM	Dental Materials – Resin-based Composites and Glass Ionomers		1043 – 1048
I43	DM	Color and Appearance II		1049 – 1063
I44	BEHSR	Behavioral, Epidemiologic, and Health Services Research V		1064 – 1077
I45	CAR	Cariology: Fluoride and Ca-based Products I		1078 – 1095
I46	MT	Dentin Formation and Pathology.		1096 – 1107
I47	SAL	Salivary Gland Structure and Function		1108 – 1118
I48	M/I	Mechanisms of Periodontal Pathogens		1119 – 1130
I49	OMS	Oral & Maxillofacial Surgery III		1131 – 1137
I50	PERIO	Bone and Soft-tissue Healing/Devices to Enhance Mechanical Debridement		1138 – 1151
I51	CRAN	Cell Biology, Tissue Engineering, and Wound Healing		1152 – 1166

SATURDAY, MARCH 24, 2012

Symposium: 8 a.m. – 9:30 a.m.

I52	SYM	Metabolomics: Its Use to Study Oral Disease and Beyond	Room 13	1167
I53	SYM	Periodontal/Peri-implant Wound Healing Research — Current Trends	Room 9	1168
I54	SYM	Where and How to Get Extra Teeth	Room 10	1169

Oral Session: 8 a.m. – 9:30 a.m.

I55	BEHSR	Oral Health Impacts and Inequalities	Room 14	1170 – 1175
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SATURDAY, MARCH 24, 2012 (CONTINUED)

156	CAR	Cariology: Fluoride and Ca-based Products II	Room 20	1176 – 1181
157	CRAN	Suture and Bone: Biology and Genetics	Room 15	1182 – 1187
158	DM	Color and Appearance (esthetics): Hard and Soft Dental Tissues and Restorative Materials	Room 25	1188 – 1193
159	DM	Self-etch Adhesives	Room 22	1194 – 1199
160	DM	Reinforced Resin-composites and Impression Materials	Room 23	1200 – 1205
161	OMP	Carcinogenesis II	Room 21	1206 – 1211
162	PERIO	Periodontal Pathogenesis: Molecular Mechanisms	Room 19	1212 – 1217
163	PROS	Fixed Prosthodontics	Room 16	1218 – 1223
164	SAL	Keynote Address and Salivary Gland Development and Function	Room 11	1224 – 1228
165	THEME	Scaffolds for Use in Regenerative Dental Medicine	Room 24	1229 – 1233

Poster Discussion Session: 9:45 a.m. – 11 a.m.

166	BEHSR	Large Scale Oral Health Surveys: Analysis and Findings (PDS)	Room 25	1234 – 1240
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Poster Session: 9:45 a.m. – 11 a.m.

			East Hall	
167	AAHAT	Junior Category		1241 – 1249
168	AAHAT	Senior Category		1250 – 1258
169	AAHAT	Post-doctoral Category		1259 – 1267
170	CAULK	Basic Science		1268 – 1275
171	CAULK	Clinical Science		1276 – 1282
172	PROS	Prosthodontics Basic Research		1283 – 1297

Learn. Network. Connect.

Expand your network through AADR's social networking communities.

The AADR Annual Meeting & Exhibition provides an opportunity for you to learn and network with colleagues. However, if you're looking for additional ways to connect and receive AADR news and information, explore the Association's social networking communities on Facebook, LinkedIn and Twitter, and read the AADR Government Affairs Blog. Get connected today to network and receive AADR breaking news as it happens.



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Use #AADR2012 to tweet about the 2012 AADR/CADR Annual Meeting & Exhibition.

SATURDAY, MARCH 24, 2012 (CONTINUED)

173	DM	Adhesives, Bond Strength, and Durability II		1298 – 1314
174	DM	Wear, Cementation, and Color Space of Ceramics		1315 – 1324
175	DM	Dental Materials: Biocompatibility and Biologic Effects		1325 – 1341
176	DM	Surface Characteristics of Restorative Materials		1342 – 1353
177	DM	Dental Materials – Chemistry, Properties, and Performance		1354 – 1364
178	DM	Dental Materials: Instruments and Equipment		1365 – 1384
179	DIA	Diagnostic Sciences III		1385 – 1397
180	BEHSR	Behavioral, Epidemiologic, and Health Services Research VI		1398 – 1412
181	CAR	Cariology: Demineralization and Remineralization Studies II		1413 – 1424
182	CAR	Cariology: Caries Detection and Risk Assessment		1425 – 1431
183	IMP	Implant-supported Prostheses/Imaging Techniques for Host Bone or Interface Evaluation		1432 – 1444
184	OHR	Dentifrice, Mouthrinses, Antimicrobial Agents		1445 – 1458
185	MT	Bone, Periodontal Ligament, and Stem Cell Biology		1459 – 1472
186	M/I	<i>Candida</i>		1473 – 1479
187	M/I	Immunology		1480 – 1495
188	PERIO	Periodontal Disease Diagnosis and Epidemiology		1496 – 1506
189	PERIO	Periodontal Pathogenesis and Molecular Mechanisms		1507 – 1523
190	PERIO	New Approaches to Treat Periodontal Diseases		1524 – 1534
191	PTT	Pharmacology/Therapeutics/Toxicology		1535 – 1543
192	OMP	Mucosal Disease		1544 – 1552
193	CRAN	Genetics and Epigenetics of Craniofacial Development and Growth		1553 – 1569
194	CRAN	Tooth and PDL Development and Maintenance		1570 – 1581

LEGEND

AAHAT	AADR/Johnson & Johnson Healthcare Products Hatton Awards	MT	Mineralized Tissue
BEHSR	Behavioral, Epidemiologic & Health Services Research	NEU	Neuroscience/TMJ
CAR	Cariology Research	NPBR	Network for Practice-based Research
CAULK	AADR Dentsply /Caulk Competition	NUT	Nutrition Research
CRAN	Craniofacial Biology	OHR	Oral Health Research
DAR	Dental Anesthesiology Research	OMS	Oral & Maxillofacial Surgery
DM	Dental Materials	OMP	Oral Medicine & Pathology
DIA	Diagnostic Sciences	PERIO	Periodontal Research
EDUC	Education Research	PL	Plenary Session
EBD	Evidence-based Dentistry Network	PTT	Pharmacology, Therapeutics & Toxicology
GOR	Geriatric Oral Research	PROS	Prosthodontics Research
HOW	Hands-on Workshop	PB	Pulp Biology & Regeneration
IMP	Implantology Research	SAL	Salivary Research
M/I	Microbiology/Immunology	SYM	Symposium
		THEME	Theme-based Sessions – <i>New!</i>

MEETING OVERVIEW

MEETING SITE

The scientific sessions, registration, and the commercial exhibition will be held at the Tampa Convention Center, located at

333 South Franklin Street
Tampa, Florida 33602, USA

REGISTRATION

The AADR Registration Area will be located on the second floor in the East Registration Lobby outside of the East Exhibit Hall of the Tampa Convention Center. Registration can be reached by taking escalators from the first floor of the convention center; from outside via the Terrace Walk and directly from the skywalk from the Embassy Suites. Phone: +1.813.274.6913. Registration will be open during the following hours:

Tuesday, March 20:	2:30 p.m. – 6:30 p.m.
Wednesday, March 21:	8 a.m. – 4:30 p.m.
Thursday, March 22:	7 a.m. – 5 p.m.
Friday, March 23:	7 a.m. – 5 p.m.
Saturday, March 24:	8 a.m. – 12:30 p.m.

ACCOMPANYING PERSON(S) (GUESTS)

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

If your accompanying person wishes to hear your presentation, he or she must go to the Meeting Services counter in the registration area on site, purchase a badge for \$50 and receive a special color-coded ribbon. The ribbon 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 session will be required to pay the appropriate full-registrant fee. All accompanying persons may attend the Opening Ceremonies (Wednesday), the Plenary Sessions on Thursday, Friday and Saturday mornings and the Closing Ceremonies (Saturday).

BADGE REPRINT FEE

Admission to all sessions and all other events during the Meeting will be by badge only. Please wear your badge at all times. Guest badges and special color codes for specific sessions will be available at the Meeting Services 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 reprints requested on site. Do not leave your badge in your hotel room.

CELL PHONES AND PAGERS

All cell phones and pagers must be turned OFF or set on "vibrate mode" during sessions.

AADR PHOTOGRAPHY, AUDIO AND/OR 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. 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/or video recordings are strictly prohibited without the written permission of the IADR/AADR Global Headquarters. Any photographs taken by AADR are the property of AADR and may be used in future promotional material and communication pieces.

PROGRAM AND ABSTRACTS

A USB of abstracts, generously sponsored by **Straumann**, will be produced for the AADR meeting delegates (and JDR institutional subscribers). 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. Additional USB's are \$25 each.

The Program and abstracts are available online at www.aadronline.org/aaam.

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 bold-face 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.

CHILD ACCESS TO SESSIONS

Children are allowed access to the exhibition hall **ONLY** during poster presentation/exhibition hours. Children are **NOT** allowed access to the oral session meeting rooms. If you need day care assistance, please contact your assigned hotel to assist with making the necessary arrangements.

SMOKING POLICY

The AADR meeting is a non-smoking meeting.

DRESS CODE

Due to the weather in Tampa in March, 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.

PARTICIPANTS WITH DISABILITIES OR SPECIAL NEEDS

If you have a disability or special need that may have an impact on your participation in the Annual Meeting, please contact the AADR Meetings Department either prior to the meeting or on site to discuss your requirements.

CONTINUING EDUCATION CREDITS

IADR/AADR 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 ADA CERP at www.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. Delegates are responsible for completing the forms accurately and keeping their forms for auditing purposes. (Do NOT return the forms to the AADR.) For questions regarding CERP, please contact Emily Sidla, program manager; at esidla@aadronline.org. Visit www.aadronline.org/aaam to download the CERP form.

JOB OPPORTUNITY BULLETIN SERVICE (JOBS)

A Job Opportunity Bulletin Service, located in the registration area, 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.

AADR ANNUAL MEETING MOBILE APPLICATION

To enhance the meeting experience for delegates, AADR is offering a mobile application for this Annual Meeting & Exhibition. In addition to being able to receive important meeting updates from AADR, the app will give you access to the most up-to-date schedule of events, exhibitor listing, floor plans and more. Using your mobile device, visit www.tripbuilder.com/aadr2012apps to download the app to your device or to view the Web version.

AADR/CADR ANNUAL MEETING SESSION RECORDINGS

AADR is pleased to announce that select symposia will be recorded at this year's Annual Meeting. The recorded sessions will be available online after the meeting. Please visit www.aadronline.org/knowledgecommunity for more information.

TAMPA CONVENTION CENTER

MEETING ROOMS

All scientific sessions will be held in the Tampa Convention Center. Please check the Schedule of Events for the location of specific meetings and functions (see page 9 for the floor plans). You are encouraged to find rooms in which you plan to present or hear presentations well in advance of the times of the functions.

COAT CHECK/LUGGAGE STORAGE

Facilities for coat check and luggage storage will be available at the Tampa Convention Center. Please do not bring your luggage to the meeting rooms. Phone: +1.813.274.6913.

PRESENTER'S NOTE

SPEAKER READY ROOM

The Speaker Ready Room is located in **Room 17** at the Tampa Convention Center and will be open during the following hours:

Tuesday, March 20:	2:30 p.m. – 6:30 p.m.
Wednesday, March 21:	8 a.m. – 4:30 p.m. (peak usage: 8 a.m. – 2 p.m.)
Thursday, March 22:	7 a.m. – 5 p.m. (peak usage: 7 a.m. – noon)
Friday, March 23:	7 a.m. – 5 p.m. (peak usage: 7 a.m. – noon)
Saturday, March 24:	8 a.m. – 11:00 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

AADR 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 in writing BY THE PRESENTER (requests from anyone other than the presenter will not be honored) and submitted online prior to the meeting. 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

2012 DISTINGUISHED LECTURE SERIES SPEAKERS

On Wednesday, Thursday and Friday plenary sessions are scheduled to interest delegates from all Scientific Groups.

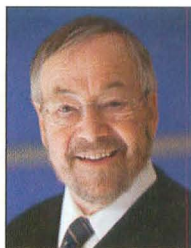
WEDNESDAY, MARCH 21

4:15 p.m. – 5 p.m.

CC – Ballroom B-C

John S. Greenspan

2010 AADR Distinguished Scientist
Award Recipient
University of California, San Francisco
Department of Orofacial Sciences



“HIV/AIDS: The Task Continues”

In the 30 years of the AIDS pandemic, hopes have never been higher, nor needs greater. Basic molecular, cellular and biopharmaceutical science, insights into viable and complex prevention approaches, as well as the political will to act are working together to the extent that control is beginning to be considered possible. Throughout the decades of HIV/AIDS, the oral and related aspects, the roles of oral/craniofacial science and of dental health care workers have been important and will continue to be so. What is the current status of these issues and where can we foresee future research and implementation developments taking us?

THURSDAY, MARCH 22

9:45 a.m. – 10:30 a.m.

CC – Ballroom B-C

Martha J. Somerman

Director, National Institute of
Dental and Craniofacial Research
National Institutes of Health
Bethesda, Md.



“Personalized Health Care: Opportunities and Challenges for Dentistry”

Health care providers have long tailored care based on a patient's environment, behavior and total health history. Over the past decade, with the enhanced rate of scientific discovery, this definition has expanded to consider human genetic variations, as well as molecular applications to restore defective signaling pathway(s) causing disease. With this new knowledge the ability to individualize care to include: preventive, behavioral, environment and biologic that incorporates genomic attributes is becoming a reality. With this reality the U.S. federal National Institutes of Health (NIH) has been supporting major-science initiatives such as

the Encyclopedia of DNA Elements (ENCODE) project, which aims to identify all functional elements in the human genome; the NIH Roadmap Epigenomics Program that seeks to define a parts list of the human genome; the Cancer Genome Atlas, which maps the genetic changes in 20 cancers; and the Therapeutics for Rare and Neglected Diseases (TRND), to enable promising compounds, including targeted therapies, to be taken into the preclinical development phase of the drug development process. This presentation will focus on the likely impact of personalized health care revolution on dental research and on dental practice, by addressing four points: 1) building the personalized revolution, 2) biology-based dentistry, 3) dentistry's expanded healthcare role, and 4) the current barriers to progress. Our profession, collectively and with active dialogue, is well positioned to make major advancements toward providing the critical knowledge required to improve on existing health care models, by offering more precise diagnosis and tailored care that will preempt disease before it manifests clinically.

FRIDAY, MARCH 23

9:45 a.m. – 10:30 a.m.

CC – Ballroom B-C

Anthony J. Atala

Wake Forest University Institute for
Regenerative Medicine
Winston-Salem, N.C.



“Regenerative Medicine and Organ Replacement Therapy”

Patients with diseased or injured organs may be treated with transplanted organs. There is a severe shortage of donor organs which is worsening yearly due to the aging population. Regenerative medicine and tissue engineering apply the principles of cell transplantation, material sciences, and bioengineering to construct biological substitutes that may restore and maintain normal function in diseased and injured tissues. Stem cells may offer a potentially limitless source of cells for tissue engineering applications and are opening new options for therapy. Recent advances that have occurred in regenerative medicine will be reviewed and applications of these new technologies that may offer novel therapies for patients with end-stage tissue and organ failure will be described.

SYMPOSIA

All symposia will take place at the Tampa Convention Center and are open for all to attend. Visit www.aadronline.org/aaam or view the USB for a description of each symposium.

WEDNESDAY, MARCH 21, 1:30 P.M. – 4 P.M.

In Defense of the Oral Cavity Through the Eyes of the General of the Salvation Army: A Tribute to the Memory of Irwin D. Mandel: Scholar, Mentor and Humanitarian

Sponsored by: Salivary Research Group

Organizer: Daniel Fine (New Jersey Dental School - UMD, Newark, USA)

WEDNESDAY, MARCH 21, 2:30 P.M. – 4 P.M.

Color Research and Application: Silent Transition to Sound Science

Sponsored by: Dental Materials, Implantology Research and Prosthodontics Research Groups

Organizers: Sibel Antonson (University at Buffalo, N.Y, USA) and Rade Paravina (University of Texas at Houston, USA)

Novel Bioinspired Approaches for Craniofacial Repair and Regeneration

Sponsored by: Mineralized Tissue Group

Organizer: John Wright (University of North Carolina, Chapel Hill, USA)

THURSDAY, MARCH 22, 8 A.M. – 9:30 A.M.

Rewarding Educational Research: the Scholarship of Teaching and Learning

Sponsored by: Education Research Group in cooperation with ADEA SoTL Sig (Scholarship of Teaching and Learning)

Organizer: Sharon Grayden (University of Michigan, Ann Arbor, USA)

What Scaffolds Can Do for You: Their Potential and Pitfalls in Regenerative Dentistry

Sponsored by: Dental Materials, Implantology Research, Mineralized Tissue, Periodontal Research and Pulp Biology and Regeneration Groups

Organizer: Timothy Watson (King's College London Dental Institute, England, UK)

THURSDAY, MARCH 22, 10:45 A.M. – 12:15 P.M.

Building the Oral Health Care Workforce: Multipronged Research on Dental Therapy

Sponsored by: Behavioral, Epidemiologic and Health Services Research Group

Organizer: Karl Self (University of Minnesota, Minneapolis, USA)

Challenges in Salivary Diagnostics

Sponsored by: Salivary Research Group

Organizers: Daniel Malamud (New York University, New York City, USA) and Walter Siqueira (University of Western Ontario, Canada)



THE UNIVERSITY OF IOWA
COLLEGE OF DENTISTRY
& DENTAL CLINICS

We congratulate the AADR National Student Research Group

on its

30th anniversary!

The University of Iowa College of Dentistry is proud of our relationship with the NSRG and our students and faculty who have been involved —

- 4 NSRG Presidents
- 11 NSRG Officers
- 2 NSRG Faculty Advisors
- 5 Caulk/Dentsply Award Winners



The University of Iowa College of Dentistry is one of nation's best comprehensive dental schools with graduate programs in all dental specialties.

We are especially proud of our commitment to student research including:

- Establishment of a formal dental student research program in 1987
- Travel support for over 500 students to attend AADR/IADR meetings

Epigenetics of Stem Cells and Development

Sponsored by: Mineralized Tissue Group

Organizers: Xianghong Luan (University of Illinois at Chicago, USA) and Cun-Yu Wang (University of California at Los Angeles, USA)

Novel Technology for Caries and Hypersensitivity Management

Sponsored by: Dental Materials Group

Organizers: Bennett Amaechi (University of Texas Health Science Center at San Antonio, USA) and Robert Karlinsey (Indiana Nanotech, Indianapolis, USA)

Supported by: 3M-ESPE

Regenerative Endodontics: Dental Pulp Tissue Engineering? Revascularization?

Sponsored by: Pulp Biology and Regeneration Group

Organizer: Jacques Nör (University of Michigan, Ann Arbor, USA)

FRIDAY, MARCH 23, 8 A.M. – 9:30 A.M.

Non-fluoride Approaches to Caries Prevention

Sponsored by: Behavioral, Epidemiologic and Health Services Research, Cariology Research, Pharmacology/Therapeutics/Toxicology Groups and Evidence-based Dentistry Network

Organizer: James Bader (University of North Carolina, Chapel Hill, USA)

Scaffolds as Local Delivery Tools in Implant Dentistry and Periodontal Regeneration

Sponsored by: Dental Materials, Implantology Research and Periodontal Research Groups

Organizers: Binnaz Leblebicioglu (The Ohio State University, Columbus, USA) and Alpdogan Kantarci (The Forsyth Institute, Boston, Mass., USA)

TMJ: Stem Cell Biology and Engineering Towards Clinical Translation

Sponsored by: Craniofacial Biology, Mineralized Tissue, Oral and Maxillofacial Surgery, and Neuroscience Groups

Organizer: Jeremy Mao (Columbia University, New York City, N.Y., USA)

FRIDAY, MARCH 23, 10:45 A.M. – 12:15 P.M.

30 Years and Counting: The Past, Present and Future of the NSRG

Sponsored by: The AADR National Student Research Group
Organizer: Kaitrin Baloue (University of Illinois - Chicago, USA)

Guided Stem Cell Differentiation for Dental Tissue Regeneration

Sponsored by: Craniofacial Biology, Mineralized Tissue and Pulp Biology and Regeneration Groups

Organizer: Jacques Nör (University of Michigan, Ann Arbor, USA)

SATURDAY, MARCH 24, 8 A.M. – 9:30 A.M.

Metabolomics: It's Use to Study Oral Disease and Beyond

Sponsored by: Oral Health Research Group

Organizer: Virginia Barnes (Colgate-Palmolive Company, Piscataway, N.J., USA)

Periodontal/Peri-implant Wound Healing Research – Current Trends

Sponsored by: Implantology Research and Periodontal Research Groups

Organizers: Alpdogan Kantarci (The Forsyth Institute, Boston, Mass., USA) and Binnaz Leblebicioglu (The Ohio State University, Columbus, USA)

Where and How to Get Extra Teeth

Sponsored by: Craniofacial Biology and Pulp Biology and Regeneration Groups

Organizer: Xiu-Ping Wang (Harvard School of Dental Medicine, Boston, Mass., USA)

HANDS-ON WORKSHOPS

The Hands-on Workshops (HOW) will take place at the Tampa Convention Center. The workshops are complimentary; however, attendance is limited for HOW #1 and 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.aadronline.org/aaam or view the USB for a description of each workshop.

WEDNESDAY, MARCH 21, 2:30 P.M. - 4 P.M.

HOW #1: Junior Faculty Workshop: The Road to Promotion and Tenure

Sponsored by: Behavioral, Epidemiologic and Health Services Research, Education Research Groups and Women in Science Network

Organizer: Anna Dongari-Bagtzoglou (University of Connecticut, Storrs, USA)

THURSDAY, MARCH 22, 8 A.M. - 9:30 A.M.

HOW #2: Identifying and Testing Mechanisms of Action in Behavioral and Social Intervention Research

Sponsored by: Behavioral, Epidemiologic and Health Services Research Group

Organizer: David Clark (NIDCR, Bethesda, Md., USA)

FRIDAY, MARCH 23, 10:45 A.M.-12:15 P.M.

HOW #3: Publishing Your Manuscript – a JDR Perspective

Sponsored by: *Journal of Dental Research*

Organizer: William Giannobile (University of Michigan, Ann Arbor, USA)

FRIDAY, MARCH 23, 1 P.M.-5:30 P.M.

HOW #4: NIDCR Essentials in Grant Writing

Sponsored by: NIDCR

Organizer: Kevin Hardwick (NIDCR, Bethesda, Md., USA)

KEYNOTE SPEAKERS

Each Scientific Group/Network has 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 Tampa Convention Center:

CRANIOFACIAL BIOLOGY

Susan Herring (University of Washington, Seattle, USA)
Do Craniofacial Bones Require Loading?
Thursday, March 22, 10:45 a.m.

DENTAL MATERIALS

Ken Anusavice (University of Florida, Gainesville, USA)
*Models for Prediction of Metal-Ceramic and Ceramic-Ceramic
FDP Reliability and Clinical Performance*
Wednesday, March 21, 2:30 p.m.

Tomaz Kosmac (Jozef Stefan Institute, Ljubljana, Slovenia)
Sandblasting of Dental Zirconia: an Engineering Perspective
Thursday, March 22, 10:45 a.m.

Mutlu Özcan (University of Zurich, Switzerland)
Essentials of Adhesion to Dental Ceramics
Friday, March 23, 10:45 a.m.

Rade Paravina (University of Texas at Houston, USA)
Whitening Research: Pathways to Credible Results
Thursday, March 22, 10:45 a.m.

Jeffrey W. Stansbury (University of Colorado, Denver, USA)
*Intentionally Designed Heterogeneous Polymers: Control of
Structure and Properties*
Friday, March 23, 8 a.m.

MICROBIOLOGY/IMMUNOLOGY

Howard F. Jenkinson (University of Bristol, United Kingdom)
Streptococcus: Pillar of the Community
Thursday, March 22, 8 a.m.

MINERALIZED TISSUE

Chunlin Qin (Baylor College of Dentistry, Dallas, Texas, USA)
*FAM20C (DMP4), a Novel Regulator of FGF23, Plays Critical
Roles in Odontogenesis and Osteogenesis*
Friday, March 23, 8 a.m.

PULP BIOLOGY & REGENERATION RESEARCH

Kenneth M. Hargreaves (University of Texas at
San Antonio, USA)
Pharmacological Regulation of Human Nociceptors
Wednesday, March 21, 2:30 p.m.

SALIVARY RESEARCH

Eva J. Helmerhorst (Boston University, Mass., USA)
The Role of Saliva in Digestion and Gastro-intestinal Health
Thursday, March 22, 8 a.m.

Melinda Larsen (University at Albany, SUNY, N.Y., USA)
Deconstruction and Construction of a Salivary Gland
Saturday, March 24, 8 a.m.

LUNCH & LEARNING

During lunch, you may discuss topics of current interest with the researchers as identified below. There is a \$60 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.aadronline.org/aaam or view the USB for a description of each Lunch & Learning session.

THURSDAY, MARCH 22, 12:15 P.M. – 1:30 P.M.

Location: CC – Ballroom A

Behavioral, Epidemiologic and Health Services Research

Table #1: *Understanding and Assessing Dental Anxiety, Fear, and Phobia*

Speaker: Daniel McNeil (West Virginia University,
Morgantown, USA)

Cariology Research

Table #2: *Genetic Variation and Caries: Study Design Aspects*

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

Craniofacial Biology

Table #3: *Obstructive Sleep Apnea: What It Is and What You Can Do*

Speaker: Allen Firestone (The Ohio State University,
Columbus, USA)

Dental Materials

Table #4: *Bonding to Zirconia*

Speaker: Ulrich Lohbauer (University of Erlangen, Germany)

Table #5: *Collagen Cross-Linking: Modeling Dentin Matrix for
Reparative Purposes*

Speaker: Ana Karina Bedran-Russo (University of Illinois at
Chicago, USA)

Table #6: *Degradation Mechanisms of Polymers for Biomedical
Applications*

Speaker: Carmem Pfeifer (University of Colorado,
Aurora, USA)

Table #7: *IADR and FDI Positions on the Potential Phase-down
of Dental Amalgam*

Speaker: Kenneth Anusavice (University of Florida,
Gainesville, USA)

Table #8: *Nano-composites. How Small is Small?*

Speaker: Nick Silikas (University of Manchester Dental
School, Manchester, England, UK)

Table #9: *Publishing in the JDR – Tips for Dental Materials Scientists*

Speaker: Jack Ferracane (Oregon Health & Science University, Portland, USA)

Table #10: *Sealing Caries: Changing Paradigms from a Cariology Perspective*

Speaker: Margherita Fontana (University of Michigan, Ann Arbor, USA)

Table #11: *Successful Use of Fiber-reinforced Composites for Chairside Applications*

Speaker: Arzu Tezvergil-Mutluay (University of Turku, Finland)

Table #12: *The Dental Ceramic Revolution: Present and Tomorrow's Materials and Technologies*

Speaker: Thomas Hill (Ivoclar Vivadent, Inc, Amherst, N.Y., USA)

Table #13: *The Secret to Understanding Unexpected Failures: Quantitative Fracture Analysis*

Speaker: John Mecholsky (University of Florida, Gainesville, USA)

Table #14: *Tissue Engineering Scaffolds – A Materials & Biological Overview*

Speaker: Marco Bottino (Indiana University, Indianapolis, USA)

Table #15: *Visual or Instrumental Shade Selection? Importance of Art and Science*

Speaker: Allyson Barrett (University of Florida, Gainesville, USA)

Geriatric Oral Research

Table #16: *Tooth Surface Loss in Salivary Hypofunction*

Speaker: Mabi Singh (Tufts University, Boston, Mass., USA)

Implantology Research

Table #17: *How to Plan a Randomized Clinical Trial Focused on Implant Therapies?*

Speaker: Asbjørn Jokstad (University of Toronto, Canada)

Network for Practice-based Research

Table #18: *Community Clinic Practice Based Research: Deep Caries Treatment Outcomes Experience*

Speaker: Nanice Regis Blay (Montefiore Medical Center, Bronx, N.Y., USA)

Pharmacology/Therapeutics/Toxicology

Table #19: *Pharmacological Intervention of Periodontal Disease in Geriatric Population*

Speaker: Medha Singh (Harvard University, Boston, Mass., USA)

Pulp Biology and Regeneration

Table #20: *Novel Biomaterials for Regenerative Dentistry*

Speakers: Venu Varanasi (University of California, San Francisco, USA) and Xiaohua Liu (Baylor College of Dentistry, Dallas, USA)

Table #21: *Tooth Slice/Scaffold Model of Dental Pulp Tissue Engineering*

Speaker: Jacques Nör (University of Michigan, Ann Arbor, USA)

Salivary Research

Table #22: *Community Annotation of Salivary Proteins*

Speaker: William Lau (National Institutes of Health, Bethesda, Md., USA)

STUDENT PLENARY SESSION

THURSDAY, MARCH 22, 2012

4 p.m. – 4:45 p.m. Location: CC – Room 10

AADR NSRG Student Research Group Plenary Session

Sponsor: AADR National Student Research Group

Chair:

Rena D'Souza (Baylor College of Dentistry, Dallas, Texas, USA)

Panelists:

Erin Ealba (University of California - San Francisco, USA)

Donald Chi (University of Washington, Seattle, USA)

Satish Alapati (University of Illinois at Chicago, USA)

MEET-A-MENTOR LUNCHEON – NEW! (for students only), sponsored by Sunstar Americas, Inc.

This new session format is designed to enhance the learning experience for students. Senior scientists, who are also past recipients of the IADR Distinguished Scientist Award and/or past NSRG Mentor Awardees, will lead motivational and realistic discussions about the paths they took during their academic careers. There is a \$20 fee to attend, and attendance will be limited. Assignments will be processed on a first-come, first-served basis. If you purchased your ticket in advance, your ticket will be included in your registration packet. Space permitting, tickets may be sold on site.

FRIDAY, MARCH 23, 12:15 P.M. – 1:45 P.M.

Location: CC – Ballroom A

Table #1 Craniofacial Biology Research

Speaker: Yang Chai (University of Southern California, Los Angeles, USA)

Dr. Yang Chai is the George and MaryLou Boone Professor at the University of Southern California. He serves as the Director of the Center for Craniofacial Molecular Biology (CCMB) and Associate Dean of Research at the Ostrow School of Dentistry University of Southern California. He is most noted for his research on the molecular regulation of cranial neural crest cells during craniofacial development and malformations. Over the years, his laboratory has developed multiple genetically engineered mouse models in order to investigate how craniofacial organs, such as tooth, palate, mandible, maxilla, tongue and calvaria are formed and how tissue-tissue interactions control patterning and morphogenesis.



More recently, his laboratory has significantly expanded their effort in linking animal models with human birth defects and has successfully rescued craniofacial malformations by manipulating signaling pathways during embryogenesis. Dr. Chai has authored more than 100 scientific papers and numerous book chapters. His work has earned him multiple awards including the 2011 IADR Distinguished Scientist Award. He is an elected member of the American Academy of Arts and Sciences (AAAS). He serves on the editorial board of *Developmental Biology* and *Journal of Bone and Mineral Research*. He also serves on the Board of Scientific Counselors at the National Institute of Dental and Craniofacial Research, National Institute of Health. He also serves on NIH study sections and reviews grant applications for the Wellcome Trust and other international research organizations. Dr. Chai earned a D.M.D. degree from Peking University School of Stomatology as well as D.D.S. and Ph.D. in Craniofacial Biology from the University of Southern California.

Table #2 Microbiology/Immunology/NSRG Mentor
Speaker: Luisa A. DiPietro (University of Illinois at Chicago, USA)

Dr. Luisa A. DiPietro is a Professor and the Director of the Center for Wound Healing and Tissue Regeneration at the UIC College of Dentistry. Dr. DiPietro received a D.D.S. degree and a Ph.D. in Immunology from the University of Illinois at Chicago, and completed a general practice residency in dentistry at Michael Reese Hospital in Chicago. Research in the DiPietro laboratory focuses on how wounds heal, with the ultimate goal of developing therapies that will allow humans to regenerate perfect tissue after an injury. Dr. DiPietro's research has been continuously funded by NIH since 1994, and she has been the recipient of more than \$12 million in federal research grants. Dr. DiPietro has served as the primary mentor for 14 graduate students, 19 postdoctoral fellows, and more than 30 short term trainees. She currently directs the UIC Multidisciplinary Oral Sciences Training Program (MOST); this NIH supported program provides research training for graduate students, post-doctoral fellows, and dual degree (D.M.D.-Ph.D.) students. Dr. DiPietro considers the training and mentoring young clinician-scientists to be one of the best parts of her job.



Table #3 NSRG Mentor Award/AADR President-elect
Speaker: Rena D'Souza (Baylor College of Dentistry, Dallas, Texas, USA)

Dr. Rena D'Souza is a Professor and Chair, Department of Biomedical Sciences, Baylor College of Dentistry, Texas A&M Health Science Center; as well as the current President-elect of the AADR. She has been an IADR/AADR member for 26 years and active in the Craniofacial Biology, Mineralized Tissue and Pulp Biology & Regeneration Groups. Dr. D'Souza is the recipient of the 2005 Outstanding Mentor Award from the AADR National Student Research



Group and the IADR Distinguished Scientist Award for outstanding contributions in Pulp Biology Research. She has mentored 50 undergraduate and pre-doctoral D.D.S. trainees, 41 Ph.D. and 5 D.D.S./Ph.D. trainees, and 25 Post-doctoral Research Fellows and Junior Faculty, a number of which have landed in key academic positions. Dr. D'Souza's principal research interests lie in the field of craniofacial development and genetics, with emphasis on the role of transcription factors in regulating epithelial-mesenchymal interactions during tooth morphogenesis. The laboratory has been successful at identifying novel mutations in genes responsible for human syndromic and non-syndromic tooth agenesis and has analyzed how aberrations in gene function contribute to the failure of tooth development. Earlier efforts focused on characterizing the expression profiles of extracellular matrix proteins of dentin, bone, and cartilage during embryogenesis and post-natal life and in analyzing mouse mutant strains that harbor mutations in these structural matrix genes. Recent studies have also explored novel biomimetic and nanostructured tissue engineering approaches for dental regeneration, including the handling and characterization of dental stem cells in novel scaffolds and complex microenvironments. Dr. D'Souza's research has been supported by uninterrupted funding from NIDCR/NIH and other extramural agencies.

Table #4 Pulp Biology & Regeneration
Speaker: Jian (Jerry) Feng (Baylor College of Dentistry, Dallas, Texas, USA)

Dr. Jian Feng is trained as a physician in China, and obtained his Ph.D. from the University of Connecticut. His postdoctoral fellow training is in University of Michigan and San Antonio. He was a faculty member in School of Dentistry in San Antonio and Kansas City. Currently he is a full professor with tenure in Baylor College of Dentistry at Texas A&M Health Science Center. His expertise and background are broad including bone and tooth research in mineralization and pulp biology fields using both animal models (loss of function, gain of function, and mutation) and *in vitro* techniques. His research is well recognized in both dental and bone research communities. He is an author of over 100 of journal articles, including *The Journal of Dental Research*, *Nature Genetics*, *Journal of Cell Biology*, *Journal of Biological Chemistry*, *Molecular and Cellular Biology*, *Developmental Biology*, and *Journal of Bone and Mineral Research*. His contributions in mineralization area have led to awards and recognitions from scientific societies like Dental Research community (William Gies Award, IADR 2005; Keynote speaker of AADR, 2006, IADR Distinguished Scientist), the Bone & Mineral Society (Invited Speaker at the International Sun Valley Workshop on Skeletal Tissue Biology 2005, 2007; Gordon Research Conferences on Small, Integrin-Binding Proteins 2005, 2007; Gordon Research Conferences on Bones and Teeth 2007, 2011; and the 2nd joint International Bone & Mineral Society 2009), the Nephrology Society (Invited Speaker in 2008), and Association of Anatomists (Invited Speaker in 2005, 2008);



Raine Visiting Professor Lecture in University of Western Australia, Australia; as well as awards to his trainees (Web Jee's Young Investigator Award, 2005, 06; ASBMR Young Investigator Award 2005, 06, 08 and 11; and ASBMR Book Award (one award a year to the student with the highest-ranking abstract in the Annual Meeting of American Society of Bone and Mineral Research).

Table #5 Pharmacology/Therapeutics/Toxicology
Speaker: Sharon Gordon (University of Maryland, Baltimore, USA)

Dr. Sharon Gordon is an associate professor in the Department of Oral and Maxillofacial Surgery at the University of Maryland School of Dentistry. She earned a bachelor's degree in biology from the University of North Texas, a D.D.S. from the University of Texas Health Science Center at San Antonio, and completed a two-year General Pediatric Residency at Medical Center Hospital in San Antonio prior to joining the NIH in 1993 as a postdoctoral fellow. While conducting her fellowship she earned an M.P.H. in Epidemiology and Ph.D. in Clinical Investigation, both from Johns Hopkins University. Dr. Gordon is board certified in the specialty of Dental Public Health and conducts clinical, translational, and population-based research on tissue injury and its clinical sequela—pain and healing. In addition to research and teaching, Dr. Gordon also directs the dental school's Graduate Research Education and Training programs and is the dual-degree training program director for the combined D.D.S. programs. Prior to joining UMB, she was a research staff scientist and directed the research training, career development and educational programs at the NIDCR, NIH.



Table #6 Microbiology/Immunology/NSRG Mentor Award
Speaker: Janet Guthmiller (University of North Carolina, Chapel Hill, USA)

Dr. Janet Guthmiller is Associate Dean for Academic Affairs and Associate Professor in the Department of Periodontology at the University of North Carolina – Chapel Hill School of Dentistry. In this role, she oversees all of the educational programs in the School of Dentistry. Previously, she served as full-time faculty at the University of Maryland and the University of Iowa where she was involved with predoctoral and postdoctoral education, maintained a private practice, performed research and directed the nationally recognized Dental Student Research Program at the University of Iowa College of Dentistry. Dr. Guthmiller began her career in dentistry as a dental hygienist. She received her D.D.S. from the University of Iowa College of Dentistry and her Periodontal Certificate and Ph.D. in Cellular and Structural Biology from the University of Texas Health Science Center in



San Antonio, Texas as a part of the NIH-sponsored Dentist-Scientist Program. Dr. Guthmiller's NIDCR funded research programs have encompassed molecular biological studies of periodontal pathogens and expression and function of innate antimicrobials. She has co-edited a book and published four book chapters and numerous manuscripts and abstracts. Dr. Guthmiller has been the recipient of collegiate, university and national teaching and mentoring awards, including the Faculty Mentor of the Year from the National Student Research Group of the AADR in 2007. She is a Diplomate of the American Board of Periodontology and a Fellow in the International College of Dentists and American College of Dentists. She has served on numerous national committees and has presented her research as well as clinical programs nationally and internationally. Dr. Guthmiller has mentored over 35 students, many whom have received national research and leadership recognition.

Table #7 Periodontal Research/ NSRG Mentor Award
Speaker: Roger B. Johnson (University of Mississippi, Jackson, USA)

Dr. Roger B. Johnson, D.D.S., Ph.D., is currently professor of anatomy at the University of Mississippi Medical Center, Jackson. He is the course coordinator for dental gross anatomy and faculty advisor for the student research group. He has previously served on the faculty of the University of Manitoba Faculty of Dentistry, Winnipeg, Manitoba. Dr. Johnson is interested in the study of inflammation and has mentored many students and faculty during the past 30+ years of research activity. Dr. Johnson has been principal investigator for many grants, including studies of effects of microgravity on bone (NASA), development of a dental diet for dogs and cats (IAMS, Procter and Gamble), and the role of estrogen in inflammation (NIDCR). He has served as faculty sponsor for several students in the AADR/ADEA Academic Careers Fellowship program and received the National Student Research Group Mentor Award in 2009. He is also a member of the advisory group for the Hinman Student Research Symposium, held annually in Memphis, Tennessee. Dr. Johnson is married to Dr. Dona Lee Andrew, who shares his interest in student research.



Table #8 Research in Biological Mineralization
Speaker: Paul Krebsbach (University of Michigan, Ann Arbor, USA)

Dr. Paul Krebsbach is the Roy H. Roberts Professor of Dentistry and Professor of Biomedical Engineering, and Chair of the Department of Biologic and Materials Sciences in the School of Dentistry. He received a DDS degree from the University of Minnesota, and a certificate in Periodontology and Ph.D. in Biomedical



Sciences from the University of Connecticut Health Center: Prior to joining the faculty at the University of Michigan, he was a Senior Staff Fellow for 3 years at the NIDCR. His research program focuses on the cell and molecular biology of mineralized tissues with an emphasis on gene therapy-directed osteogenesis and bone marrow stromal cell biology. Dr. Krebsbach has served on many local and national committees, including chairing the IADR/AADR William J. Gies Award Committee and the AADR and IADR Hatton Award Committees, a term on the AADR Constitution Committee and serving on the AADR Board of Directors for 3 years as Treasurer. He served on the American Association for the Advancement of Science Electorate Nominating Committee and completed a term as Member at Large. He currently is a chartered member of the Moss IRB Musculoskeletal Tissue Engineering study section. He is on the editorial boards of the *Journal of Bone and Mineral Research* and the *International Journal of Oral and Maxillofacial Surgery*. He has organized IADR symposia, and chaired both the Midwest Tissue Engineering Consortium and 9th International Conference on the Chemistry and Biology of Mineralized Tissues.

Table #9 Dental Materials/ NSRG Mentor Award
Speaker: Gerard Kugel (Tufts University, Boston, Massachusetts, USA)

Dr. Gerard Kugel is Associate Dean for Research, and Professor of Prosthodontics and Operative Dentistry at Tufts University School of Dental Medicine. With an expertise in Clinical Research and Esthetic Dentistry, he is a reviewer for *The New England Journal of Medicine*, *JADA*, *The Journal of Dental Materials*, and the *Journal of Dentistry*. He is on the Editorial Board of the *Journal Esthetics & Restorative Dentistry*, *The Journal of Cosmetic Dentistry*, and *Compendium* and he is Editor-in-Chief of *Inside Dentistry*. He is a Fellow in the American and International Colleges of Dentistry as well as the Academy of General Dentistry and the Academy of Dental Materials. Dr. Kugel is on the Board of Directors of the CRA Foundation, and has his M.S. in Anatomy and Cellular Biology and his Ph.D. in Dental Materials. He received his Executive Certificate in Management from the MIT Sloan School of Business in 2009. Dr. Kugel has published over 120 articles and over 200 abstracts in the field of restorative materials and techniques. He was given over 300 lectures both nationally and internationally. Dr. Kugel is part of a group practice, the Boston Center for Oral Health, located in Back Bay, Boston.

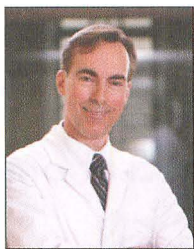


Table #10 Dental Materials Research
Speaker: Sally Marshall (University of California, San Francisco, USA)

Dr. Sally Marshall is Vice Provost, Academic Affairs (2005-present) and Distinguished Professor, Biomaterials and Bioengineering, Preventive and Restorative Dental Sciences (1987-present). Her education is from Northwestern University (B.S. in Science Engineering; Ph.D. in Materials Science & Engineering). Prior to joining UCSF she was a faculty member at Northwestern University in the Biological Materials Department. Dr. Marshall was PI on NIH grants for over 30 years including 17 years for a program project. While in her administrative role she continues as a Co-I. She has more than 150 peer-reviewed publications, more than 15 book chapters, 4 patent disclosures, one patent, and over 300 abstracts. Her research interests center on the relationship between structures, properties and mechanisms in biomaterials, particularly calcified tissues and their interfaces and implant materials. Her major expertise is in x-ray scattering by materials and atomic force microscopy for microstructural and mechanical properties characterization. She was the winner of the 2010 IADR Wilmer Souder Award.



Table #11 H. Trendley Dean Award – Epidemiology and Public Health
Speaker: Scott L. Tomar (University of Florida, Gainesville, USA)

Dr. Scott Tomar is a Professor in the Department of Community Dentistry and Behavioral Science at the University of Florida College of Dentistry. Among his major research interests are the epidemiology and health effects of tobacco use; understanding and eliminating disparities in oral health; oral health surveillance; and facilitating access to prevention and treatment services for vulnerable populations. Dr. Tomar is Past President of the American Association of Public Health Dentistry (AAPHD) and the Behavioral, Epidemiologic and Health Services Research Group of the International Association for Dental Research (IADR), and former editor-in-chief of the *Journal of Public Health Dentistry*. He currently serves as a member of the Public Health Advisory Committee to the American Dental Association and as a Councilor of the American Public Health Association's Oral Health Section. Locally, he chairs the Alachua County (FL) Oral Health Coalition and directs a school-based dental sealant program. Dr. Tomar has received a number of awards, including IADR's H. Trendley Dean Distinguished Scientist Award and AAPHD's Distinguished Service Award. Dr. Tomar serves as a consultant to numerous international, national, state, and local agencies. He received his B.A. and D.M.D. degrees from Temple University, M.P.H. degree from Columbia University, and certificate in Dental Public Health and Dr.P.H. degree in Oral Epidemiology from The University of Michigan. Dr. Tomar is a diplomate of the American Board of Dental Public Health.



SPECIAL EVENTS

NEW MEMBER & FIRST-TIMER ORIENTATION RECEPTION

WEDNESDAY:

1:30 p.m. – 2:30 p.m. CC- Room 1

All new members and first-timers at the Annual Meeting are invited to attend the reception. 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, Sections or Divisions within IADR/AADR, please join us for refreshments.

3M ESPE WI-FI ZONE

THURSDAY – SATURDAY, MARCH 22–24

Thursday: 8 a.m. – 5 p.m.

Friday: 8 a.m. – 5 p.m.

Saturday: 8 a.m. – 11 a.m.

3M ESPE will provide a Wi-Fi Zone located in the Exhibit Hall. Computer stations will be set with Internet access for delegates to check their email or browse the Web in the Exhibit Hall. Admission is free and all meeting participants are invited to visit at their convenience. The Wi-Fi Zone will be open during the poster viewing, Thursday through Saturday.

OPENING CEREMONIES & AWARDS PROGRAM, FOLLOWED BY THE WELCOME RECEPTION

WEDNESDAY:

5:15 p.m. – 7 p.m. CC- Ballroom B-C and Riverwalk (outdoors)

DENTAL MATERIALS GROUP RECEPTION

WEDNESDAY:

7 p.m. – 9 p.m. Tampa Bay History Center (ticket required)

CADR ACTIVITIES

THURSDAY:

5:30 p.m. – 6:30 p.m. CADR Annual General Meeting (AGM)
CC, Room 21

6:30 p.m. – 8 p.m. CADR Reception
CC, Room 19

CLOSING CEREMONIES & AWARDS PROGRAM

SATURDAY

11:15 a.m. – 12:30 p.m. CC- Ballroom C

GROUP/NETWORK BUSINESS MEETINGS & RECEPTIONS

BUSINESS MEETINGS

Behavioral, Epidemiologic
& Health Services Research

—

Cariology Research

Thursday, 5 p.m. – 6 p.m., CC, Room 18

Craniofacial Biology

Thursday, 5 p.m. – 6 p.m., CC, Room 23

Dental Materials

—

Evidence-based Dentistry

Thursday, 5:30 p.m. – 6:30 p.m., CC, Room 25

Geriatric Oral Research

Friday, 5 p.m. – 6 p.m., MH, Meeting Room 5

Mineralized Tissue

—

Oral Medicine & Pathology

—

Oral & Maxillofacial Surgery

Friday, 4:30 p.m. – 5 p.m., CC, Room 15

Pharmacology/Therapeutics/
Toxicology Research

Thursday, 5 p.m. – 6 p.m., CC, Room 16

Pulp Biology & Regeneration

—

Women in Science

Thursday, 12:15 p.m. – 1:30 p.m., Room 37

RECEPTIONS

Thursday, 6 p.m. – 7 p.m.,* CC, Room 6

—

Thursday, 6 p.m. – 8 p.m.,# CC, Room 22

Wednesday, 7 p.m. – 9 p.m.,
Tampa Bay Historical Center (ticketed event)

Thursday, 5:30 p.m. – 6:30 p.m., CC, Room 25

Thursday, 6 p.m. – 7 p.m.,* CC, Room 6

Thursday, 6 p.m. – 8 p.m.,# CC, Room 22

Thursday, 5 p.m. – 7 p.m., CC, Room 24

—

—

Thursday, 6 p.m. – 8 p.m., # CC, Room 22

NOTE: Groups/Networks not listed are hosting their meetings/receptions at the IADR General Session in Brazil

* Joint Receptions

Joint Receptions

AADR NSRG 30TH ANNIVERSARY RECEPTION

WEDNESDAY:

6:30 p.m. – 7:30 p.m. Sponsored by Aegis Communications.

AADR NATIONAL STUDENT RESEARCH GROUP BUSINESS MEETING & RECEPTION

The AADR National Student Research Group (NSRG) will hold its business meeting on Thursday, March 22, at 5 p.m. in the Marriott Hotel, Florida Ballroom. All student members and non-members are encouraged to attend, as are SRG faculty advisors. The business meeting will include the presentation of numerous awards, including the 2012 Dentsply/Caulk Student Research Group Awards for the best student presentations at the 2012 Annual Meeting. If you are unable to attend the business meeting, be sure to stop by the NSRG Booth in the registration area to obtain information on becoming more involved in the Association. Following the business meeting, a reception (invitation only) will take place at the Marriott Hotel, Waterside Patio, generously sponsored by DENTSPLY International, from 6 p.m. – 8 p.m.

UNIVERSITY RECEPTIONS

WEDNESDAY:

7 p.m. – 8:30 p.m.
Indiana University School of Dentistry Reception
MH, Florida Ballroom Salon IV

THURSDAY:

6 p.m. – 7:30 p.m.
University of Iowa College of Dentistry Reception
MH, Grand Ballroom Salon A

6 p.m. – 7:30 p.m.
Tufts University School of Dental Medicine Reception
MH, Grand Ballroom Salon B

6 p.m. – 7:30 p.m.
University of Rochester, Eastman Institute for Oral Health Alumni and Friends Reception
MH, Florida Ballroom Salon III

6 p.m. – 8 p.m.
Stony Brook University School of Dental Medicine Reception
MH, Grand Ballroom Salon G

6 p.m. – 8 p.m.
Boston University Reception
MH, Grand Ballroom Salon H

6 p.m. – 8 p.m.
University of Washington Reception
MH, Grand Ballroom Salon I

6 p.m. – 8 p.m.
The Ohio State University College of Dentistry Reception
MH, Meeting Room I

6 p.m. – 8:30 p.m.
University of Michigan Dean's Reception
MH, Grand Ballroom Salon E

6:30 p.m. – 8:30 p.m.
The Forsyth Institute and Harvard University Reception
MH, Florida Ballroom Salon II

6:30 p.m. – 9 p.m.
UCSF School of Dentistry Reception
MH, Pool Deck

7 p.m. – 8:30 p.m.
University of North Carolina School of Dentistry Reception
MH, Meeting Room 4

FRIDAY:

6 p.m. – 7:30 p.m.
University of Minnesota Reception
MH, Meeting Room I

6:30 p.m. – 8 p.m.
NYU College of Dentistry Reception
MH, Meeting Room 4

NIH/NIDCR ACTIVITIES

WEDNESDAY, MARCH 21

9 a.m. – 11:45 a.m.
NIDCR-supported Trainee Poster Sessions
CC: Ballroom A

Noon – 1 p.m.
NIDCR Director's Meeting with Research Trainees and Junior Scientists
CC: Room 5

1 p.m. – 1:45 p.m.
NIDCR Director's Meeting with Dual-Degree Trainees
CC: Room 5

1:45 p.m. – 2:45 p.m.
NIDCR Director's Meeting with Institutional Training Program Directors
CC: Room 5

THURSDAY, MARCH 22

8 a.m. – 9:30 a.m.
Hands-on Workshop #2: Identifying and Testing Mechanisms of Action in Behavioral and Social Intervention Research
CC: Room 9

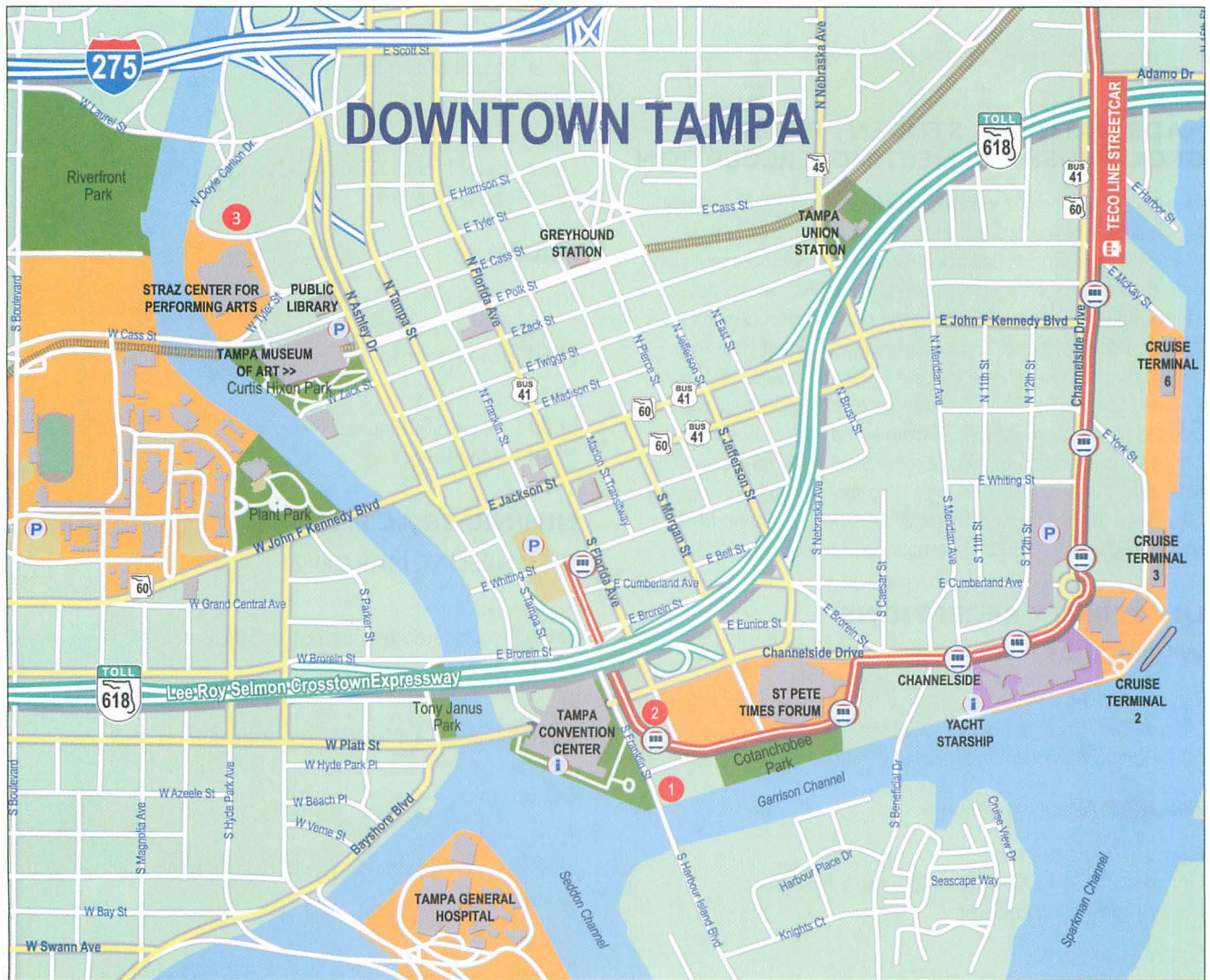
10:45 a.m. – 12:15 p.m.
NIDCR Training and Career Development Opportunities
CC: Room 5

1:30 p.m. – 2:30 p.m.
NIH Peer Review: Overview and What's New
CC: Room 5

FRIDAY, MARCH 23

1 p.m. – 5:30 p.m.
Hands On Workshop #4: NIDCR Essentials in Grant Writing
CC: Room 13

HOTEL MAP



MEETING VENUE

Tampa Convention Center; 333 South Franklin Street

HOTELS

	STREET ADDRESS	TELEPHONE
1. Tampa Marriott Waterside Hotel	700 South Florida Avenue Directly across the street from the Convention Center.	+1.813.221.4900
2. Embassy Suites Tampa – Downtown Convention Center	513 South Florida Avenue Directly across the street from the Convention Center.	+1.813.769.8300
3. Howard Johnson Plaza Tampa-Downtown	111 W Fortune Street 1 mile from the Convention Center. Complimentary shuttle service available.	+1.813.223.1351

BABY SITTING SERVICE

Should you require a babysitter during your stay in Tampa, please contact the concierge at your hotel, since most can arrange the service for you.

LEGEND:

CC: Tampa Convention Center

MH: Marriott Hotel (HQ)

COMPETITIONS

2012 AADR JOHNSON & JOHNSON HEALTHCARE PRODUCTS HATTON AWARDS COMPETITION

Competition Rooms: MH – Meeting Rooms 8, 9, 10
 Judge Deliberation Room: MH – Greco Board Room

WEDNESDAY, MARCH 21

7:30 a.m.	Judges Arrive
8 a.m. – 11:40 a.m.	Oral Presentations (closed-door competition)

JUNIOR Category – MH – Meeting Room 8

Time	Name
8 a.m.	Jonathan An
8:20 a.m.	Jeffrey Goetz
8:40 a.m.	Ross Gordon
9 a.m.	Jeffrey Hajibandeh
9:20 a.m.	Henry Jackson
9:40 a.m.	Break
10 a.m.	Melissa Moreland
10:20 a.m.	Eun-Chee Lee
10:40 a.m.	Marc Manos
11 a.m.	Jenny Sun
11:20 a.m.	Completion – Deliberations Begin

SENIOR Category – MH – Meeting Room 9

Time	Name
8 a.m.	Charles Billington
8:20 a.m.	Haley Echlin
8:40 a.m.	Alfred Griffin
9 a.m.	Junjun Jing
9:20 a.m.	Monica Prasad
9:40 a.m.	Break
10 a.m.	Yinshi Ren
10:20 a.m.	Julia Chang
10:40 a.m.	Matthew Watts
11 a.m.	Yanping Zhang
11:20 a.m.	Completion – Deliberations Begin

POST-DOCTORAL – MH – Meeting Room 10

Time	Name
8 a.m.	Mildred Embree
8:20 a.m.	Megan Falsetta
8:40 a.m.	Chang Lau
9 a.m.	Yaing Liu
9:20 a.m.	Abu Nazmul-Hossain
9:40 a.m.	Break
10 a.m.	Megan Sierant
10:20 a.m.	Andrew Tarr
10:40 a.m.	Janice Yoshizawa
11 a.m.	Hua Zhang
11:20 a.m.	Completion – Deliberations Begin

AADR NATIONAL STUDENT RESEARCH GROUP

2012 DENTSPLY/CAULK COMPETITION

THURSDAY, MARCH 22, 2012

8 a.m. – 8:30 a.m.	Poster Set-up
8:30 a.m. – 9 a.m.	Poster Viewing by Judges
9 a.m. – Noon	Presentations (closed-door competition)
Noon – 12:15 p.m.	Poster Tear-down
12:15 p.m.	Judges' Deliberation

Basic Science Category – Location: CC – Room 1

Board #	Time	Name
#1	9 a.m.	Nisha Mehta
#2	9:20 a.m.	Jireh Yue
#3	9:40 a.m.	Cara Kessler
#4	10 a.m.	Michael Border
Break	10:20 a.m.	
#5	10:40 a.m.	Anne Lindley
#6	11 a.m.	Danielle Larivey
#7	11:20 a.m.	Will Yoder
#8	11:40 a.m.	Amy Au
Poster Tear Down	12 p.m. – 12:15 p.m.	
Completion	12:15 p.m.	Deliberations Begin

Clinical Science Category – Location: CC – Room 3

Board #	Time	Name
#1	9 a.m.	Kelley Gyllenhaal
#2	9:20 a.m.	Ulysses Vargas
#3	9:40 a.m.	Nina Guba
#4	10 a.m.	Jeffrey Rector
Break	10:20 a.m.	
#5	10:40 a.m.	Arthur Jones
#6	11 a.m.	Lauren Paul
#7	11:20 a.m.	Matthew Mason
Poster Tear Down	11:45 a.m. – 12 p.m.	
Completion	12 p.m.	Deliberations Begin

ACKNOWLEDGEMENTS

AADR thanks the following companies for their generous support of the AADR Annual Meeting & Exhibition:



Gold Scientific Session Sponsor

AADR Student Research Fellowships
AADR Distinguished Scientist Award

P&G Professional Oral Health



AADR President's Reception
AADR William B. Clark Fellowship
AADR Student Research Fellowships



Wi-Fi Zone
AADR Student Research Fellowships
Dental Materials Group Reception



HEALTHCARE PRODUCTS
DIVISION OF MCNEIL-PPC, INC.

AADR Past Executives' Business Meeting
AADR Hatton Awards Competition
AADR Student Research Fellowships



AADR Student Research Fellowships



NSRG 30th Anniversary Reception



AADR Student Research Fellowships



AADR NSRG Poster Competition
Awards



AADR NSRG Reception
AADR Student Research Fellowships



IADR Dental Materials
Group Reception



IADR Dental Materials
Group Reception



IADR Dental Materials
Group Reception



Student Fellowship



USB of abstracts



Meet-a-Mentor Luncheon
AADR Student Research Fellowships



Neal W. Chilton Fellowship



IADR Dental Materials Group Reception



more reasons. one source

IADR Dental Materials Group Reception

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AWARDS AND FELLOWSHIPS

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

AADR AWARDS AND FELLOWSHIPS

AADR Irwin D. Mandel Distinguished Mentoring Award: This award was established to provide national recognition for outstanding efforts to foster and promote research training and career development of students, trainees and junior faculty. It is intended to identify individuals at all levels of their career with an exemplary record of mentoring. In 2012, the name of this award was changed in honor of its first recipient, Irwin D. Mandel.

AADR Distinguished Scientist Award: This award is made to recognize and honor outstanding research of particular significance in any of the fields related to oral science. The award is supported by GlaxoSmithKline and is presented every two years.

AADR Honorary Membership: The three most recent living Past Presidents of the AADR may elect an honorary member. This person is not a member of the Association but has made significant contributions to and/or supports dental research.

AADR Jack Hein Public Service Award: This award honors individuals who have given exemplary service in the area of public affairs by consistently promoting the interests and activities of oral health research to a wide constituency.

AADR/Johnson & Johnson Healthcare Products Hatton Awards Competition: The six winners of the AADR competition this year will compete in the IADR/Unilever Hatton Competition & Awards. The awards are supported annually by Johnson & Johnson Healthcare Products.

AADR Neal W. Chilton Fellowship. This AADR Fellowship, sponsored by the Task Force on Design and Analysis in Dental and Oral Research, has been established in memory of Neal W. Chilton. The Fellowship was designed to enable dental clinical faculty to obtain training in clinical research.

AADR Sjögren's Syndrome Foundation Student Fellowship: This Fellowship is offered to encourage research in the field of Sjögren's Syndrome. The Fellowship is generously supported by the Sjögren's Syndrome Foundation.

AADR Student Research Group DENTSPLY/Caulk Competition: This competition is run entirely by the AADR National Student Research Group and is generously supported by the L.D. Caulk Division of DENTSPLY International. First-, second- and third-place winners are selected in two categories: Basic Science and Clinical Science.

AADR William B. Clark Fellowship in Clinical Research: This annual fellowship was established in memory of William B. Clark and is supported by P&G Professional Oral Health, Crest Oral-B. The award recognizes investigators carrying out clinical research in periodontology.

AADR/IADR 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 AADR Annual Meeting and IADR General Session. One paper is selected in each category: Clinical, Biological, and Biomaterials & Bioengineering.

AADR/IADR Journal of Dental Research "Cover of the Year, 2011": 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.

AADR STUDENT RESEARCH FELLOWSHIPS

AADR thanks the following companies and organizations that provided funding for the 2012 Fellowships (number of fellowships supported appears in parentheses):

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Dentsply International (2)
GlaxoSmithKline (2)
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AADR SECTIONS:

Houston
Iowa

IADR SCIENTIFIC GROUPS:

Microbiology/Immunology
Craniofacial Biology
Dental Materials
Mineralized Tissue
Salivary Research

AADR STUDENT RESEARCH FELLOWSHIP RECIPIENTS

PRESENTING AT THE 2012 MEETING

2010

John Bonds – Baylor College of Dentistry
Robert Range – New York University
Robert Vander Broek – University of Michigan
Jeanette Wingate – Medical University of South Carolina

2011

Kristin Evans – University of California, San Francisco
Sean Ghassem-Zadeh – University of Connecticut
William Hackett – University of Maryland
Heather Hendricks – The University of North Carolina at Chapel Hill
Shaina Holman – University of Maryland
Andrew Holpuch – The Ohio State University
Cara Kessler – Baylor College of Dentistry
Justin Kolasa – University of Kentucky
Ramina Sarmicanic – University of California, San Francisco
Blake Warner – The Ohio State University
Janet Zalucha – University of Michigan

Note: See Author Index for presentation times.

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NON-PROFIT & GOVERNMENT MEMBERS

American Dental Association
Centers for Disease Control and Prevention
Friends of the NIDCR
Task Force on Design and Analysis, Inc.

THE EXHIBITION

The Exhibition will be held in the East Exhibit Hall at the Tampa Convention Center. The Exhibit Hours are:

Thursday: 1 p.m. – 5 p.m.
Friday: 9:30 a.m. – 5 p.m.

EXHIBITOR LIST

Exhibitor listing as of 2/17/12

* Denotes AADR Institutional Section Member

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TAMPA CONVENTION CENTER – EAST HALL

EXHIBIT HALL FLOOR PLAN

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POSTERS

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Kuraray
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3M ESPE Wi-Fi Zone
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↑ ENTRANCE ↑

EXHIBITOR DESCRIPTIONS

* Denotes AADR Institution Section Member

COMMERCIAL

3M ESPE Dental Products
St. Paul, Minn., USA
Tel: +1.651.736.2468
Fax: +1.651.736.2729
www.3MESPE.com

Wi-Fi Zone

3M ESPE manufactures and markets more than 2,000 products and services designed to help Dental professionals improve their patients' oral healthcare. Broad-based research and development, education and an uncompromising approach to quality are at the heart of 3M ESPE's commitment to its customers and the worldwide dental community. Driven by ingenuity and a desire to solve customer problems, 3M ESPE has a rich history of business excellence and innovations in dental materials and delivery systems. Through strong, forward-thinking research and development programs, it has earned a reputation for quality and reliability in the products and services it offers the dental profession worldwide. It is a company that is trusted and recognized for setting the standards of success in products, exceeding customer expectations and continued adherence to the highest standard of business ethics.

ADEA
Washington, DC, USA
Tel: +1.202.289.7201
Fax: +1.202.289.7204
www.adea.org

Booth #: 337

The American Dental Education Association (ADEA) is the voice of dental education. Its members include all U.S. and Canadian dental schools and many allied and postdoctoral dental education programs, corporations, faculty, and students. The mission of ADEA is to lead individuals and institutions of the dental education community to address contemporary issues influencing education, research, and the delivery of oral health care for the health of the public. ADEA's activities encompass a wide range of research, advocacy, faculty development, meetings, and communications like the esteemed Journal of Dental Education, as well as the dental school admissions services AADSAS and PASS.

NEW! Advanced Instruments
Norwood, Mass., USA
Tel: +1.781.320.9000
Fax: +1.781.320.3669
www.aicompanies.com

Booth #: 333

Advanced Instruments, Inc. has been a leader in the automated microbiology field for over 30 years. Featured product: The Advanced® Anoxomat™ — a microprocessor-controlled system for creating anaerobic, microaerophilic, and capnophilic environments in jars.

Other products: Autoplate® Spiral Plating System, QCount® bacterial colony counter, and SGE™ for anti-microbial susceptibility testing.

BISCO, Inc.
Schaumburg, Ill, USA
Tel: +1.847.534.6041
Fax: +1.847.891.5049
www.bisco.com

Booth #: 436

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. Included are our flagship dental products such as ALL-BOND® 3 and ACE™ ALL-BOND TE® and SE®, and research tools such as the ACUVOL™, MICRO TENSILE and SHEAR BOND testing systems.

BlueLight Analytics, Inc.
Halifax, Nova Scotia, Canada
Tel: +1.902.407.4242
Fax: +1.902.421.2733
www.curingresin.com

Booth #: 221

BlueLight is the world leading developer of energy measurement systems and services in the field of light cured dental materials.

Colgate-Palmolive Company
New York, N.Y., USA
Tel: +1.212.310.3518
www.colgateprofessional.com

Booth #: 214

Colgate-Palmolive is the global leader in oral care technology, products and education. Colgate's products include technologically advanced toothpastes, toothbrushes, mouth rinses and floss. Our Colgate Oral Pharmaceuticals subsidiary provides professional fluoride, gingival health, tooth whitening, desensitizing, and oral first aid products. Visit our booth for additional information and an overview of our complete line of professional products.

***DENTSPLY**
Abbottstown, Pa., USA
Tel: +1.307.670.4573
Fax: +1.717.259.1655
www.dentsply.com

Booth #: 116

For over a century, DENTSPLY International has been committed to providing the dental community with innovative, high quality, cost effective dental products. From our facilities in 22 nations on six continents, the Company distributes its dental products in over 120 countries under some of the most well established brand names in the dental industry.

Designer Molecules
San Diego, Calif., USA
Tel: +1.858.348.1122
Fax: +1.858.348.1123
www.designermoleculesinc.com

Booth #: 118

Designer Molecules, Inc. has developed a group of products for use in dental applications that include low shrinkage non bis A resins and non phthalate plasticizers.

DMG America
Englewood, N.J., USA
Tel: +1.201.894.5505, ext. 120
Fax: +1.201.816.1812
www.dmg-america.com

Booth #: 220

DMG America is the globally recognized manufacturer of market-leading, quality products including Icon, the revolutionary treatment for incipient caries and white spots, and other innovative dental materials such as Luxatemp Ultra, Honigum and Kolorz.

GC America Inc
Alsip, Ill., USA
Tel: +1.708.926.3008
Fax: +1 708.926.3043
www.gcamerica.com

Booth #: 336

GC America Inc is a leading manufacturer of innovative dental products dedicated to quality and customer satisfaction, with enthusiastic sales and marketing professionals committed to excellence.

***GlaxoSmithKline**
Weybridge, Surrey, UK
www.gsk.com

Booth #: 414

GlaxoSmithKline Consumer Healthcare: Our oral care products include Sensodyne anti-hypersensitivity toothpaste, ProNamel toothpaste formulated to protect against acid wear in adults and children, Biotene Dry Mouth, Polident Denture Cleanser, Super Poligrip denture adhesive, and the Aquafresh family of products.

HPF The Mineral Engineers –
A Division of Quarzwerke Group
Frechen, Germany
Tel: +0049 2234101 411
Fax: +0049 2234101 400
www.hpfminerals.com

Booth #: 434

The Quarzwerke Group is a globally active family-owned company with more than 125 years of experience. The produced mineral products are indispensable in the fields of polymer applications as paints and lacquers, plastics as well as dental impression material and dental composites. MICROSPAR®, SILMIKRON®, SILBOND®, SIKRON®

Instron
Norwood, Mass., USA
Tel: +1.781.575.5690
Fax: +1.781.575.5751
www.instron.com

Booth #: 233

Instron®, a leading provider of testing equipment solutions designed to evaluate mechanical properties of materials and components, produces a range of Electrodynamics Testing Systems and Fatigue Testing Systems which are customized to clamp a dental implant in the correct angular orientation and to remove any lateral constraints.

Ivoclar Vivadent, Inc.
Amherst, N.Y., USA
Tel: +1.716.691.0010
Fax: +1.800.598.4569

Booth #: 121

Ivoclar Vivadent is a market-leading provider of innovative dental materials for quality esthetic dentistry. Ivoclar Vivadent products are used by dental laboratories and dentists in over 100 countries throughout the world.

Journal of Breath Research
Tel: +44.177.929.7481
Fax: +44.117.930.1178
www.publishing.iop.org

Booth #: 317

The *Journal of Breath Research* is dedicated to all aspects of breath science, with a major focus on analysis of exhaled breath in physiology and medicine, and the diagnosis and treatment of breath odours. Editors in Chief: A. Amann, Innsbruck Medical University, Austria; M. Rosenberg, Tel-Aviv University, Israel; <http://iopscience.org/jbr>.

***Johnson & Johnson**
Morris Plains, N.J., USA
www.jnj.com

Booth #: 320

Johnson & Johnson Healthcare Products, makers of Listerine® & Reach®, through its operating companies is the World's most comprehensive and broadly based manufacturer of the health care products, as well as a provider of related services for the consumer, pharmaceutical and medical devices and diagnostic markets.

Kuraray America, Inc.
New York, N.Y., USA
Tel: +1.800.879.1676
Fax: +1.888.700.5200
www.kuraraydental.com

Booth #: 120

Kuraray is known as the inventor of the world's first total-etch system for adhesive bonding, CLEARFIL BOND SYSTEM F. Today, Kuraray continues to use ground-breaking technologies with products such as CLEARFIL SE Bond, in order to enhance the modern day dental practice.

Medotech A/S
Herlev, Denmark
Tel: +45 2992 3226
Fax: +45 86721520
www.grindcare.com

Booth #: 237

GrindCare is a novel bruxism management device. GrindCare works by measuring and analyzing the EMG from the temporalis muscle, and based on the analyzed signal, a contingent electrical stimulation of the exteroceptive reflex path helps break the unhealthy behaviour. GrindCare is developed and manufactured by Medotech A/S.

Microbiology International
Frederick, Md., USA
Tel: +1.800.396.4276
Fax: +1.301.662.8096
www.800ezmicro.com

Booth #: 317

Microbiology International leads the dental industry in laboratory automation and innovation. That's why scientists at leading dental research institutions use our line of oral microbiology laboratory instrumentation, including Anaerobic Workstations, Spiral Platers, Colony Counters, Plate Pourers, Rapid-cycle Autoclaves and more! Visit www.800ezmicro.com for more information.

OraPharma
Warminster, Pa., USA
www.orapharma.com

Booth #: 119

OraPharma, Inc. is a specialty pharmaceutical company that discovers, develops and commercializes therapeutics for the treatment of periodontal disease at various phases of progression. ARESTIN® (minocycline HCl) Microspheres, 1 mg is indicated as an adjunct to scaling and root planing (SRP) procedures for reduction of pocket depth in patients with adult periodontitis.

***P&G Professional Oral Health,**
Crest Oral-B
Cincinnati, Ohio, USA
Tel: +1.513.983.2302
Fax: +1.866.727.2703
www.dentalcare.com

Booth #: 115

Crest® Oral-B® feature a complete line of preventative products including Crest® toothpaste, Oral-B® power and manual brushes, Crest® Whitestrips – Professional Strength, Glide floss and interdental products, as well as office/home use Fluorides and prophy past/angles. Visit the Crest® Oral-B® booth or online at www.dentalcare.com.

Quintessence Publishing Co. Inc.
Hanover, Ill. USA
Tel: +1.630.736.3600
Fax: +1.630.736.3633
www.quintpub.com

Booth #: 215

Quintessence is an international publisher of books, journals and multimedia products, specializing exclusively in Dentistry, featuring the latest titles in all disciplines. Visit our booth to review our many new titles and multimedia products and pickup.

Salimetrics
State College, Pa., USA
Tel: +1.814.234.7748
Fax: +1.814.234.1608
www.salimetrics.com

Booth #: 334

Salimetrics develops innovative salivary assays to aid researchers in the measurement of markers for inflammation, stress and sex hormones. An on-site CLIA laboratory provides testing analysis of salivary biomarkers as well as DNA analysis via SNP and VNTR techniques. The company is based in the US with offices in the UK and distribution worldwide.

SDI (North America) Inc.
Bensenville, Ill., USA
Tel: +1.630.238.8300
Fax: +1.630.238.9200
www.sdi.com/au

Booth #: 230

SDI (North America) Inc. is primarily involved in the research and development, manufacturing and marketing of specialist dental restorative materials, including Tooth Whitening, LED Curing Lights, Bonding and Adhesives, Glass Ionomers, Restoratives, Aesthetics, Composites, Alloys, Amalgams and Amalgamators.

Septodont, Inc.
Lancaster, Pa., USA
Tel: +1.800.872.8305
Fax: +1.717.560.3480

Booth #: 315

Septodont-Worldwide leader in Anesthetics and Anesthetic Accessories. Septodont has also introduced innovative restorative products, such as Biodentine and N'Durance Cristal.

Shofu Dental Corporation
San Marcos, Calif., USA
Tel: +1.760.736.3277
Fax: +1.760.736.3276
www.shofu.com

Booth #: 330

Always an industry leader in finishing, polishing and abrasives, Shofu is well known for its Brownies®, Greenies®, OneGloss®, and SuperSnaps®. Shofu's commitment to excellence carries over to its chemical products and includes BeautiBond®, Beautifil II® and Beautifil Flow Plus®, an all-in-one base, liner and restorative material approved for all indications.

***Sunstar Americas, Inc.**
Chicago, Ill., USA
Tel: +1.800.528.8537
Fax: +1.773.777.1417
www.gumbrand.com

Booth #: 114

Sunstar Americas, manufacturer and distributor of the GUM®, Butler® and GUIDOR® brand is dedicated to offering the highest quality oral care products and supporting the research in the field of oral-systemic health link. Sunstar's products include a comprehensive line of preventive care, pain management, hygiene supplies and clinical products. Visit us at www.gumbrand.com.

Ultradent
South Jordan, Utah, USA
Tel: +1.801.553.4266
Fax: +1.801.572.0600
www.ultradent.com

Booth #: 314

Ultradent is a leading developer of high-tech dental and hygiene materials, devices and instruments worldwide. Ultradent's mission is to improve the level of oral healthcare and to make dental procedures more predictable and hassle-free.

Wiley-Blackwell
Malden, Mass., USA
Tel: +1.781.388.8544
Fax: +1.781.338.8544

Wiley-Blackwell is the international scientific, technical, medical and scholarly publishing business of John Wiley & Sons, with strengths in every major academic and professional field and partnerships with many of the world's leading societies. For more information, please visit www.wileyblackwell.com or <http://onlinelibrary.wiley.com>.

EDUCATIONAL / GOVERNMENT / NON-PROFIT ENTITIES

***The Forsyth Institute**
Cambridge, Mass., USA
Tel: +1.617.892.8201
Fax: +1.617.892.8326
<http://mim.forsyth.org>

Booth #: 321

Forsyth, an independent non-profit organization, is affiliated with Harvard School of Dental Medicine and has collaborations with university and research organizations around the world (www.forsyth.org). The Human Oral Microbe Identification Microarray (HOMIM) allows for detection of about 300 oral bacterial species, including those that have not-yet-been cultivated.

Lutheran Medical Center
Brooklyn, N.Y., USA
Tel: +1.718.630.8224
Fax: +1.718.630.8714
www.lmcdental.com

Booth #: 217

Lutheran Medical Center and its family health center network is the sponsor of six American Dental Association Commission on Dental Accreditation post doctoral residency training programs in general practice; advanced education in general dentistry; pediatric dentistry; endodontics and dental anesthesiology. Through partnerships with federally qualified health centers and others in 13 states and the Caribbean, Lutheran places residents for one or two years in extramural settings. There are presently 150 residents who account for well over 150,000 visits annually to underserved and vulnerable populations. The programs present a major workforce initiative and solution to recruitment and retention issues plaguing many health centers. The didactic curriculum is presented weekly through distance learning via interactive video teleconferencing and other on-line strategies. All programs are accredited by the Commission on Dental Accreditation of the American Dental Association. Lutheran Medical Center is interested in seeking new partners throughout the country interested in this approach to ameliorating access to care issues.

***Medical University of South
Carolina**
Charleston, S.C., USA
Tel: +1.843.792.2327
Fax: +1.843.792.5312
<http://oralhealth.musc.edu>

Booth #: 234

MUSC Training in Craniofacial and Oral Health Research (T-COHR) fosters the development of clinician scientists and scientists focused on oral, dental and craniofacial research. T-COHR provides strong curriculum and thematic research experiences in an integrative framework that emphasizes mentoring, scientific advancement, academic career development, grantsmanship and productivity.

**Minnesota Craniofacial Research
Training (MinnCResT) Program**
Minneapolis, Minn., USA
Tel: +1.612.626.4483
Fax: +1.612.626.2651
www.mncrest.umn.edu

Booth #: 318

The Minnesota Craniofacial Research Training (MinnCResT) Program provides research training, financial support, and career development services to the next generation of independent investigators exploring questions in craniofacial, oral health and dental research.

NIDCR
Bethesda, Md., USA
Tel: +1.240.514.0292
Fax: +1.301.496.9988

Booth #: 126

The mission of the National Institute of Dental and Craniofacial Research (NIDCR) is to improve oral, dental and craniofacial health through research, research training, and the dissemination of health information.

**Smile-on Ltd / University
of Manchester**
London, England, UK
Tel: +44 (0) 20 7400 8989
Fax: +44 (0) 20 7400 8988
www.smile-on.com/msc

Booth #: 332

Smile-on offer a wide range of products and services for corporates and healthcare organizations. These include qualifications, interactive learning courses, websites, events, publications, learning compliance systems, bespoke solutions and mobile applications. Smile-on who are the UK's pre-eminent healthcare education provider and The University of Manchester; one of the top 25 universities in the world, have had the prescience to collaborate in providing an MSC in Restorative & Aesthetic Dentistry. This online two year course provides students with the best of everything — lecturers, online technology, live sessions and support.

***Tufts University**
Boston, Mass., USA
Tel: +1.617.636.2745
Fax: +1.617.636.6511
<http://dental.tufts.edu>

Booth #: 420

TUSDM provides education to diverse predoctoral and postdoctoral students to prepare them for practicing in the 21st century with knowledge of different patient populations, research, and dental specialties. Our research vision is to develop, advance and disseminate knowledge of oral health issues to benefit the profession and society.

***UCLA School of Dentistry**
Los Angeles, Calif., USA
Tel: +1.310.206.8045
Fax: +1.310.825.7609
www.dentistry.ucla.edu

Booth #: 219

UCLA School of Dentistry works to provide information about research opportunities for various levels of students and trainees (pre-and post-doctoral). Programs including the Oral Biology Master's and PhD Program, dual-degree programs, and an NIH-funded T32 mechanism is available.

***The University of British Columbia** **Booth #: 235**
Vancouver, BC, Canada
Tel: +1.604.822.3567
Fax: +1.604.822.3562
www.dentistry.ubc.ca

We offer MSc and PhD graduate programs in Craniofacial Science, either as stand-alone degrees or combined with the clinical specialty of Endodontics, Orthodontics, Pediatric Dentistry, Periodontics, or Prosthodontics. In addition, Oral Medicine/Oral Pathology and General Practice residency programs are available. Visit our booth to learn how you can become a grad/post-grad student, post-doctoral research fellow or visiting scholar/scientist/professor at UBC.

***University of California –**
San Francisco
San Francisco, Calif., USA
Tel: +1.415.502.7772
Fax: +1.415.502.7763
<http://dentistry.ucsf.edu>

Booth #: 331

UCSF School of Dentistry unites investigators to better understand the underlying causes of oral and craniofacial diseases and disorders, and to develop new treatments and strategies for prevention and early intervention. UCSF faculty engages in cutting-edge research leading to scientific breakthroughs that drive the future development of dental education.

***University of Connecticut** **Booth #: 430**
Health Center
Farmington, Conn., USA
Tel: +1.860.679.2552
Fax: +1.860.679.1342
<http://sdm.uchc.edu/researchers/index.html>

Training our future dental research academicians: PhD, DMD combined with PhD, MS in Clinical & Translational Research or MPH, and Post-Doctoral research training is available in Oral and Craniofacial Biology, Skeletal Biology, and Regenerative Engineering of Skeletal Tissues. Support available from NIDCR Institutional Training Grant and other sources.
http://grad.uchc.edu/prospective/programs/phd_biosci/concentration/oral_bio/index.html

***University of Florida –**
College of Dentistry
Gainesville, Fla., USA
Tel: +1.904.392.9778
Fax: +1.352.392.9721
www.dental.ufl.edu

Booth #: 122

Faculty and student representatives of the UF College of Dentistry will discuss aspects of our research and advanced education programs. The purpose of our exhibit is to highlight: 1) facilities at the University of Florida; 2) research at the College of Dentistry; and student opportunities for research and advanced education.

***University of Illinois at Chicago** **Booth #: 432**
Chicago, Ill., USA
Tel: +1.312.996.3465
Fax: +1.312.413.0907
www.dentistry.uic.edu

UIC College of Dentistry offers cutting edge training and research opportunities for predoctoral DMD, PhD and DMD/PhD students as well as postdoctoral research fellows. The College excels at training postgraduate certificate students in the following specialties: Periodontics, Endodontics, Orthodontics, Oral Surgery, Pediatric Dentistry and Restorative Dentistry.

***University of Iowa College**
of Dentistry **Booth #: 335**
Iowa City, Iowa, USA
Tel: +1.313.335.7406
Fax: +1.319.335.8895
www.dentistry.uiowa.edu

The University of Iowa College of Dentistry is one of the leading dental schools in the U.S. Our primary mission is to educate prospective dentists. The College of Dentistry also has advanced education programs in all dental specialties and other advanced programs. Visit our booth for information about our educational and research programs.

***University of Michigan**
Ann Arbor, Mich., USA
Tel: +1.734.764.4726
Fax: +1.734.647.6805
www.dent.umich.edu/academic-programs

The University of Michigan School of Dentistry is committed to training excellent clinicians & leaders in oral health research. Training is offered for DDS, Specialties, PhD degrees (DDS/PhD, MS/PhD & PhD), and Postdoc Training. Supported from NIH, UMSD & other resources.

***University of Missouri-Kansas City** **Booth #: 218**
Kansas City, Mo., USA
Tel: +1.816.235.2070
Fax: +1.816.235.5524
http://dentistry.umkc.edu/oralbiology/default.htm

The University of Missouri-Kansas City School of Dentistry plays a leading role in health sciences and research. Our educational and training programs produce highly trained scientists and clinicians who are equipped to use an evidence-based approach to address critical issues related to oral health.

***University of North Carolina** **Booth #: 416**
Chapel Hill, N.C., USA
Tel: +1.919.843.8072
Fax: +1.919.966.3683
www.dent.unc.edu

The UNC-Chapel Hill School of Dentistry is among the leading public dental schools nationwide. Residents, DDS and allied programs are supported by nine academic departments. State-of-the-art centers and programs promote scholarship in research, education, patient care, and service.

University of Tennessee **Booth #: 232**
College of Dentistry
Memphis, Tenn., USA
Tel: +1.901.448.4879
Fax: +1.901.448.7860

The College of Dentistry of the University of Tennessee Health Science Center provides opportunities for research and advanced training in clinical dentistry and oral biology. The UTHSC College of Dentistry will co-sponsor the Hinman Student Research Symposium the last weekend in October, 2012, at the Peabody Hotel in Memphis, Tennessee.

***University of Washington –** **Booth #: 418**
School of Dentistry
Seattle, Wash., USA
Tel: +1.206.543.5599
Fax: +1.206.685.8024
www.dental.washington.edu

The University of Washington School of Dentistry offers outstanding training opportunities in research and all clinical dental specialties. It also has a unique short-term clinical research training program, a PhD program, and postdoctoral opportunities emphasizing biological, and epidemiologic areas.



FUTURE MEETINGS

2012

April 19

AADR Advocacy Day
Washington, DC, USA
www.aadronline.org/gablog

June 20-23

IADR/LAR General Session & Exhibition
Iguaçu Falls, Brazil
www.iadr.org/iags

Nov. 16-17

5th AADR Fall Focused Symposium:
Translational Genetics - Advancing Fronts for Craniofacial Health
Pittsburgh, Pennsylvania, USA
www.aadronline.org/ffs2012

2013

March 20-23

IADR/AADR/CADR General Session & Exhibition
Washington State Convention Center
Seattle, Washington, USA

2014

March 19-22

43rd Annual Meeting & Exhibition of the AADR
38th Annual Meeting of the CADR
Charlotte, North Carolina, USA

June 25-28

IADR General Session and Exhibition
Cape Town, South Africa

2015

March 11-14

IADR/AADR/CADR General Session & Exhibition
Boston, Massachusetts, USA

www.aadronline.org

SCIENTIFIC PROGRAM

NOTE: * = Presenting Author
S prior to the presentation number indicates Student Presenter

All scientific sessions are located at the Tampa Convention Center.

Seq#: 1 Wednesday, 21 March 2012, 1:30 p.m. – 4 p.m. Symposium, Ballroom D

Symposium – In Defense of the Oral Cavity through the Eyes of the General of the Salvation Army: A Tribute to the Memory of Irwin D. Mandel: Scholar, Mentor and Humanitarian

Chairperson: D. Fine

- 0001** 1:30 p.m. Chair's Opening Remarks.
1:40 p.m. Introductory Remarks.
1:45 p.m. The Beginnings of Salivary Biochemistry and Physiology. L. TABAK* (NIH, Bethesda, MD, USA)
2 p.m. Travels with Rusty, Avraham, Dr. Shugeevsky and the 'gamma globlin'. M. TAUBMAN* (The Forsyth Institute, Cambridge, MA, USA)
2:15 p.m. Immune Systems, Defense and Diagnosis. D. FINE* (New Jersey Dental School – UMD, Newark, USA)
2:30 p.m. Life and Life-Lessons in the Mandel Laboratory: Remembrances of Irwin Mandel and his laboratory. R. STEVENS* (Temple University, Philadelphia, PA, USA)
2:45 p.m. Questions.
3 p.m. Gene Therapy of Salivary Glands. B. BAUM* (NIDCR, Bethesda, MD, USA)
3:15 p.m. Saliva and Innate Immunity. F. OPPENHEIM* (Boston University, MA, USA)
3:30 p.m. Update on Salivary Diagnostics: A Lick and a Promise Fulfilled. D. MALAMUD* (New York University, USA)
3:45 p.m. Sjogren's Syndrome. A. VISSINK* (University Medical Center Groningen, Netherlands)

Seq#: 2 Wednesday, 21 March 2012, 2:30 p.m. – 4 p.m. Hands-on Workshop, Room 9

Hands-on Workshop – Junior Faculty Workshop: The Road to Promotion and Tenure

Chairperson: E. Ioannidou

- 0002** 2:30 p.m. Mentor 1. L. DIPIETRO* (University of Illinois at Chicago, USA)
2:45 p.m. Mentor 2. N. D'SILVA* (University of Michigan, Ann Arbor, USA)
3 p.m. Mentor 3. R. D'SOUZA* (Baylor College of Dentistry, Dallas, TX, USA)
3:15 p.m. Mentor 4. M. MACDOUGALL* (University of Alabama at Birmingham, USA)
3:30 p.m. Mentor 5. M. MINA* (University of Connecticut, West Hartford, USA)

Seq#: 3 Wednesday, 21 March 2012, 2:30 p.m. – 4 p.m. Symposium, Room 13

Symposium – Color Research and Application: Silent Transition to Sound Science

Theme: Transitioning Research Findings to Dental Curricula

Chairperson: R. Paravina

- 0003** 2:30 p.m. Chair's Opening Remarks.
2:30 p.m. Color Science and Dental Art: Permission to Bond. R. PARAVINA* (University of Texas at Houston, USA)
2:50 p.m. In-Office Tooth Whitening – Trends and Traps. J. ONTIVEROS* (University of Texas at Houston, USA)
3:10 p.m. Computer Color Matching (CCM) and Computer Color Searching (CCS). S. NAGAI* (Harvard School of Dental Medicine, Boston, MA, USA)
3:30 p.m. Dental Color Measurement Instruments and Systems. D. NATHANSON* (Boston University, MA, USA)

Seq#: 4 Wednesday, 21 March 2012, 2:30 p.m. – 4 p.m. Symposium, Room 10

Symposium – Novel Bioinspired Approaches for Craniofacial Repair and Regeneration

Theme: Scaffolds for Use in Regenerative Dental Medicine

Chairpersons: E. Beniash and J. Wright

- 0004** 2:30 p.m. NanoCaP Cements for Craniofacial Regeneration. C. SFEIR* (University of Pittsburgh, PA, USA)
2:55 p.m. Biomimetic Controlled Release Systems for Periodontal Regeneration. S. LITTLE* (University of Pittsburgh, PA, USA)
3:20 p.m. Bioinspired Nanomaterials for Bone Tissue Engineering and Repair. L. GOWER* (University of Florida, Gainesville, USA)
3:45 p.m. Discussion.

Seq#: 5 Wednesday, 21 March 2012, 2:30 p.m. – 4 p.m. Oral Session, Room 20

Cariology Research – Clinical and Epidemiological Studies – Cariology: Clinical Studies

Chairpersons: A. Zandona and E. Morou-Bermudez

- 0005** 2:30 p.m. Ureolytic bacteria in dental plaque and caries progression in children. E. MOROU-BERMUDEZ*, A. ELIAS-BONETA, R.J. BILLINGS, R. BURNE, V. GARCIA RIVAS, and E. SUAREZ PEREZ (University of Puerto Rico-MSU, San Juan, USA)
0006 2:45 p.m. Characteristics of Enamel Lesion Restorations Placed by Dental PBRN Dentists. J.L. FELLOWS, V. GORDAN, G. GILBERT, D.B. RINDAL, V. QVIST, M.S. LITAKER, P.L. BENJAMIN, H. FLINK, A. FALCK, D. PIHLSTROM, N. JOHNSON*, and The DPBRN Collaborative Group (University of Minnesota, Robbinsdale, USA)
0007 3 p.m. Deep Caries Treatment in the PEARL Network. M. BOTELLO, D. VENA, D. COLLIE, J. LOZANO-PINEDA*, V. GARZA BALDERAS, F. CURRO, and The PEARL Network (University of Texas Health Science Center, San Antonio, USA)

- 0008** 3:15 p.m. Caries Lesions Progression over 48-months Using ICDAS and Activity Assessment. A. FERREIRA ZANDONA*, E. SANTIAGO, G. ECKERT, and D. ZERO (Indiana University, Indianapolis, USA)
- 0009** 3:30 p.m. DNA-PCR and CRT Results in Children After Probiotic Use. M. CANNON*, B. WALSH, A. VORACHEK, S. KRAMER, and R. ESTERLY (Grove Medical Center, Long Grove, IL, USA)
- 0010** 3:45 p.m. The Chairside Delivery of Focused Microwave Energy for Caries Therapy. G. ARNDT, D. BYERLY, M. SOGNIER, and I. STANGEL* (BioMat Sciences, Bethesda, MD, USA)

Seq#: 6 **Wednesday, 21 March 2012, 2:30 p.m. – 4 p.m.**
Oral Session, Room 15

Craniofacial Biology – Odontogenesis and Root Resorption

Chairpersons: S. Liu and Y. Lu

- 0011** 2:30 p.m. Functional Redundancy of Twist1 and Twist2 in Mouse Development. Y. LU*, S. WANG, H. ZHANG, S.L. WILLIAMS, C. QIN, A. MANSUKHANI, G. MUES, and R. D'SOUZA (Texas A&M Health Science Center, Baylor College of Dentistry, Dallas, USA)
- 0012** 2:45 p.m. Bmp-Wnt Interaction Determines Dental Epithelia Cytodifferentiation through Regulation of EMT. Z. YANG* and F. LIU (Texas A&M Health Science Center, Temple, USA)
- S0013** 3 p.m. Chemerin-ChemR23 Signaling in Tooth Development. T. OHIRA*, D. SPEAR, N. AZIMI, V. ANDREEVA, and P.C. YELICK (Tufts University, Boston, MA, USA)
- S0014** 3:15 p.m. Discrete phosphorylated Retinoblastoma protein isoform expression in mouse tooth development. W. ZHANG*, B. VAZQUEZ, V. ANDREEVA, S. DAISY, K. ELIZABETH, P.W. HINDS, and P.C. YELICK (Tufts University, Medford, MA, USA)
- S0015** 3:30 p.m. Effect of Ultrasound on Severe Orthodontically induced Root Resorption. N. FELEMBAN*, S. AL-DAGHREER, A. GARGOUM, A. SALEEM, and T. EL-BIALY (University of Alberta, Edmonton, Canada)
- 0016** 3:45 p.m. Can Fluoride Prevent Genetically Predisposed Root Resorption in Tooth Movement? S. LIU*, J. SUN, M. FANNING, E.A. MARTINEZ MIER, S. LI, K. KULA, and K. STEWART (Indiana University School of Dentistry, Indianapolis, USA)

Seq#: 7 **Wednesday, 21 March 2012, 2:30 p.m. – 4 p.m.**
Oral Session, Room 22

Dental Materials: Adhesion – Bond Strength Testing and Mechanisms – Bond Strength Testing

Chairpersons: J. Perdigao and P. Monaghan

- 0017** 2:30 p.m. Bond Strength of HEMA-free And HEMA-containing Adhesives Under Pulpal Pressure. M.H. MAHDAN*, M. NAKAJIMA, and J. TAGAMI (Tokyo Medical & Dental University, Japan)
- 0018** 2:45 p.m. Evaluation of a New Universal Adhesive Using Different Bonding Strategies. J. PERDIGAO*, A. SEZINANDO, and P. MONTEIRO (University of Minnesota, Minneapolis, USA)
- 0019** 3 p.m. Microtensile bond strength at the gingival-wall under 15.0 cm/H₂O pressure. A. BURNETT*, J. PURK, and V. DUSEVICH (University of Missouri - Kansas City, USA)

- 0020** 3:15 p.m. Desensitizer Effect on Composite Resin Dentin Shear Bond Strength. L. LE, A. BOGHOSIAN, and P. MONAGHAN* (Sherman Dental Associates, Evanston, IL, USA)
- 0021** 3:30 p.m. In-vivo Microtensile Strength of a Silorane vs. Bis-GMA Adhesive System. J. PURK*, A. KUMAR, and V. DUSEVICH (University of Missouri - Kansas City, USA)
- S0022** 3:45 p.m. Does Simulated Intrapulpal Pressure Affect Adhesives Bonding to Coronal/Radicular Dentin? P. MAHMOUD, H. EL-DEEB, and E. MOBARAK* (Faculty of Oral & Dental Medicine, Cairo, Egypt)

Seq#: 8 **Wednesday, 21 March 2012, 2:30 p.m. – 4 p.m.**
Oral Session, Room 25

Dental Materials: Ceramic-based Materials and Cements – Keynote Address and Reliability, Fatigue, and Wear Behavior of Ceramics

Chairpersons: J. Griggs and K. Anusavice

- 0023** 2:30 p.m. Keynote Address: Models for Prediction of Metal-Ceramic and Ceramic-Ceramic FDP Reliability and Clinical Performance. K. ANUSAVICE* (University of Florida, Gainesville, USA)
- S0024** 3 p.m. Fracture Strength of All-Ceramic Restorations After Fatigue Loading. B. BALADHANDAYUTHAM*, P. BECK, M.S. LITAKER, D. CAKIR, and J. BURGESS (University of Alabama at Birmingham, USA)
- 0025** 3:15 p.m. Cyclic Vs. Monotonic Loading in Determining Fatigue Crack Growth Exponents. G. JOSHI, Y. DUAN, K. ST. JOHN, T. HILL, A. DELLA BONA, and J. GRIGGS* (University of Mississippi, Jackson, USA)
- S0026** 3:30 p.m. Wear of Ceramics and Enamel in artificial chewing simulator. S. JANYAVULA*, S. SINGHAL, D. KOJIC, D. CAKIR, P. BECK, L. RAMP, and J. BURGESS (University of Alabama at Birmingham, USA)
- S0027** 3:45 p.m. Full-Contour Y-TZP Surface Roughness Effect on Wear of Hydroxyapatite. A. SABRAH*, N.B. COOK, P. LUANGRUANGRONG, A. HARA, and M. BOTTINO (Indiana University School of Dentistry, Indianapolis, USA)

Seq#: 9 **Wednesday, 21 March 2012, 2:30 p.m. – 4 p.m.**
Oral Session, Room 11

Diagnostic Sciences – Diagnostic Sciences I

Chairpersons: J. Bouquot and J. Ludlow

- 0028** 2:30 p.m. The Vertical Radiolucency – Fourteen Cemental Tear Cases: Histopathology/Radiology. J. BOUQUOT*, S. MAKINS, S. DORN, and G. BLUM (University of Texas at Houston, USA)
- S0029** 2:45 p.m. Impact of CBCT on Orthodontic Pre-treatment Diagnosis and Treatment Planning. R. HODGES*, S. WHITE, and K. ATCHISON (University of California – Los Angeles, USA)
- 0030** 3 p.m. Prevalence of Root Resorption and Position of Maxillary Canine Impaction. B. YAN*, L. WANG, H. FIELDS, and Z. SUN (Southeast University, Nanjing, China)
- S0031** 3:15 p.m. Comparative Dosimetry of Nomad® Pro Handheld and Wall-mounted X-ray Sources. B. PHILLIPS*, J. LUDLOW, E. PLATIN, and S. MAURIELLO (University of North Carolina, Chapel Hill, USA)
- 0032** 3:30 p.m. Effective doses of NewTom VGi variable volume dental CBCT unit. J. LUDLOW* (University of North Carolina, Chapel Hill, USA)
- 3:45 p.m. Discussion.

Seq#: 10 Wednesday, 21 March 2012, 2:30 p.m. – 4 p.m.
Oral Session, Room 18

Microbiology / Immunology – *Porphyromonas gingivalis*

Chairpersons: R. Spooner and J. Van Hemert

S0033 2:30 p.m. HBD3 Inhibits *Porphyromonas gingivalis* rHagB Binding to Dendritic Cells. J. VAN HEMERT*, E. RECKER, K. WALTERS, A. PROGULSKE-FOX, and K. BROGDEN (University of Iowa, Iowa City, USA)

S0034 2:45 p.m. HBD3-enhanced *Porphyromonas gingivalis* rHagB Cytokine Responses in Dendritic Cells. L. HARVEY*, A. PROGULSKE-FOX, and K. BROGDEN (University of Iowa, Iowa City, USA)

S0035 3 p.m. Sphingolipids and Fatty Acids Alter *Porphyromonas gingivalis* Protein/Lipid Compositions. C. FISCHER*, K. WALTERS, D. DAWSON, D. DRAKE, K. BROGDEN, and P. WERTZ (University of Iowa, Iowa City, USA)

0036 3:15 p.m. *Porphyromonas gingivalis* Dihydroceramide Lipids Recovered in Carotid Atheroma Samples. F. NICHOLS*, J. GALLAGHER, B. BAJRAMI, R. CLARK, and X. YAO (University of Connecticut, W. Hartford, USA)

S0037 3:30 p.m. *Porphyromonas* Infection Upregulates Antioxidant Response in Primary Gingival Epithelial Cells. R. SPOONER*, C. CHOI, J. DEGUZMAN, and O. YILMAZ (University of Florida, Gainesville, USA)

3:45 p.m. Discussion.

Seq#: 11 Wednesday, 21 March 2012, 2:30 p.m. – 4 p.m.
Oral Session, Room 21

Oral Health Research – Antimicrobial Agents, Fluoride

Chairpersons: T. Lisante and C. Galindo-Lartigue

0038 2:30 p.m. Randomized Controlled Trial with Concurrent Plaque and Gingivitis Image Analysis. R. GERLACH*, M.E. RUBUSH, M. BARKER, and A.R. BIESBROCK (Procter & Gamble Company, Mason, OH, USA)

0039 2:45 p.m. In Vivo Antimicrobial Efficacy of Stannous Fluoride. M. ZSISKA, B. PETERSON, J. BUISSON, D. WHITE, and A.A. BAIG* (Procter & Gamble Company, Mason, OH, USA)

0040 3 p.m. Novel Analysis of Gingivitis Scoring in Clinical Trials. T.A. LISANTE*, M.-M. WU, M.W. ARAUJO, and J. GHAIM (Johnson & Johnson, CPPW, Morris Plains, NJ, USA)

0041 3:15 p.m. Improvement in Gingivitis by Essential-oils Containing Mouthrinses: a Secondary Analysis. T.A. LISANTE, C. CHARLES*, M.-M. WU, M.W. ARAUJO, and J. GHAIM (Johnson & Johnson, CPPW, Morris Plains, NJ, USA)

0042 3:30 p.m. Antiplaque/Antigingivitis Efficacy of an Alcohol-Free Essential Oil Containing Mouthrinse. P. AMINI, R. COSTA*, H. SHANG, J. QAQISH, J. GALLOB, and M.W. ARAUJO (Johnson & Johnson Consumer Companies Inc, Morris Plains, NJ, USA)

3:45 p.m. Discussion.

Seq#: 12 Wednesday, 21 March 2012, 2:30 p.m. – 4 p.m.
Oral Session, Room 19

Periodontal Research – Therapy – Tissue Regeneration and Anti-inflammatory Therapies

Chairpersons: D. Hamilton and S. Stipho

0043 2:30 p.m. Emdogain®: Analysis of Bioactive Chemical Mediators Involved in Periodontal Regeneration. S. HARRIS, R. HOLBROOK*, J. GLUHAK-HEINRICH, C. VILLAR, and S. GRUWELL (U.S. Air Force Dental Service, San Antonio, Tx, TX, USA)

0044 2:45 p.m. Comparison Between Two Bone Graft Materials in Bilateral Sinus Augmentation. S. STIPHO*, Y. HUR, T. GRIFFIN, K. AL-HEZAIMI, and P. STARK (Tufts University, Hopkinton, MA, USA)

0045 3 p.m. Analysis of Electrospun Nanofibrous Scaffolds as Matrices for Gingival Reconstruction. D. HAMILTON*, M. MCINERNEY, C. ELLIOTT, X. GUO, and J. GUAN (Schulich School of Medicine and Dentistry, London, Canada)

0046 3:15 p.m. Evaluation of 15d-PGJ2-loaded nanocapsules in periodontitis mouse model. M. NAPIMOGA*, C. DA SILVA, N. DE MELO, T. FARNESI, P. DUARTE, and L. FRACETO (São Leopoldo Mandic Institute and Research Center, Campinas, Brazil)

0047 3:30 p.m. Inhibition of Initiation and Progression of Periodontal Disease by Curcumin. A. SERGAIEVA*, R. WANG, D. TROCHESSET, D.-C. COLOSI, S. LONDON, and L. LONDON (State University of New York – Stony Brook, USA)

3:45 p.m. Discussion.

Seq#: 13 Wednesday, 21 March 2012, 2:30 p.m. – 4 p.m.
Oral Session, Room 14

Pulp Biology & Regeneration Research – Keynote Address and Pulp Biology: Dental Pain and Inflammation

Chairpersons: F. Paula-Silva and J. Nör

0048 2:30 p.m. Keynote Address: Pharmacological Regulation of Human Nociceptors. K.M. HARGREAVES* (University of Texas – San Antonio / Health Science Ctr, USA)

0049 3 p.m. Expression of 5-Lipoxygenase and Cyclooxygenase-2 during Apical Periodontitis Development. F. PAULA-SILVA*, F. SANTOS, L. SILVA, and L. FACCIOLOI (Universidade de São Paulo, Ribeirão Preto, Brazil)

0050 3:15 p.m. TLR2 Signal Is Protective In Periapical Lesion. H. SASAKI*, D. RIDER, S. XU, and A. FUJIMURA (Forsyth Institute, Cambridge, MA, USA)

0051 3:30 p.m. MMP3 Contributes to Development of Periapical Lesions and Healing Response. S. KHALIQ*, R. MENEZES, K. DEELEY, and A. VIEIRA (University of Pittsburgh, PA, USA)

3:45 p.m. Discussion.

Seq#: 14 Wednesday, 21 March 2012, 2:30 p.m. – 4 p.m.
Oral Session, Room 16

Theme: Stem Cell Biology in Craniofacial Tissues I

Chairpersons: J. Ferreira and Z. Lin

S0052 2:30 p.m. Engineering Hydroxyapatite-Gelatin Nanocomposites With MAPC Cells For Calvarium Bone Regeneration. J. FERREIRA*, L. ZHANG, W. HSIEH, F. MALABARI, K. HIGGINS, R. PADILLA, W.-S. HU, and C.-C. KO (University of North Carolina -Chapel Hill, School of Dentistry, Raleigh, USA)

0053 2:45 p.m. Optimizing Gelatin-based Sponges as Stem-Cell Carriers for Mandibular Distraction Osteogenesis. Z. SUN*, B.C. TEE, K. KENNEDY, D.-G. KIM, and E.N.D. LOW (Ohio State University, Columbus, USA)

0054 3 p.m. Oral Mucosa Bioengineered by Bone Marrow-Derived Mesenchymal Stem Cells. H. FOERSTER*, J. WU, R. RAKIAN, Z. LU, and X.-D. CHEN (U.S. Air Force Dental Service, San Antonio, TX, USA)

0055 3:15 p.m. Lmp3 Cooperates With Bmp7 To Promote Bone Regeneration. Z. LIN*, H. RIOS, C.H. PARK, A. TAUT, J. SUGAI, Q. JIN, P. ROBBINS, and W. GIANNOBILE (Harvard University, Boston, MA, USA)

S0056 3:30 p.m. Stem Cell therapy for Periodontal Tissue Regeneration: An in vitro Study. A. MOSHAVERINIA*, C. CHEN, S. SCHRICKER, K. AKIYAMA, S. SHI, and W. CHEE (University of Southern California, Los Angeles, USA)
3:45 p.m. Discussion.

Seq#: 15 Wednesday, 21 March 2012, 4:15 p.m. – 5 p.m.
Plenary, Ballroom B-C

Distinguished Lecture Series/Plenary Sessions – HIV/AIDS: The Task Continues

0057 4:15 p.m. HIV/AIDS: The Task Continues. J. GREENSPAN* (University of California – San Francisco, USA)

Seq#: 16 Thursday, 22 March 2012, 8 a.m. – 9:30 a.m.
Hands-on Workshop, Room 9

Hands-on Workshop – Identifying and Testing Mechanisms of Action in Behavioral and Social Intervention Research

Chairperson: M. Riddle

0058 8 a.m. Mechanisms of Action Workshop. S. CERMAK* (University of Southern California, Los Angeles, USA)

8:20 a.m. Mechanisms of Action Workshop. M. ROBINSON* (University of Florida, Gainesville, USA)

Seq#: 17 Thursday, 22 March 2012, 8 a.m. – 9:30 a.m.
Symposium, Room 10

Symposium – Rewarding Educational Research: the Scholarship of Teaching and Learning

Theme: Transitioning Research Findings to Dental Curricula

Chairperson: S. Grayden

0059 8 a.m. Chair's Opening Remarks.
8:05 a.m. Educational Research in Enhancing Learning, Improving Teaching, Advancing Educational Programs/Curricula. J. KILLIP* (University of Missouri -Kansas City, USA)

8:20 a.m. Education Research: Recognition within the Institution/Health Center. T. DOLAN* (University of Florida, Gainesville, USA)

8:35 a.m. Getting Published — Where to Publish; What Are the Options. C. SHULER* (University of British Columbia, Vancouver, Canada)

8:50 a.m. Promotion and Tenure Process — A Case Study in Negotiating New Territory. L. JOHNSON* (University of Michigan, Ann Arbor, USA)

9:05 a.m. Discussion.

Seq#: 18 Thursday, 22 March 2012, 8 a.m. – 9:30 a.m.
Symposium, Ballroom D

Symposium – What Scaffolds Can Do for You: Their Potential and Pitfalls in Regenerative Dentistry

Theme: Scaffolds for Use in Regenerative Dental Medicine

Chairpersons: J. Mitchell and T. Watson

0060 8 a.m. Nanostructured Bioactive Glasses for Hard Tissue Regeneration and Tissue Engineering. J. MITCHELL* (Oregon Health & Science University, Portland, USA)

8:20 a.m. 3D scaffolds for craniofacial tissue engineering. T.-M.G. CHU* (Indiana University School of Dentistry, Indianapolis, USA)

8:40 a.m. Biologically Active Nanostructured Membranes for Periodontal Tissue Regeneration. M. BOTTINO* (Indiana University, Indianapolis, USA)

9 a.m. Injectable Scaffolds for Dental Pulp Tissue Engineering. J. NÖR* (University of Michigan, Ann Arbor, USA)

Seq#: 19 Thursday, 22 March 2012, 8 a.m. – 9:30 a.m.
Oral Session, Room 14

Behavioral, Epidemiologic, and Health Services Research – Psychosocial Factors in Oral Health

Chairpersons: E. Kateeb and R. Vergotine

S0061 8 a.m. Health Literacy and Dental Fear – Exploring Parents' Responses. W. SHIN*, M.R. ESTRELLA, and M.R. INGLEHART (University of Michigan, Ann Arbor, USA)

S0062 8:15 a.m. Oral Health Considerations: Developmentally Disabled Adults Treated under General Anesthesia. E. STUTIUS*, J. TSAI, W. TAO, P. STARK, and J. MORGAN (Tufts University, Boston, MA, USA)

S0063 8:30 a.m. Caries and Fluorosis Impacts on Oral Health-Related Quality of Life. U. ONORIOBE*, R.G. ROZIER, R. KING, and J. CANTRELL (NC DHHS Oral Health Section, Raleigh, NC, USA)

S0064 8:45 a.m. Psychosocial Factors In Oral Health: Anxiety, Depression and Dental Visit. M. SILVEIRA* and A. CHATTOPADHYAY (University of Massachusetts, Amherst, USA)

0065 9 a.m. Perceived and Normative Dental Health Status of African Children. M. AMIN, A. PEREZ, M. REKABDAR, M. SALEHYAR, and I. KORNERUP* (University of Alberta, Edmonton, Canada)

0066 9:15 a.m. Prenatal Oral Health Knowledge, Perceptions, and Practices. D. CANNELLA*, M. LOBEL, and A. MONHEIT (State University of New York – Stony Brook, USA)

Seq#: 20 Thursday, 22 March 2012, 8 a.m. – 9:30 a.m.
Oral Session, Room 20

Cariology Research – Detection, Risk Assessment and Others – Improving Caries Diagnosis and Susceptibility

Chairpersons: K. Ramalingam and B. Amaechi

0067 8 a.m. Clinical vs. Radiographic Caries Detection in Caries-Active Adults. A. RITTER*, M. RAMOS, F. ASTORGA, D. SHUGARS, and J. BADER (University of North Carolina, Chapel Hill, USA)

0068 8:15 a.m. Clinical Monitoring of White Spot Lesions in Children: 24-Month Data. G. STOOKEY, R. ISAACS, A. NUÑEZ*, V. WHITE, J. WILLIAMS, B. KATZ, S. OFNER, J. WEFEL, and J. HENNETTE (Therametric Technologies, Inc, Noblesville, IN, USA)

S0069 8:30 a.m. Diagnosis of smooth-surface enamel caries using SS-OCT. H. NAKAGAWA*, A. SADR, Sr., Y. SHIMADA, J. TAGAMI, and Y. SUMI (Tokyo Medical & Dental University, Japan)

0070 8:45 a.m. Incipient Caries Detection Using Enhanced White Light And Fluorescence Imaging. B.T. AMAECHI*, J. LOZANO-PINEDA, I.P. CHEDJIEU, and V.C. WONG (University of Texas Health Science Center at San Antonio, USA)

S0071 9 a.m. Evaluation of Fluorescence Imaging with Reflectance Enhancement for Caries Detection. B. AMAECHI, K. RAMALINGAM*, and V. WONG (University of Texas Health Science Center at San Antonio, USA)

S0072 9:15 a.m. Fine Mapping of 14q24.3, a Locus for High Caries Experience. H.-Y. HSIN*, T. SHIMIZU, K. DEELEY, and A. VIEIRA (University of Pittsburgh, PA, USA)

Seq#: 21 Thursday, 22 March 2012, 8 a.m. – 9:30 a.m.
Oral Session, Room 15

Craniofacial Biology – Craniofacial Morphogenesis and Dysmorphogenesis

Chairpersons: M. Govil and S. Beiraghi

S0073 8 a.m. Studies of *Dmp1*-null Condyle Defect. T. KOREN*, Q. ZHANG, S. LIN, K. YAN, Y. LIU, C. QIN, and J.Q. FENG (*Baylor College of Dentistry, Dallas, TX, USA*)

0074 8:15 a.m. Craniofacial Anomalies Associated with Wnt5a and Ror2 Mutations. S. BEIRAGHI*, V. LEON-SALAZAR, A.S. FOK, Y. YINGZI, M. CUNNINGHAM, and M. MAGA (*University of Minnesota, Minneapolis, USA*)

S0075 8:30 a.m. Loss of CRISPLD2 in Zebrafish Causes Craniofacial Anomalies. B. CHIQUET*, Q. YUAN, L. DEVAULT, M. WARMAN, Y. NAKAMURA, E. SWINDELL, and J. HECHT (*University of Texas – Houston/Health Science Center, USA*)

0076 8:45 a.m. CL/P: Utilizing Advanced Analytic Approaches to Identify Etiologic Genes. M. GOVIL*, N. MUKHOPADHYAY, Y. HUANG, W. VALENTINE-COOPER, L. FIELD, A. LIDRAL, J. MURRAY, M. MARAZITA, and V. VIELAND (*University of Pittsburgh, PA, USA*)

9 a.m. Discussion.

Seq#: 22 Thursday, 22 March 2012, 8 a.m. – 9:30 a.m.
Oral Session, Room 11

Dental Anesthesiology Research – Dental Anesthesiology Research I

Chairperson: D. Haas

0077 8 a.m. Pediatric Overweight a Poor Predictor of Anesthesia-related Airway Complications. L. NEWMAN*, S. THIKKURISY, P. CASAMASSIMO, and M. SMILEY (*Nationwide Children's Hospital/The Ohio State University, Columbus, USA*)

0078 8:15 a.m. Number of Sedatives is Associated with Post-Sedation Morbidity in Children. S. TOR*, S. THIKKURISY, S. WILSON, and P. CASAMASSIMO (*Nationwide Children's Hospital/The Ohio State University, Columbus, USA*)

0079 8:30 a.m. Retrospective Review of Dental Local Anesthetic Induced Paresthesia in UK. S. ZAHEDI*, G.A. GARISTO, A.S. GAFFEN, and D.A. HAAS (*University of Toronto, Canada*)

S0080 8:45 a.m. Objective Measurements of Pulpal Anesthesia with a Novel Topical Anesthetic. B. CARN*, C. PANDARAKALAM, D. GOEDDEL, C. HOPP, B. WALKER, and K. ROWLAND (*Southern Illinois University School of Dental Medicine, Alton, USA*)

9 a.m. Discussion.

Seq#: 23 Thursday, 22 March 2012, 8 a.m. – 9:30 a.m.
Oral Session, Room 22

Dental Materials: Adhesion – Bond Strength Testing and Mechanisms – Adhesives: Quaternary Ammonium Compounds

Chairpersons: F. Rueggeberg and M. Cadenaro

0081 8 a.m. Isothermal Monomer Conversion of Model Quaternary-Ammonium-Methacrylate (-Acrylate) Resins. F. RUEGGEBERG*, A. TEZVERGIL-MUTLUAY, S. LOONEY, M. CADENARO, L. BRESCHI, and D. PASHLEY (*Georgia Health Sciences University, Augusta, USA*)

0082 8:15 a.m. Influence of QAMs on conversion and E-modulus of adhesive resins. M. CADENARO*, L. FONTANIVE, G. MARCHESI, R. DI LENARDA, A. TEZVERGIL-MUTLUAY, F. RUEGGEBERG, F.R. TAY, D. PASHLEY, and L. BRESCHI (*University of Trieste, Italy*)

0083 8:30 a.m. Volumetric Isothermal Polymerization Contraction of Model Quaternary-Ammonium-Methacrylate (-Acrylate) Resins. M. MUTLUAY*, F. RUEGGEBERG, A. TEZVERGIL-MUTLUAY, K. AGEE, and D. PASHLEY (*University of Turku, Finland*)

0084 8:45 a.m. Dentin Wettability of Model Quaternary-Ammonium-Methacrylate Resins. A. TEZVERGIL-MUTLUAY*, F. RUEGGEBERG, M. MUTLUAY, M. CADENARO, K. AGEE, L. BRESCHI, F. TAY, and D. PASHLEY (*University of Turku, Finland*)

0085 9 a.m. Effect of Chlorhexidine-containing Adhesives on Early Dentin Shear Bond Strength. C. SABATINI*, R. ARTWANI, and F. SCANNAPIECO (*State University of New York – SUNY – Buffalo, USA*)

9:15 a.m. Discussion.

Seq#: 24 Thursday, 22 March 2012, 8 a.m. – 9:30 a.m.
Oral Session, Room 24

Dental Materials: Biocompatibility and Biologic Effects

Chairpersons: A. Bedran-Russo and G. Schmalz

0086 8 a.m. Interlaboratory Testing of a New Cytotoxic Control Dental Material Formulation. G. SCHMALZ*, K.-A. HILLER, C. SEIDENADER, and H. SCHWEIKL (*University of Regensburg, Germany*)

0087 8:15 a.m. Evaluation of *Streptococcus Mutans* on Dental Composite Resins. B. STONER*, J. PIASCIK, E.J. SWIFT, Jr., B. BYERS, L. NISTICO, G. EHRLICH, and W. COSTERTON (*Research Triangle Institute, Durham, NC, USA*)

0088 8:30 a.m. Quantification of collagen cross-linking and permeability at dentin-resin interface. A.K. BEDRAN-RUSSO*, B. AYDIN, L. SALEH-HASSAN, and V. GRACE (*University of Illinois at Chicago, USA*)

S0089 8:45 a.m. TEGDMA Induction of Apoptotic Proteins in Pulp Fibroblasts. G. BATARSEH*, L. WINDSOR, N. LABBAN, Y. LIU, and K. GREGSON (*King Saud University, Riyadh, Saudi Arabia/Indiana University School of Dentistry, Department of Oral Biology, Indianapolis, USA*)

S0090 9 a.m. Resin-Composite Biodegradation By-products Modulate *Streptococcus mutans* Growth and Gene Expression. L. SADEGHINEJAD*, D. CVITKOVITCH, J.P. SANTERRE, and Y. FINER (*University of Toronto, Canada*)

9:15 a.m. Discussion.

Seq#: 25 Thursday, 22 March 2012, 8 a.m. – 9:30 a.m.
Oral Session, Room 23

Dental Materials: Chemistry, Properties, and Performance

Chairpersons: J. Platt and S. Megremis

S0091 8 a.m. Estimation of Periodontal Ligament's Mechanical Parameters for Finite Element Modeling. Z. XIA* and J. CHEN (*Indiana University-Purdue University Indianapolis, USA*)

0092 8:15 a.m. Composites Containing Bioactive Glass Readily Release Fluoride and are Rechargeable. H. DAVIS*, F. GWINNER, J. MITCHELL, M. WANG, and J. FERRACANE (*Oregon Health & Science University, Portland, USA*)

0093 8:30 a.m. Working Times and Rheological Properties of Elastomeric Impression Materials. S. MEGREMIS* (*American Dental Association, Chicago, IL, USA*)

S0094 8:45 a.m. Chemo-Mechanical Fatigue of Endodontic NiTi Rotary Files. A. ABU-MELHA*, M. PINES, and Y. ZHANG (*New York University, USA*)

S0095 9 a.m. Effect Of Additives To MTA On Setting Reaction And Time. A. ZAPF* and E. NINAN (*Marquette University, Milwaukee, WI, USA*)

0096 9:15 a.m. Setting Expansion of Two New Root End Filling Materials. R. CAMPBELL* (*U.S. Navy Dental Corps, Bethesda, MD, USA*)

Seq#: 26 Thursday, 22 March 2012, 8 a.m. – 9:30 a.m.
Oral Session, Room 18

Microbiology / Immunology – Keynote Address and Streptococci

Chairpersons: S. Pourshahidi and Y. Liu

0097 8 a.m. Keynote Address: Streptococcus: Pillar of the Community. H. JENKINSON* (*University of Bristol, United Kingdom*)

0098 8:30 a.m. Cigar and Cigarette Smoke Effect on Streptococcus Mutans and Sanguis. S. POURSHAHIDI*, H. EBRAHIMI, A. BAZARGANI, E. ANSARIFARD, and F. KARIMI (*Shiraz University of Medical Sciences, Iran*)

S0099 8:45 a.m. Starch and Salivary -Amylase induce expression of *Streptococcus gordonii* AbpA. A. NIKITKOVA*, E. HAASE, and F. SCANNAPIECO (*University at Buffalo, NY, USA*)

0100 9 a.m. Cholorhaxidin, Salt and Acetic Acid's Effect on Streptococcus Mutans and Sanguis. H. EBRAHIMI*, S. POURSHAHIDI, A. BAZARGANI, and P. ROHANI (*Shiraz University of Medical Sciences, Iran*)

S0101 9:15 a.m. Streptococcus pneumoniae Binding to Salivary Glycoproteins. S. THAMADILOK*, H. ROCHE-HÅKANSSON, R. SCHWARTZ, A.P. HÅKANSSON, and S. RUHL (*University at Buffalo, NY, USA*)

Seq#: 27 Thursday, 22 March 2012, 8 a.m. – 9:30 a.m.
Oral Session, Room 16

Mineralized Tissue – Bone, Periodontal Ligament, and Stem Cell Biology

Chairpersons: A. Boskey and B. Foster

0102 8 a.m. The Importance of Sodium-Phosphate co-transport for Bone Mineralization. A. BOSKEY*, L. SPEVAK, Y. SABBAGH, and S. SCHIAVI (*Hospital for Special Surgery, New York, NY, USA*)

S0103 8:15 a.m. Determining osteoclasts' role in hematopoietic stem cell mobilization and metastasis. J. ZALUCHA*, J. JOSEPH, Y. SHIOZAWA, Y. JUNG, J. WANG, and R. TAICHMAN (*University of Michigan, Ann Arbor, USA*)

0104 8:30 a.m. Concerted regulation of cementum by pyrophosphate regulatory agents. B. FOSTER*, F. NOCITI, A. TRAN, K. NAGATOMO, D. MATSA-DUNN, J. WADE, W. WANG, J. MILLAN, and M. SOMERMAN (*University of Washington, Seattle, USA*)

S0105 8:45 a.m. *FAM20A* missense mutation associated with AI and gingival hyperplasia. S.-K. WANG, R. MILKOVICH*, Y. HU, J.P. SIMMER, and J.C.-C. HU (*University of Michigan, Ann Arbor, USA*)

S0106 9 a.m. Loading rate response of a diseased bone-tooth fibrous joint. J. LIN*, H. ÖZCOBAN, M. RYDER, and S. HO (*University of California – San Francisco, USA*)

0107 9:15 a.m. Heterogeneity within Human Alveolar Bone; a Functional Necessity. J. HURNG, M. KURYLO, J. LIN, J. HAYTER, P.A. PIANETTA, S.M. WEBB, and S. HO* (*University of California – San Francisco, USA*)

Seq#: 28 Thursday, 22 March 2012, 8 a.m. – 9:30 a.m.
Oral Session, Room 21

Oral & Maxillofacial Surgery – Oral & Maxillofacial Surgery I

Chairpersons: J. Tanner and S. Rengasamy Venugopalan

0108 8 a.m. Demethylating Drugs Have Antiproliferative and Analgesic Effects on Oral Cancer. C. VIET* and B. SCHMIDT (*New York University, USA*)

S0109 8:15 a.m. MicroXCT Analysis of Bone Regeneration and Resorption in Tissue-Engineered Constructs. P. MITTERMILLER*, S. HO, S. DJOMEHRI, W. YU, A. TOMSIA, G. MARSHALL, S. MARSHALL, and J. LEE (*University of California – San Francisco, USA*)

0110 8:30 a.m. Impact of Orthognathic Surgery on Oral Health QOL. C. PHILLIPS, T. LIVINGSTON*, and G. BLAKEY III (*University of North Carolina, Chapel Hill, USA*)

0111 8:45 a.m. Tooth Loss and Obstructive Sleep Apnea Severity. J.M. TANNER*, T. CHANG, B.A. FREED, and N.D. HARADA (*Veterans Affairs Medical Center and University of California, Los Angeles, USA*)

0112 9 a.m. Tissue Regeneration Using Polymer/ Calcium Phosphate Scaffolds in Rabbit Model. O. ORTIZ*, A. DARR, R. LEGEROS, and J. KOHN (*New Jersey Center for Biomaterials, Rutgers University, Piscataway, USA*)

0113 9:15 a.m. A Ceramic Drug Delivery System For Bone Augmentation. M. DRAENERT*, F. FORRIOL, and K. DRAENERT (*LMU Munich, Germany*)

Seq#: 29 Thursday, 22 March 2012, 8 a.m. – 9:30 a.m.
Oral Session, Room 13

Pharmacology/Therapeutics/Toxicology – Oral Cancer and Wound Healing

Chairpersons: A. Papas and E. Hersh

S0114 8 a.m. Evaluation of a Mucoadhesive Fenretinide Patch for Oral Cancer Chemoprevention. A. HOLPUCH*, M. PHELPS, K.G.H. DESAI, W. CHEN, G. KOUTRAS, M. BORDER, B. HAN, M. TONG, P. PEI, B. WARNER, H. FIELDS, P. LARSEN, G. STONER, Z. LIU, S. SCHWENDEMAN, and S.R. MALLERY (*Ohio State University, Columbus, USA*)

0115 8:15 a.m. Endosomolytic Peptide-Mediated Delivery of Therapeutic siRNAs into Oral Cancer Cells. M. SOKOLOSKY and A. JAKYMIW* (*Medical University of South Carolina, Charleston, USA*)

S0116 8:30 a.m. Zoledronic Acid enhances proteasome-mediated degradation of SOCS3. W. VU*, C. JOHNSON, P. ADESANYA, L.-B. RUEST, and J. REUBEN (*Baylor College of Dentistry, Dallas, TX, USA*)

0117 8:45 a.m. The indirect antinociceptive mechanism of 15d-PGJ₂ on RA-induced TMJ hyperalgesia. J. CLEMENTE-NAPIMOGA*, M. QUINTEIRO, and M. NAPIMOGA (*Piracicaba Dental School, State University of Campinas, Brazil*)

0118 9 a.m. Cardiovascular Effects and Pharmacokinetics of Intranasal Tetracaine plus Oxymetazoline. E. HERSH*, L. LEVIN, J. CHOU, S. SECRETO, T. CACEK, M. HUTCHESON, P. MOORE, and H. GIANNAKOPOULOS (*University of Pennsylvania, Philadelphia, USA*)

0119 9:15 a.m. 2-Month Plaque Prevention Clinical Trial with 0.1% Cetylpyridinium Chloride Rinse. M. SINGH*, A. PAPAS, S. SUNDARALINGAM, E. TZAVARAS, R. CHENG, J.J. WITT, and R. GERLACH (*Tufts University, Boston, MA, USA*)

Seq#: 30 Thursday, 22 March 2012, 8 a.m. – 9:30 a.m.
Oral Session, Room 12

Salivary Research – Keynote Address and Saliva in Health and Disease

Chairpersons: S. Ruhl and K. Limesand

0120 8 a.m. Keynote Address: The Role of Saliva in Digestion and Gastro-intestinal Health. E. HELMERHORST* (*Boston University, MA, USA*)

0121 8:30 a.m. Search for microbial markers of oral cancer in Fanconi Anemia. F. TELES*, R. TELES, M. PATEL, E. GUINAN, B. PASTER, and S. SOCRANSKY (*The Forsyth Institute, Cambridge, MA, USA*)

0122 8:45 a.m. Binding between Human Salivary Components and *Staphylococcus aureus*. S.-M. HEO, K.-S. CHOI, L. KAZIM, E.M. HAASE, M.S. REDDY, F.A. SCANNAPIECO, and S. RUHL* (*State University of New York – Buffalo, USA*)

0123 9 a.m. Recovery of DMBT1 in Saliva of HNSCC Patients Following Treatment. N. D'SILVA*, C. MURDOCH-KINCH, N. RUSSO, R. BANERJEE, J. VANHORN, T. BRAUN, and A. EISBRUCH (*University of Michigan, Ann Arbor, USA*)

0124 9:15 a.m. Role of PLUNC in diabetes and oral disease. S. BENCHARIT*, S. SCHWARTZ, J. CARLSON, H. KOHLTFARBER, C. MACK, R. TARRAN, and M. REDINBO (*University of North Carolina, Chapel Hill, USA*)

Seq#: 31 Thursday, 22 March 2012, 8 a.m. – 9:30 a.m.
Oral Session, Room 25

Theme: Stem Cell Biology in Craniofacial Tissues II

Chairpersons: L. Hong and P. Arany

0125 8 a.m. Effects Of GR SiRNA On Proliferation Of MSCs In vitro. L. HONG*, N. WEI, N. KIM, Y. YU, V. JOSHI, and A. SALEM (*University of Iowa, Iowa City, USA*)

S0126 8:15 a.m. Stem Cell Factor induces cell migration through PI3K and MEK/ERK. S. PAN*, T. DIEKWISCH, and X. LUAN (*University of Illinois – Chicago, USA*)

0127 8:30 a.m. MicroRNA-218: A Key Regulatory Factor for RUNX2. A. SPEER*, A. CAVENDER, B. AMENDT, and I. GAY (*University of Texas – Houston/Health Science Center, USA*)

S0128 8:45 a.m. SCF/Kit Signaling Enhances Fgfr2b-dependent Expansion of Salivary Gland Stem/Progenitor Cells. S. ABRAMS*, I. LOMBAERT, and M. HOFFMAN (*NIH NIDCR, Bethesda, MD, USA*)

S0129 9 a.m. The Role of RANKL and RANKL Inhibition in Fibrous Dysplasia. J. TSAI*, N. BHATTACHARYYA, J. APTAKER, W. CHONG, L. CAROMILE, A. MOLINOLO, P. ROBEY, and M.T. COLLINS (*National Institute of Dental and Craniofacial Research, National Institutes of Health, Bethesda, MD, USA*)

9:15 a.m. Discussion.

Seq#: 32 Thursday, 22 March 2012, 9:45 a.m. – 10:30 a.m.
Plenary, Ballroom B-C

Distinguished Lecture Series/Plenary Sessions – Personalized Health Care: Opportunities and Challenges for Dentistry

0130 9:45 a.m. Personalized Health Care: Opportunities and Challenges for Dentistry. M. SOMERMAN* (*National Institutes of Health, Bethesda, MD, USA*)

Seq#: 33 Thursday, 22 March 2012, 10:45 a.m. – 12:15 p.m.
Symposium, Room 10

Symposium – Building the Oral Health Care Workforce: Multipronged Research on Dental Therapy

Chairperson: K. Self

0131 10:45 a.m. Educating the Oral Workforce through Team Education: New Evidence. N. LOPEZ* (*University of Minnesota, Minneapolis, USA*)

11:05 a.m. Practitioner Perceptions, Attitudes, and Expectations: Baseline Findings. C. BLUE* (*University of Minnesota, Minneapolis, USA*)

11:25 a.m. Economic Modeling: Is Dental Therapy Financially Sustainable?. K. SELF* (*University of Minnesota, Minneapolis, USA*)

11:45 a.m. Bringing Care to the People: New Workforce Models in Nontraditional Settings in the Community. P. GLASSMAN* (*University of the Pacific, San Francisco, CA, USA*)

Seq#: 34 Thursday, 22 March 2012, 10:45 a.m. – 12:15 p.m.
Symposium, Room 9

Symposium – Challenges in Salivary Diagnostics

Chairpersons: D. Malamud and W. Siqueira

0132 10:45 a.m. Chair's Opening Remarks.

10:50 a.m. Challenges Associated with Saliva Collection. M. NAVAZESH* (*University of Southern California, Santa Monica, USA*)

11:15 a.m. Proteomics of Proteins Processed in the Oral Cavity. E. HELMERHORST* (*Boston University, MA, USA*)

11:40 a.m. Integrating Salivary Biomarkers and Analytes into Developmental, Behavioral, and Health Sciences: Prospects, Problems and Future Directions. D. GRANGER* (*Salimetrics, State College, PA, USA*)

12:05 p.m. Chair's Summary.

12:10 p.m. Discussion.

Seq#: 35 Thursday, 22 March 2012, 10:45 a.m. – 12:15 p.m.
Symposium, Room 14

Symposium – Epigenetics of Stem Cells and Development

Theme: Stem Cell Biology in Craniofacial Tissues

Chairpersons: X. Luan and C. Wang

10:45 a.m. Introductory Remarks: N. LUMELSKY.

0133 10:55 a.m. Histone Deacetylase Functions in Dental and other Epithelial Cells. S. MILLAR* (*University of Pennsylvania, Philadelphia, USA*)

11:15 a.m. Epigenetic Regulation of Mesenchymal Stem Cell Fate by Histone Demethylases. C.-Y. WANG* (*University of California – Los Angeles, USA*)

11:35 a.m. Epigenetic Regulation of Dental Progenitor Fate in Development. X. LUAN* (*University of Illinois at Chicago, USA*)

11:55 a.m. CP27 – a Chromatin Factor in Tooth Development. T. DIEKWISCH* (*University of Illinois at Chicago, USA*)

Seq#: 36 Thursday, 22 March 2012, 10:45 a.m. – 12:15 p.m.
Symposium, Ballroom D

Symposium – Novel Technology for Caries and Hypersensitivity Management

Chairperson: B. Amaechi

- 0134** 10:45 a.m. Brief Introduction. B. AMAECHI* (*University of Texas Health Science Center at San Antonio, USA*)
 10:50 a.m. The Science and Development of Functionalized Tri-Calcium Phosphate Technology. R. KARLINSEY* (*Indiana Nanotech, Indianapolis, USA*)
 11:05 a.m. Evidence for Caries and Erosion Management. J. WEFEL* (*University of Iowa, Iowa City, USA*)
 11:30 a.m. Evidences for Antihypersensitivity Management. V. WHITE* (*Therametric Technologies, Inc, Noblesville, IN, USA*)
 11:45 a.m. Case Reports from Dental Office. R. THAPER* (*Thaper Dental Clinic, Jaipur 302 005, India*)
 12:05 p.m. Panel Discussion. B. AMAECHI* (*University of Texas Health Science Center at San Antonio, USA*)

Seq#: 37 Thursday, 22 March 2012, 10:45 a.m. – 12:15 p.m.
Symposium, Room 13

Symposium – Regenerative Endodontics: Dental Pulp Tissue Engineering? Revascularization?

Theme: Stem Cell Biology in Craniofacial Tissues

Chairperson: J. Nör

- 0135** 10:45 a.m. Multidomain Peptide Hydrogels as a Novel Biologically-Driven Pulp Therapy. R. D'SOUZA* (*Baylor College of Dentistry, Dallas, TX, USA*)
 11:05 a.m. Translational Regenerative Endodontic Research and Stem Cells from Apical Papilla (SCAP). A. DIOGENES* (*University of Texas at San Antonio, USA*)
 11:25 a.m. Revitalization/Revascularization Versus Regeneration of Pulp and Dentin. G. HUANG* (*Boston University, MA, USA*)
 11:45 a.m. Induced Mesenchymal Stem Cells (iMSC): Alternative Source of Autologous Cells for Dental Pulp Tissue Engineering. M. KANG* (*University of California – Los Angeles, USA*)
 12:05 p.m. Discussion.

Seq#: 38 Thursday, 22 March 2012, 10:45 a.m. – 12:15 p.m.
Oral Session, Room 20

Cariology Research – Demin/Remineralization – Cariology: Demineralization-Remineralization Studies

Chairpersons: B. Schmuck and F. Lippert

- 0136** 10:45 a.m. White-Spot Quantification Using Enhanced White Light and Fluorescence Imaging. V. WONG*, R.A. CCAHUANA-VÁSQUEZ, and B.T. AMAECHI (*Carestream Health, Inc, Rochester, NY, USA*)
S0137 11 a.m. PILP Remineralized Dentin Lesions Have Two Zones of Distinct Properties. Y.C. CHIEN*, K. SAEKI, S. HO, S.F. HABELITZ, S. MARSHALL, L. GOWER, and G. MARSHALL (*University of California San Francisco, USA*)
0138 11:15 a.m. Oral Ca/PO₄ After Chewing Multiple-Salt Gums Following Sucrose Rinse. B. SCHMUCK*, G.L. VOGEL, and G.E. SCHUMACHER (*American Dental Association Foundation, Gaithersburg, MD, USA*)
0139 11:30 a.m. Fluoride Response of Human and Bovine Enamel under pH-Cycling Conditions. F. LIPPERT*, A. HARA, and D. ZERO (*Indiana University School of Dentistry, Indianapolis, USA*)

0140 11:45 a.m. Treatment of White Spot Lesions: A Randomized Clinical Trial. G. HUANG*, B. ROLOFF-CHIANG, S. SHALCHI, B. MILLS, C. SPIEKERMAN, A. KORPAK, and Northwest PRECEDENT (*University of Washington, Seattle, USA*)
 Noon Discussion.

Seq#: 39 Thursday, 22 March 2012, 10:45 a.m. – 12:15 p.m.
Oral Session, Room 15

Craniofacial Biology – Keynote Address & Loading and Remodeling in the Craniofacial Complex

Chairpersons: J. Kuo and D. Covell

- 0141** 10:45 a.m. Keynote Address: Do Craniofacial Bones Require Loading?. S.W. HERRING* (*University of Washington, Seattle, USA*)
S0142 11:15 a.m. Does Masseter Paralysis Lead to Resorption of Alveolar Bone?. A. SALAMATI*, K.L. RAFFERTY, and S.W. HERRING (*University of Washington, Seattle, USA*)
S0143 11:30 a.m. Evidence of Bone Remodeling in the Mandible of Domestic Pigs. N. PRUETER*, A. D'ATRI, M. BECK, and S. HUJA (*Ohio State University, Columbus, USA*)
0144 11:45 a.m. Finite Element Analysis of Ultrasound Propagation through Dog Mandible. B. VAFAEIAN, S. AL-DAGHREER, S. ADEEB, and T. EL-BIALY* (*University of Alberta, Edmonton, Canada*)
S0145 Noon Glucose and Lactate Diffusion in Porcine TMJ Discs. J. KUO*, G. WRIGHT, M. KERN, and H. YAO (*Clemson University, Charleston, SC, USA*)

Seq#: 40 Thursday, 22 March 2012, 10:45 a.m. – 12:15 p.m.
Oral Session, Room 24

Dental Materials: Color and Appearance (Esthetics) – Keynote Address and Tooth Whitening

Chairpersons: R. Paravina and S. Nathoo

- 0146** 10:45 a.m. Keynote Address: Whitening Research: Pathways to Credible Results. R. PARAVINA* (*University of Texas at Houston, USA*)
0147 11:15 a.m. The Chemistry Behind Hydrogen Peroxide Tooth Whitening. N. YOUNG*, P. FAIRLEY, V. MOHAN, and C. JUMEAUX (*Philips Research Laboratories, Cambridge, United Kingdom*)
0148 11:30 a.m. Clinical Effect of Dentifrice/Activator on Teeth Whiteness and Gingival health. G. FREEDMAN*, F. GOLDSTEP, A. SHRIDHARANI, B. ARVELO, and S. NATHOO (*Oral Health Research Associates, Markham, Canada*)
0149 11:45 a.m. Clinical Evaluation of a Self-Applied Tooth Whitening Activator. F. GOLDSTEP, G. FREEDMAN, T. MASQATI, B. ARVELO, and S. NATHOO* (*Oral Health Research Associates, Markham, Canada*)
0150 Noon Dynamic Model of Hydrogen Peroxide Diffusion-Kinetics into the Pulp Cavity. S.R. KWON*, Y. LI, R.M. APRECIO, and S.S. LEE (*Loma Linda University, School of Dentistry, CA, USA*)

Seq#: 41 Thursday, 22 March 2012, 10:45 a.m. – 12:15 p.m.
Oral Session, Room 22

Dental Materials: Adhesion – Bond Strength Testing and Mechanisms – Bond Durability: Role of MMPs

Chairpersons: D. Pashley and L. Breschi

0151 10:45 a.m. Effects of acid-etching on endogenous MMP activity of EDTA-demineralized dentin. A. TEZVERGIL-MUTLUAY, M. MUTLUAY, R. SESEOGULLARI-DIRIHAN, K. AGEE, L. BRESCHI, A. MAZZONI, L. TJADERHANE, Y. NISHITANI, F. TAY, and D. PASHLEY* (*Georgia Health Sciences University, Augusta, USA*)

0152 11 a.m. Adhesives activate MMP-2 and MMP-9: ELISA and zymographic assay. A. MAZZONI*, V. PAPA, F. NATO, M. CARRILHO, A. TEZVERGIL-MUTLUAY, K. AGEE, L. TJADERHANE, F. TAY, D. PASHLEY, and L. BRESCHI (*University of Bologna, Italy*)

0153 11:15 a.m. QAMs inhibit dentin endogenous MMPs: ELISA and zymographic assay. L. BRESCHI*, A. MAZZONI, V. PAPA, F. NATO, M. CARRILHO, M. CADENARO, K. AGEE, A. TEZVERGIL-MUTLUAY, S. IMAZATO, F. TAY, and D. PASHLEY (*University of Trieste, Italy*)

S0154 11:30 a.m. Genipin-induced cross-linking and dentin bond strength. H. NAGAOKA*, H. NAGAOKA, R. WALTER, L. BOUSHELL, A. RITTER, and M. YAMAUCHI (*University of North Carolina, Chapel Hill, USA*)

S0155 11:45 a.m. Bond Durability to Dentin Pretreated With Ethanol-based-chlorhexidine Under Intrapulpal Pressure. A. SAAD*, H. EL-DEEB, and E. MOBARAK (*Faculty of Oral and Dental Medicine, Cairo, Egypt*)

0156 Noon Evaluating EDTA as a Substitute for Phosphoric-Acid-Etched Enamel and Dentin. S. CLAWSON*, T.A. IMBERY, A.M. BEST, and P.C. MOON (*Virginia Commonwealth University – VCU/MCV, Richmond, USA*)

Seq#: 42 Thursday, 22 March 2012, 10:45 a.m. – 12:15 p.m.
Oral Session, Room 25

Dental Materials: Ceramic-based Materials and Cements – Keynote Address and Zirconia Grit-blasting and Aging; Ceramic Chip Resistance and Strengthening

Chairpersons: P. Cesar and Y. Zhang

0157 10:45 a.m. Keynote Address: Sandblasting of Dental Zirconia: an Engineering Perspective. T. KOSMAC* (*Jozef Stefan Institute, Ljubljana, Slovenia*)

S0158 11:15 a.m. Depth of Transformation for Accelerated Aging in Y-TZP. T. LUCAS*, G. JANOWSKI, D. CAKIR, and J. BURGESS (*University of Alabama at Birmingham, USA*)

0159 11:30 a.m. Edge Chip Resistance of Dental Restorative Materials. K.M. HOFFMAN, G. QUINN*, and J.B. QUINN (*American Dental Association Foundation, Gaithersburg, MD, USA*)

S0160 11:45 a.m. Microstructural Effects on Fracture Strength of YSZ Thin-film Modified Constructs. R. CHAN*, R. SCATTERGOOD, R. SMITH, III, J. THOMPSON, B. STONER, and J. PIASCIK (*RTI International / North Carolina State University, Research Triangle Park, USA*)

0161 Noon Effect of Fiber Addition and Processing Method on Porcelain Properties. P. CESAR*, M. ARAUJO, R. MIRANDA, H. YOSHIMURA, and C. FREDERICCI (*University of Sao Paulo, Brazil*)

Seq#: 43 Thursday, 22 March 2012, 10:45 a.m. – 12:15 p.m.
Oral Session, Room 23

Dental Materials: Polymer-based Materials-Physical Properties and Performance – Physico-mechanical Properties of Flowables and Hybrid Resin-composites

Chairpersons: N. Ruse and C. Cao

S0162 10:45 a.m. 3D Void Assessment in Flowable Resin Composites using SS-OCT. A. NAZARI*, A. SADR, Y. SHIMADA, J. TAGAMI, and Y. SUMI (*Tokyo Medical and Dental University, Japan*)

0163 11 a.m. Flowable vs restorative composites: flexural strength and fracture toughness. N.D. RUSE* (*University of British Columbia, Vancouver, Canada*)

0164 11:15 a.m. Real-Time Measurement of Full-field Polymerization Shrinkage in Dental Resin Composites. A. LAU*, Y. HEO, J. LI, and A. FOK (*University of Minnesota, Minneapolis, USA*)

0165 11:30 a.m. Stickiness and Stringiness of Uncured Nano- and Nano-hybrid Composites. T. DUNBAR*, B.D. CRAIG, G.A. KOBUSSEN, and J.L. KITTELSON (*3M ESPE, Maplewood, MN, USA*)

0166 11:45 a.m. Translucency and Radiopacity of Five Resin Composites. J. THOMPSON, Jr., J. DENNISON*, and P. YAMAN (*University of Michigan, Ann Arbor, USA*)

0167 Noon Novel Bulk-fill Flowable with Excellent Mechanical and Wear Properties. C. CAO*, G. KOBUSSEN, J.L. KITTELSON, M. DORUFF, R. HALVORSON, J. OXMAN, and S. BIGHAM (*3M ESPE, St. Paul, MN, USA*)

Seq#: 44 Thursday, 22 March 2012, 10:45 a.m. – 12:15 p.m.
Oral Session, Room 12

Implantology Research – Evaluation of Bone-Implant Interface and Restorations

Chairpersons: R. Liu and R. Han

0168 10:45 a.m. Peri-implant Indices of Remodeling as a Response to Mechanical Loading. M. GURNEY*, T. EUBANK, J. HOLLOWAY, E. MCGLUMPHY, J. WALTERS, and B. LEBLEBICIOGLU (*Ohio State University, Columbus, USA*)

S0169 11 a.m. Bone Mineralization Controls Viscoelastic Migration of Mini-implant under Functional Loading. J. PITTMAN*, A. NAVALGUND, S. BYUN, H. HUANG, A.H. KIM, and D.-G. KIM (*Ohio State University, Columbus, USA*)

0170 11:15 a.m. Histomorphometry of Longer-Term Implant Interfaces. J. LEMONS* and D. KOJIC (*University of Alabama at Birmingham, USA*)

0171 11:30 a.m. Implant Stability by Resonance Frequency Analysis at Abutment Level. R.K. HAN* and P.A. SCHNITMAN (*Harvard University, Boston, MA, USA*)

S0172 11:45 a.m. Single unit implant placement and restoration outcomes: PEARL interim findings. J. KAZIMIROFF*, K. OH, R. CRAIG, V. THOMPSON, T. LOMAX, D. COLLIE, D. VENA, and F. CURRO (*Montefiore Medical Center, Bronx, NY, USA*)

0173 Noon Effect of Delayed Setting Expansion of Dental Stones on Implants. G. LIU* (*U.S. Navy Dental Corps, Bethesda, MD, USA*)

Seq#: 45 Thursday, 22 March 2012, 10:45 a.m. – 12:15 p.m.
Oral Session, Room 16

Mineralized Tissue – Enamel Formation and Pathologies

Chairpersons: Y. Chun and X. Wang

S0174 10:45 a.m. Inactivation of FAM20C (DMP4) Causes Hypophosphatemic Rickets and Dental Defects. X. WANG*, S. WANG, C. LI, T. GAO, Y. LIU, A. RANGIANI, Y. SUN, J. HAO, A. GEORGE, Y. LU, J. GROPE, B. YUAN, J. FENG, and C. QIN (*Baylor College of Dentistry, Dallas, TX, USA*)

0175 11 a.m. Ameloblastin and Ameloblast Differentiation in Enamel Formation. Y.-H. CHUN*, J. TEEPE, Y. YAMADA, C. SMITH, S. ABBOD WERNER, R.J. FAJARDO, and S. HARRIS (*University of Texas at San Antonio, USA*)

0176 11:15 a.m. Protein-Containing Enamel Matrix Layer Bridging the Dentin-Enamel Junction. J. GORSKI*, V. DUSEVICH, C. XU, S. MCDONALD, R. REED, Y.W. LIU, Y. WANG, and M.P. WALKER (*University of Missouri -Kansas City, USA*)

S0177 11:30 a.m. Molecular Controls of Ameloblast Differentiation. L. ZHENG*, S. PAPAGERAKIS, and P. PAPAGERAKIS (*University of Michigan, Ann Arbor, USA*)

S0178 11:45 a.m. Genotypic-Phenotypic Comparisons of Two *AMELX* Deletions. S. SIMMER*, R. MILKOVICH, F. SEYMEN, and J.C.-C. HU (*University of Michigan, Ann Arbor, USA*)

0179 Noon Backscatter Scanning Electron Microscopic Comparisons of Enamel Protein Null Mice. Y. HU*, J.C.-C. HU, and J.P. SIMMER (*University of Michigan, Ann Arbor, USA*)

Seq#: 46 Thursday, 22 March 2012, 10:45 a.m. – 12:15 p.m.
Oral Session, Room 11

Neuroscience – Neuroscience I

Chairpersons: L. Gallo and J. Ferreira

0180 10:45 a.m. Reproducibility of mandibular helical axis parameters. A. MUNIR and L. GALLO* (*University of Zürich, Zurich, Switzerland*)

S0181 11 a.m. Quantitative Sensory Testing Assessing Extraterritorial Neurosensory Abnormalities in Atypical Odontalgia. L. BENCA*, J. NAUD, and M. DRANGSHOLT (*University of Washington, Seattle, USA*)

S0182 11:15 a.m. Interrater Reliability of Tender Points Using Different RDC for TMD. R. LIN*, L. NEMELIVSKY, D. SIROIS, M. JANAL, and K. RAPHAEL (*New York University, USA*)

0183 11:30 a.m. Characterization of Xenogenic Biologic Scaffold for the Temporomandibular Joint Disc. A. ALMARZA*, B. BROWN, W.L. CHUNG, C. HAGANDORA, and S. HENDERSON (*University of Pittsburgh, PA, USA*)

0184 11:45 a.m. Tooth contact and brain activity. T. SHIMAZAKI*, T. OTSUKA, K. SASAGURI, and S. SATO (*Kanagawa Dental College, Yokosuka, Japan*)

0185 Noon Repeated Social Defeat Induces Recruitment of Macrophages to the CNS. E. WOHLER*, N. POWELL, J. GODBOUT, and J. SHERIDAN (*Ohio State University, Columbus, USA*)

NOTE: * = Presenting Author

S prior to the presentation number indicates Student Presenter

All scientific sessions are located at the Tampa Convention Center.

Seq#: 47 Thursday, 22 March 2012, 10:45 a.m. – 12:15 p.m.
Oral Session, Room 21

Oral Medicine & Pathology – Carcinogenesis I

Chairpersons: D. Abdelmalak and N. Rhodus

0186 10:45 a.m. Progression/Metastasis of Xenografted Oral Cancer Cell-lines in Mouse Tongue. Y. SOENO*, Y. SHIRAKO, K. FUJITA, Y. TAYA, Y. SHIMAZU, K. NAKAU, K. SATO, T. CHIBA, K. IMAI, and T. AOBA (*Nippon Dental University, Tokyo, Japan*)

0187 11 a.m. Three-dimensional Assessment of Microinvasion of Oral Squamous Cell Carcinoma. Y. SHIRAKO*, Y. SHIMAZU, Y. TAYA, Y. SOENO, K. FUJITA, K. NAKAU, K. SATO, H. YAGISHITA, and T. AOBA (*Nippon Dental University, Tokyo, Japan*)

0188 11:15 a.m. A Novel Approach for Histology-based 3D Reconstruction of Tumor Vasculature. K. NAKAU*, Y. SHIMAZU, Y. TAYA, Y. SOENO, K. FUJITA, Y. SHIRAKO, K. SATO, H. YAGISHITA, and T. AOBA (*Nippon Dental University, Tokyo, Japan*)

S0189 11:30 a.m. Effects of Black Raspberries on Apoptosis in Experimental Oral Cancer. B. WARNER*, T. KNOBLOCH, K.B. GRILL, L.K. UHRIG, B. ACCURSO, B. KRIPKE, B.C. CASTO, and C. WEGHORST (*Ohio State University, Columbus, USA*)

S0190 11:45 a.m. Bacterial Lipopolysaccharides Induce Suppression of Natural Killer Cell Function. G. ORONA*, H.-C. TSENG, A. ARASTEH, and A. JEWETT (*University of California – Los Angeles, Thousand Oaks, USA*)

S0191 Noon Borrelidin Induces OSCC Cell Death via the Unfolded Protein Response. J. MILLER*, A. BROWNELL, D. CHIEGO, S. BECHLER, L. JACKSON, D. SHERMAN, R. KAUFMAN, M. CALLAGHAN, and A. FRIBLEY (*Wayne State University, Detroit, MI, USA*)

Seq#: 48 Thursday, 22 March 2012, 10:45 a.m. – 12:15 p.m.
Oral Session, Room 19

Periodontal Research – Pathogenesis – Periodontal Pathogenesis: Host-Bacteria Interactions

Chairpersons: G. Tribble and E. Whitaker

0192 10:45 a.m. Distinct Immune Responses to Oral Infection Among *Porphyromonas gingivalis* Strains. J. MARCHESAN*, N. INOHARA, S. LUNDY, T. MORELLI, S. LIM, Y. JIAO, G. NUNEZ, D. FOX, and W. GIANNOBILE (*University of Michigan, Ann Arbor, USA*)

0193 11 a.m. Biofilms of *Porphyromonas gingivalis* Contain Extracellular DNA. G. TRIBBLE*, T. RIGNEY, D.-H. DAO, and J. KERR (*University of Texas – Houston/Health Science Center, USA*)

S0194 11:15 a.m. NPY Y1, IL-1RI, and Adrenergic Receptors Modulate *P. gingivalis*-Induced Inflammation. B. READER*, C. IGBOIN, G. LEYS, M. BAILEY, B. LEBLEBICIOGLU, N. POWELL, and J. SHERIDAN (*Ohio State University, Columbus, USA*)

S0195 11:30 a.m. Altered differentiation and augmented function in Type 1 Diabetic-derived osteoclasts. D. CATALFAMO*, K. NEIVA, N. CALDERON, S. HARDEN, and S. WALLET (*University of Florida, Gainesville, USA*)

0196 11:45 a.m. Arginine deiminase and cytokine generation by human monocytes. D. STEPHENS*, C. CUGINI, D. NGUYEN, M.-E. DAVEY, and A. KANTARCI (*Forsyth Institute, Cambridge, MA, USA*)

S0197 Noon Arginine deiminase inhibits surface-attached growth of *Porphyromonas gingivalis*. C. CUGINI*, D. STEPHENS, D. NGUYEN, A. KANTARCI, and M.-E. DAVEY (*Forsyth Institute, Cambridge, MA, USA*)

THURSDAY

Seq#: 49 Thursday, 22 March 2012, 10:45 a.m. – 12:15 p.m.
Oral Session, Room 18

Prosthodontics Research – Clinical Research

Chairpersons: D. Felton and E. Emami

0198 10:45 a.m. The mandibular 3-implant overdenture. E. EMAMI*, J. BERNIER, P. ROMPRE, and J.S. FEINE (*Universite de Montreal, Canada*)

0199 11 a.m. Evaluating a Removable Prosthesis Clinical Protocol: Objective and Subjective Outcomes. H. HAMERINK*, W. PISKOROWSKI, and M.R. INGLEHART (*University of Michigan, Ann Arbor, USA*)

S0200 11:15 a.m. The Selection of Anterior Denture Teeth. E. RIVERA*, G. GARCIA, and C. DRISCOLL (*University of Maryland Dental School, Baltimore, USA*)

0201 11:30 a.m. Prospective clinical evaluation of all-ceramic crowns at 60 months. D. FELTON* (*West Virginia University, Morgantown, USA*)

S0202 11:45 a.m. 4-8 years Retrospective Dental Laboratory Survey of Zirconia-Based Restorations. A. RAIGRODSKI, S. DOGAN*, and G. ENGLUND (*University of Washington, Seattle, USA*)

0203 Noon Preliminary Report on Changes after Soft-tissue Management: 1-year Results. T. MARTIN*, H. RUDOLPH, M. HRUSA, B. JUST, and R.G. LUTHARDT (*Ulm University, Germany*)

Seq#: 50 Thursday, 22 March 2012, 2 p.m. – 3:15 p.m.
Poster Discussion Session, Ballroom D

Periodontal Research – Diagnosis / Epidemiology – Periodontal Disease Epidemiology / Diagnosis (PDS)

Chairpersons: D. Furgang and S. Prakasam

2 p.m. Poster Viewing Period.

S0204 2:20 p.m. Validity of Periodontal Disease Using European Classification of Periodontal Disease. J. WILDING*, R. DUNFORD, and R. GENCO (*State University of New York – Buffalo, USA*)

0205 2:27 p.m. MIP-1a: An Early Indicator of LAP Periodontal Site Breakdown Risk. D. FURGANG*, V. CURRO, D. TISCHIO-BERESKI, K. MARKOWITZ, K. FAIRLIE, J. FERRANDIZ, J. CROSBY, R. DONNELLY, and D. FINE (*New Jersey Dental School – UMDNJ, Newark, USA*)

0206 2:34 p.m. Distinct salivary-biomarkers profile in health versus chronic-periodontitis and treatment effects. S. PRAKASAM*, S. JANARDHANAM, and M. SRINIVASAN (*Indiana University, Indianapolis, USA*)

S0207 2:41 p.m. Periodontal Disease and Bisphosphonate-Related Osteonecrosis of the Jaw. V. THUMBIGERE MATH*, B. MICHALOWICZ, J. HODGES, D. BASI, P. HUGHES, and R. GOPALAKRISHNAN (*University of Minnesota, Minneapolis, USA*)

0208 2:48 p.m. Improved Periodontal Disease in HIV+ Adults Experiencing Immune Reconstitution. L. VERNON*, C. DEMKO, X. WANG, and D.C. BABINEAU (*Case Western Reserve University, Cleveland Heights, OH, USA*)

Seq#: 51 Thursday, 22 March 2012, 2 p.m. – 3:15 p.m.
Poster Session, East Hall

Pulp Biology & Regeneration Research – Dental Pulp Stem Cells and Tissue Engineering

S0209 Effects of Small Molecules on Dental Pulp Stem Cell Properties. M. ALHABIB* and G. HUANG (*Boston University, MA, USA*)

S0210 Investigation of Focal Adhesions During Dental Pulp Stem Cell Differentiation. T. TAYLOR*, H. NAIMIPOUR, S. SUN, M. CHO, and S. ALAPATI (*University of Illinois – Chicago, USA*)

0211 Magnetic Activated Cell Sorting for Human Dental Pulp Stem-Cell Identification. L. RODRIGUEZ-SERRANO*, M. DE LA GARZA-RAMOS, S. ALVA-SANDOVAL, C. DEL ANGEL-MOSQUEDA, M. MERCADO-MORALES, A. GÓMEZ-TREVIÑO, and A. MENDIOLA-JIMÉNEZ (*Universidad de Monterrey, Mexico*)

S0212 FGF2 Accelerates Recruitment Of Early Progenitors Into Odontoblast Lineage. K. SAGOMONYANTS*, B. RODGERS, P. MAYE, and M. MINA (*University of Connecticut, Farmington, USA*)

0213 Dental Apical Papilla stem/Progenitor Cells enriched by Flow Cytometry. A. BAKOPOULOU, G. LEYHAUSEN, J. VOLK, A. BECKEDORF, P. KOIDIS, and W. GEURTSSEN* (*Medical University of Hannover, Germany*)

S0214 Control of BMP2-Engineered Mesenchymal Progenitor Cell Differentiation by Polymeric Substrates. A. BHERWANI*, C.-C. CHANG, S.M. CHAVALI, G. PELLÉD, Z. GAZIT, D. GAZIT, E. DIMASI, M. RAFAILOVICH, and M. SIMON (*State University of New York – Stony Brook, USA*)

S0215 Biomechanical Remodeling of Dental Pulp Stem Cell Differentiation. H. NAIMIPOUR*, T. TAYLOR, S. SUN, M. CHO, and S. ALAPATI (*University of Illinois – Chicago, USA*)

S0216 Optimized GelMA Hydrogels for Dental Tissue Engineering. W. LIU*, W. ZHANG, B. VASQUAZ, and P. YELICK (*Tufts University, Boston, MA, USA*)

S0217 Overexpression of DMP1 in Periodontal Ligament Stem Cells using Lentivirus. C. POLITIS*, Y. ZHANG, C. GUPTA, S. RAVINDRAN, and A. GEORGE (*University of Illinois – Chicago, USA*)

S0218 Small Molecule Inhibitor Neural Differentiation of Marmoset Monkey iPSCs. S. FARNSWORTH*, Z. QIU, A. MISHRA, and P.J. HORNSBY (*University of Texas Health Science Center at San Antonio, USA*)

Seq#: 52 Thursday, 22 March 2012, 2 p.m. – 3:15 p.m.
Poster Session, East Hall

Dental Materials: Adhesion – Bond Strength Testing and Mechanisms – Adhesion of Luting Materials I

0219 Resin Cements Bonded on Different Treated Non-precious and Semi-precious Metal-alloys. A. ST-GEORGES*, L. NASERI, H. CIABURRO, and P. ROMPRÉ (*Universite de Montreal, Canada*)

S0220 Bond Strength of Self-adhesive Cement to Bis-acrylic Composite and Acrylate-polymer. B. MONTEIRO, S. OLIVEIRA*, S. MORGANO, and C.E. SABROSA (*Universidade do Estado do Rio de Janeiro, Rio de Janeiro, Brazil*)

0221 Bond Strengths of Repaired Composite-Repair Interface using Different Surface Treatments. A. STAHLCKER*, F. SALAMA, and F. ABDELMEGID (*Creighton University, Omaha, NE, USA*)

0222 12-Month Bond Durability of Vertise Flow to Tooth Structure. T.D. NGUYEN, X. QIAN*, and D. TOBIA (*Kerr Corporation, Orange, CA, USA*)

0223 Mineralization of resin using experimental adhesives containing hydroxyapatite. T. HOSHIKA*, Y. NISHITANI, D. PASHLEY, and M. YOSHIYAMA (*Okayama University, Japan*)

- 0224** Do Disinfectants Affect Bond Durability Between Resin-Cement and Nickel-Chromium Alloy?. P. SUKUMARAN*, R. FOXTON, and M. FENLON (*King's College London Dental Institute, United Kingdom*)
- 0225** Material Compatibility of Self-etching Self-cure 1-step Adhesive when Dentin Bonding. K. HIRATA*, S. ARMSTRONG, and F. QIAN (*University of Iowa, Tsukuba-City, Japan*)

Seq#: 53 Thursday, 22 March 2012, 2 p.m. – 3:15 p.m.
Poster Session, East Hall

Dental Materials: Ceramic-based Materials and Cements – Strength and Stress in Monolithic and Bilayered Ceramics

- S0226** Fracture Strength of Machinable Ceramic-Zirconia Discs: Effect of Thickness Ratio. M. ZAHARAN*, O. EL-MOWAFY, A. JOKSTAD, L. TAM, and A. RIZKALLA (*University of Toronto, Canada*)
- S0227** Influence of Core/veneer Thickness Ratios on Failure of Bilayered Ceramics. R. YAU* and J.R. KELLY (*University of Connecticut, Farmington, USA*)
- 0228** Bond strength of porcelain to Y-TZP with various thicknesses. A. ARREJAIE*, R. GIORDANO, and R. POBER (*University of Dammam, Riyadh, Saudi Arabia*)
- 0229** Strength of Veneer Porcelain with Various Zirconia Thickness and Sintering. A. ALAYAD*, R. GIORDANO, II, and R. POBER (*Boston University, MA, USA*)
- S0230** Effect of Sintering Temperature on Biaxial Flexural Strength of Y-TZP. T. TOSIRIWATANAPONG*, R. GIORDANO II, and R. POBER (*Boston University, MA, USA*)
- 0231** Flexural strength of two Y-TZP porcelains with various firing temperatures. A. ARREJAIE, H. ALRUMAIH*, and F. ALQARAWI (*College of Dentistry, University of Dammam, Saudi Arabia*)
- S0232** Strength of Porcelain and Zirconia Submitted to Different Cooling Methods. A. ALMEIDA, Jr.**, B.R. GALVAO, D. LONGHINI, N.B. DOMINGUES, C. SANTOS, F.O. ABIRACHED, C.A.S. CRUZ, R.G. FONSECA, and G. ADABO (*Universidade Est. Paulista Julio Mesquita, Araraquara – SP, Brazil*)
- S0233** Effect of Air-abrasion and Thermocycling on Flexural Strength of Zirconia. F. ABI-RACHED*, C. GUEDES, R. DEL CASTILLO-SALMERÓN, J. ROSALES-LEAL, J. ALMEIDA, and R. FONSECA (*Araraquara Dental School, Univ Estadual Paulista – UNESP, Araraquara – São Paulo, Brazil*)
- S0234** Effects of Polishing on Zirconia Crowns. S. CLARK*, J. SIMON, and L. DARNELL (*University of Tennessee, Memphis, USA*)
- 0235** Biaxial Flexural Strength of a New Dental Zirconia Ceramic. Y. VENTO*, J. LONDONO, G. CHICHE, D. METTENBURG, W. TWIGGS, and F. RUEGGERBERG (*Georgia Health Sciences University, Augusta, USA*)
- S0236** Monolithic Lithium Disilicate Verses Zirconia Based Ceramic: Fracture Strength. A. ALTAMIMI* and H. HIRAYAMA (*Tufts University, Medford, MA, USA*)
- S0237** Phase and Stress Analysis of a New Glass/Zirconia/Glass Restorative Material. L. REN*, C. HU, and Y. ZHANG (*New York University College of Dentistry, USA*)
- 0238** Performance of Conventional vs. Proximal-Winged CAD/CAM Laminates: Fatigue and 3D-FEA. E. ELDWAKHLY*, H. SALLAM, and A. ELRAGI (*Cairo University, Egypt*)
- S0239** Effect of stress level during mechanical cycling of dental ceramic. K. FUKUSHIMA*, H. YOSHIMURA, and P. CESAR (*University of São Paulo, Brazil*)

- 0240** Fracture Resistance of Restorative Materials subjected to Cumulative Impact Load. Y. HEO*, A. LAU, C. APARICIO, and A. FOK (*University of Minnesota, Minneapolis, USA*)
- 0241** Bond Strength of Glass Ionomer Cement to Mineral Trioxide Aggregate. I. WATANABE*, R. MURATOMI, A. EID, T. SAWASE, and T. KOMABAYASHI (*Nagasaki University, Japan*)
- 0242** Shear Bond Strength of Auto-mixing Self-adhesive Resin Cements to Zirconia. K. YOSHIDA*, K. KAMADA, and Y. TAIRA (*Nagasaki University Hospital, Japan*)

Seq#: 54 Thursday, 22 March 2012, 2 p.m. – 3:15 p.m.
Poster Session, East Hall

Dental Materials: Polymer-based Materials-Physical Properties and Performance – Light-curing and Mechanical Properties of Resin-composites

- S0243** SENB Fracture Toughness of Resin Composites after Storage in Water. S. KHAJOTIA, L. YEARY*, and M. KELLER (*University of Oklahoma Health Sciences Center, Oklahoma City, USA*)
- 0244** Ultrasonic Measurement of Polymerization Behavior of Dual-Cured Resin Cement. C. TAKUBO*, G. YASUDA, H. KUROKAWA, Y. OGURA, R. ISHII, M. KOTAKU, M. MIYAZAKI, and K. HINOURA (*Nihon University, Tokyo, Japan*)
- 0245** Physical Properties of Newer Glass-Ionomer Restorative Materials. A. STOY*, W. LIEN, K. VANDEWALLE, S. SPECK, and K. SABEY (*USAF, Lackland AFB, TX, USA*)
- 0246** Degree of Conversion of Nano-hybrid-resin-based-composites with Novel and Conventional Matrix-formulation. N. ILIE* and K. FRAUSCHER (*Ludwig-Maximilians-University, Munich, Germany*)
- 0247** Can Initial Low-intensity Curing Reduce Cuspal Flexure from Composite Shrinkage?. D. TANTBIROJN*, A. VERSLUIS, F. GARCIA-GODOY, and R. DELONG (*University of Tennessee Health Science Center, Memphis, USA*)
- 0248** Nanofilled RMGI: Fracture Toughness, Surface Roughness and Gloss Testing. J. PALASUK, S. CHO, J. PLATT, and W. BROWNING* (*Indiana University School of Dentistry, Indianapolis, USA*)
- 0249** A Clinical Evaluation Ndurance nano-dimer conversion technology dental composite. H. RITER* and M. ARAMBULA (*Loma Linda University, CA, USA*)
- 0250** Curing Condition Affects Monomer Conversion of Self-adhesive Resin Cements. T. AGUIAR, M. OLIVEIRA, C. ARRAIS, and M. GIANNINI* (*State University of Campinas/Piracicaba Dental School, Piracicaba, SP, Brazil*)
- 0251** Effects of Pre-Heating on the Properties of a Silorane-Based Composite. P. DICKSON*, W. LIEN, K. VANDEWALLE, M. WAJDOWICZ, and M. SANTOS (*USAF, Lackland AFB, TX, USA*)
- S0252** Comparison of SonicFill™ composite system with conventional bulk fill technique. M. CANNAVO*, B. MAGNUSON, M. HARSONO, R. PERRY, and G. KUGEL (*Tufts University, Boston, MA, USA*)
- S0253** Optimizing Light-cured Composite Properties with Camphroquinone and Butylhydroxytoluene Combinations. H. NASSAR* and T. CHU (*Indiana University School of Dentistry, Indianapolis, USA*)
- 0254** Depth of Cure of New Flowable Composite Resins. I. PEDALINO*, K. VANDEWALLE, G. HARTUP, and P. ROGERS (*USAF, Lackland AFB, TX, USA*)

- 0255** Cure Depth Confirmation of Novel Bulk-Fill Flowable Composite. G. KOBUSSEN*, C. CAO, A. EIGNER, J. OXMAN, M. DORUFF, R. HALVORSON, F. LAPLANT, J.L. KITTELSON, and S. BIGHAM (*3M ESPE, St. Paul, MN, USA*)
- 0256** Adaptation of PMMA/divinyl adipate resin for denture base. T. HARA*, J. TANAKA, S. IIDA, D. ARAKI, T. MIYAZAKI, S. SAKAMOTO, C. KURODA, A. KUROZUMI, M. OKA, T. MATSUMOTO, and S. MINAGI (*Okayama University, Japan*)
- 0257** Effect of Exposure Time and Distance on Composite Cure. M. DORUFF*, G. KOBUSSEN, B. HOLMES, R. HALVORSON, J. OXMAN, C. CAO, A. EIGNER, F. LAPLANT, and S. BIGHAM (*3M ESPE, St. Paul, MN, USA*)

Seq#: 55 Thursday, 22 March 2012, 2 p.m. – 3:15 p.m.
Poster Session, East Hall

Dental Materials: Other Materials – Chemistry, Properties and Performance – Dental Materials – Endodontic Materials and Techniques

- S0258** Mechanical and Physical Properties of Vital Pulp Therapy Materials. K. BENTLEY*, S. JANYAVULA, D. CAKIR, P. BECK, L. RAMP, and J. BURGESS (*University of Alabama at Birmingham, USA*)
- 0259** Thermal Analyses of Six Gutta-Percha Based Obturation Points. S.C. CHEDELLA, D. BERZINS, and S. ALAPATI* (*University of Illinois – Chicago, USA*)
- 0260** Heat absorption and transportation potential of endodontic gutta-percha. B. BRISEÑO MARROQUIN*, D. SCHÜRGER, and B. WILLERSHAUSEN (*University of Mainz, Germany*)
- 0261** Removal efficacy of intracanal medication by different techniques and chemicals. C.H. CAMARGO*, P.G. MADUREIRA, T.R. OLIVEIRA, G. SILVA, S.E. CAMARGO, and M.C. VALERA (*Universidade Est. Paulista Julio Mesquita, São José dos Campos, Brazil*)
- 0262** Effectiveness of Chemical Agents on Smear Layer and Root Permeability. F. PASCON*, F. CAVALLARO, K. KANTOVITZ, and R.M. PUPPIN-RONTANI (*State University of Campinas, Piracicaba -SP, Brazil*)
- 0263** Evaluation Of Two Root Canal Obturation Techniques: In Vitro Study. M. ALSHEHRI, F. ALSHAIL*, H. GHABBANI, and M. ALSHEHRI (*General Presidency of Youth Welfare (GPYW), Riyadh, Saudi Arabia*)
- 0264** Effects of Adhesives on Calcium-Release, PH and Bonding of TheraCal . Y. WANG* and B. SUH (*Bisco, Inc, Schaumburg, IL, USA*)
- S0265** Root Canal Dentin and Calcium Hydroxide Points Interaction in PBS. N.K. SARKAR, K. LUONG*, J. CHEUK, and J. BRAUD (*LSUHSC School of Dentistry, New Orleans, LA, USA*)
- 0266** Ions-releasing And Ability/inability To Form Apatite Of Endodontic Sealers. C. PRATI*, P. TADDEI, F. SIBONI, E. MODENA, F. IACONO, D. PASHLEY, F. TAY, and M.G. GANDOLFI (*University of Bologna, Italy*)
- 0267** Influence of Post Type on Bond Strength of Root Canal. S. BAHANNAN* (*King Abdulaziz University, Jeddah, Saudi Arabia*)
- S0268** Increased Resistance to Vertical Fracture of MTA-filled Roots. A. EL-MA'AITA*, A. QUALTROUGH, and D. WATTS (*University of Manchester, United Kingdom*)

Seq#: 56 Thursday, 22 March 2012, 2 p.m. – 3:15 p.m.
Poster Session, East Hall

Behavioral, Epidemiologic, and Health Services Research – Behavioral, Epidemiologic, and Health Services Research I

- S0269** Sugar Sweetened Beverages (SSB) And Early Childhood Caries (ECC) Risk. J. KIM*, S. RICH, W. SOHN, C. HAYES, M. HENSHAW, and R. GARCIA (*Boston University, MA, USA*)
- S0270** Pediatric Patients with Special Needs and Oral Health: Parents' Perspectives. E. PETROVA*, M. HYMAN, R.M. ESTRELLA, and M.R. INGLEHART (*University of Michigan, Ann Arbor, USA*)
- 0271** Parental Oral Health Knowledge and Behavior Among American Indians. A. WILSON*, A. BREGA, T. BATLINER, K. FEHRINGER, W. HENDERSON, E. CAMPAGNA, and J. ALBINO (*University of Colorado, School of Dental Medicine, Aurora, USA*)
- S0272** Intimate Partner Violence/Abuse – Faculty and Students' Perspectives. R. SHERIDAN* and M.R. INGLEHART (*University of Michigan, Ann Arbor, USA*)
- S0273** Pediatric Patients with Cleft Lip and/or Palate – Parents' Perspectives . S. SAHA*, R.M. ESTRELLA, and M.R. INGLEHART (*University of Michigan, Peoria, IL, USA*)
- 0274** Dimensional Analysis of Barriers to Prevention of Early Childhood Caries. M. AMIN* and A. PEREZ (*University of Alberta, Edmonton, Canada*)
- S0275** Impact of Oral Conditions on Quality of Life among Adolescents. C. BENDO*, D. GOURSAND, C. TORRES, I. PORDEUS, M. VALE, and S. PAIVA (*Universidade Federal de Minas Gerais, Belo Horizonte, Brazil*)
- S0276** Pilot Study to Identify Dentist Service Areas in Iowa. S. MCKERNAN*, R. KUTHY, A. JOSHI, and E. MOMANY (*University of Iowa, Iowa City, USA*)
- S0277** Patient Recall of Oral Cancer Screening Examinations. R. APPEL*, C. DEMKO, and J. IANNADREA D.D.S (*Case Western Reserve University, Cleveland, OH, USA*)
- 0278** Training oral health care professionals to conduct chairside medical screening. B. GREENBERG*, D. FRANCES, S. JIANG, and M. GLICK (*New Jersey Dental School – UMDNJ, Newark, USA*)
- S0279** Occupational Ocular Splashes and Foreign Bodies among Nigerian Dental Surgeons. C. AZODO and E. EZEJA* (*University of Benin Teaching Hospital, Benin City, Nigeria*)
- S0280** Knowledge, Attitude and Practices among Dentists in Relation to Hepatitis-B Infection. C. AZODO, I. UCHE*, O. AKHIONBARE, and P. OJEHANON (*University of Benin Teaching Hospital, Benin City, Edo State, Nigeria*)
- S0281** Toothache among Dental Patients Attending a Nigerian Secondary Healthcare Setting. C. AZODO and O. OLOLO* (*Rasheed Shekoni Specialist, Benin City, Edo State, Nigeria*)
- S0282** Dental Emergencies in Patients with/without Diabetes in Urban Epidemic Setting. K. OH*, J. KAZIMIROFF, N. SCHLECHT, N. REGIS BLAY, G. UMANSKI, P. MEISSNER, and J. ZONSZEIN (*Montefiore Medical Center, Bronx, NY, USA*)
- 0283** Periodontal Health Among United States Postmenopausal Breast Cancer Survivors. L. TAICHMAN* and A. NEWMAN (*University of Michigan, Ann Arbor, USA*)

Seq#: 57 Thursday, 22 March 2012, 2 p.m. – 3:15 p.m.
Poster Session, East Hall

**Behavioral, Epidemiologic, and Health Services Research –
Behavioral, Epidemiologic, and Health Services Research II**

0284 Self-reported quality removable prostheses concerns among Puerto Rican community-dwelling elderly. M. AGUILAR*, W. PSOTER, M. MONTERO, V. TRUJILLO, and K. JOSHUPURA (*University of Florida, Gainesville, USA*)

0285 Dentists' Attitudes Regarding Diagnostic Codes in Dentistry. M. BAECHLE*, A.M. BEST, and C. JANUS (*Virginia Commonwealth University – VCU/MCV, Richmond, USA*)

0286 Latino-American Athletes with intellectual disabilities: Evaluation of dental needs. L. LOPEZ DEL VALLE* and R. HANKE (*University of Puerto Rico-MSU, San Juan, USA*)

0287 Assessment of Pediatric Dental Practice Websites in the United States. S.M.H. NAINAR* (*University of Toronto, Canada*)

0288 Use of Dental Services among Low Income Pregnant Women. S. REISINE*, E. THIBODEAU, J. GOYZUETA, and K. PRESSOR (*University of Connecticut, Farmington, USA*)

0289 The Periodontal Practice Profile of General Dentists in Nova Scotia. E. GHIABI* and D. MATTHEWS (*Dalhousie University, Halifax, Canada*)

S0290 Assessing current efforts to train contemporary dentists in cultural competence. Y. BHATTI*, M. CAJEE, M. FINKELMAN, and W. WRIGHT (*Tufts University, Boston, MA, USA*)

S0291 Oral Health Status of Individuals with Glycogen Storage Disease. O. LUACES*, B. CUSHING, D. WEINSTEIN, L. SHADDOX, M. NASCIMENTO, and A. ADEWUMI (*University of Florida, Gainesville, USA*)

S0292 Socioeconomic status and oral conditions in schoolchildren from Fortaleza, CE-BRAZIL. F. FROTA*, M.B.D. GAVIÃO, and H. LAWRENCE (*Faculdade de Odontologia de Piracicaba – Universidade Estadual de Campinas, Piracicaba – SP, Brazil*)

S0293 Oral Health Disparities and Dental Care Utilization among California Adolescents. T. STAVREV*, M. ORELLANA, L. CHUNG, and P. CUBAS (*University of California – San Francisco, USA*)

S0294 Pediatric Dental Referral: Assessing the Referral Environment. K. LUDWIG* and J. KOWOLIK (*Indiana University School of Dentistry, Indianapolis, USA*)

0295 Accessibility Important in Dental Home for Children with Cerebral Palsy. J. MCQUISTON*, P. CASAMASSIMO, H. AMINI, and S. THIKKURISY (*Ohio State University, Columbus, USA*)

S0296 Assessment of Advocacy Practices of U.S. Pediatric Dentists. H. AMINI, M. LOPEZ-CEPERO*, G. PAGANO, P. CASAMASSIMO, and R. RASHID (*Ohio State University, Columbus, USA*)

S0297 Prevalence of Invasive Dental Procedures and Vascular Events. A. WATTIMENA* and D. SKAAR (*University of Minnesota, Minneapolis, USA*)

S0298 Dental Aesthetics Index and Orthodontic Treatment Needs In Young. M.A. ZAZUETA*, L. HERRERA, and M.L. CORTEZ (*Universidad Autónoma de Campeche, Mexico*)

Seq#: 58 Thursday, 22 March 2012, 2 p.m. – 3:15 p.m.
Poster Session, East Hall

**Education Research – Investigating Contemporary Students and
Their Environment**

0299 Increasing Student Research Interest With a Student Research Group Luncheon. R. CROUT*, F. MASTALERZ, G. CASTO, D. GETZ, and G. HOBBS (*West Virginia University, Morgantown, USA*)

0300 A Survey of Left Handed Dental Students and Interns. S. AL-JOHANY* (*King Saud University, College of Dentistry, Riyadh, Saudi Arabia*)

S0301 A Longitudinal Study of Stress in Dental Students and Residents. H. ELANI*, C. BEDOS, and P. ALLISON (*McGill University, Montreal, Canada*)

0302 Communication Techniques Utilized by Dental Students While Presenting Treatment Plans. M. MCQUISTAN*, M.R. POPOWSKI, F. QIAN, and C.L. STRAUB-MORAREND (*University of Iowa, Iowa City, USA*)

0303 Occupational Exposure to Infectious Biological Material among Dental Students. C. PINELLI*, T. SAMPALIO, and S. NERI (*Universidade Est. Paulista Julio Mesquita, Araraquara, Brazil*)

S0304 Assessing Dental Students' Attitudes and Knowledge about the Elderly. W. TRAINA* and P. FRIEDMAN (*Boston University, MA, USA*)

S0305 Different Study Attitudes And Behavior Among Dental Students In Taiwan. C. KUO CHOU* and S. YI-SHING (*Tri-Service General Hospital, Taiwan, Taiwan*)

S0306 Changes in Fourth Year Dental Students' Presentation of Treatment Plans. M.R. POPOWSKI*, M.R. MCQUISTAN, C.L. STRAUB-MORAREND, and F. QIAN (*University of Iowa, Iowa City, USA*)

Seq#: 59 Thursday, 22 March 2012, 2 p.m. – 3:15 p.m.
Poster Session, East Hall

Nutrition – Nutrition Research

0307 New Jersey Dental Association Dentists' Screening Practices Regarding Eating Disorders. R. SCARPA, D. RADLER, R. TOUGER-DECKER*, and J.S. PARROTT (*New Jersey Dental School – UMD, Newark, USA*)

S0308 Effects of Sweetened and Unsweetened Beverages on Caries Experience. S.K. RAFFENSPERGER*, D.E. POLK, B. JONES, and R. WEYANT (*University of Pittsburgh, PA, USA*)

0309 Periodontal Disease Progression in Men who Gain Weight. A. GORMAN, E. KRALL KAYE*, M. NUNN, and R. GARCIA (*Boston University, MA, USA*)

0310 Coffee Consumption and Periodontal Disease in Men. N. NG, E. KRALL KAYE, and R. GARCIA* (*Boston University, MA, USA*)

0311 Effects of Denture Fixatives and Nutritional Information in Denture Wearers. B. MAGGIO*, D. BARTLETT, J. THOMAS, M. FENLON, D. TARGETT, S. PATEL, and F. GONSER (*Glaxo SmithKline Consumer Healthcare, Parsippany, NJ, USA*)

S0312 Parental Attitudes Regarding Childhood Obesity Counseling in the Dental Office. C. MORRIS*, T. TRAN, W. RICH, M. BECK, and R. TSENG (*University of North Carolina at Chapel Hill School of Dentistry, USA*)

THURSDAY

Seq#: 60 Thursday, 22 March 2012, 2 p.m. – 3:15 p.m.
Poster Session, East Hall

**Cariology Research – Clinical and Epidemiological Studies –
Cariology: Epidemiological and Clinical Studies**

- 0313** Teaching of Cariology in US Dental Schools. M. FONTANA*, D. HORLAK, S. SHARPLES, M. WOLFF, and D. YOUNG (*University of Michigan, Ann Arbor, USA*)
- 0314** Caries Incidence in Initially Caries Free Preschool Children. D.T. KOPYCKA-KEDZIERAWSKI* and R.J. BILLINGS (*University of Rochester School of Medicine and Dentistry, NY, USA*)
- 0315** Retrospective Assessment of Caries Experience Among U.S. Naval Academy Midshipmen. M. STRATMEYER*, K. DIEFENDERFER, and T. LEIENDECKER (*Naval Postgraduate Dental School, Bethesda, MD, USA*)
- 0316** Oral Health Status of Venezuelan HIV+ Pregnant Women. M. GUERRA* and L. LOPEZ DEL VALLE (*Universidad Central de Venezuela, Caracas, DF, Venezuela*)
- 0317** Prevalence of Dental Caries among Autistic Children in Saudi Arabia. T. ALKHADRA* (*King Saud University, Riyadh, Saudi Arabia*)
- 0318** An Oral Health Disparity among Puerto Rican Schoolchildren. L. ORRACA*, M. MURILLO, A. ELIAS, and S. RIVAS-TUMANYAN (*University of Puerto Rico School of Dental Medicine, San Juan, USA*)
- 0319** Caries and Sugar Consumption: An Ecological Study of 85 Countries. Y. MASOOD*, M. MASOOD, M. HASSAN, and F. AL-BAYATY (*Universiti Teknologi MARA, Shah Alam, Malaysia*)
- 0320** Prevalence of Fluorosis in a Non-Fluoridated Community. S. RIVAS-TUMANYAN, L. ORRACA, M. MURILLO*, and A. ELIAS (*University of Puerto Rico School of Dental Medicine, San Juan, USA*)
- 0321** Dentine Fluoride as a Biomarker for Childhood F intake: Reliability. D. DAWSON*, J. HEILMAN, S. LEVY, B. BROFFITT, L. URIBE, and J. WEFEL (*University of Iowa, Iowa City, USA*)
- 0322** Dentine Fluoride as a Biomarker of Fluoride Intake and Fluorosis. J. WEFEL*, S. LEVY, B. BROFFITT, D. DAWSON, and J. HEILMAN (*University of Iowa, Iowa City, USA*)
- S0323** Nd:YAG laser in caries prevention: one year follow up. W. RAUCCI-NETO*, C. LEPRI, J. FARAONI-ROMANO, L. CASTRO-RAUCCI, J. GOMES-SILVA, and R. PALMA-DIBB (*University of São Paulo, Ribeirão Preto, Brazil*)
- S0324** Clinical Performance of Glass-Ionomer Sealants in High Caries Risk Children. K. KANTOVITZ*, R. RODRIGUES, A.C.G. LUCIANO, E. RODRIGUES, C. GIBILINI, F.M. PASCON, M.L.R. SOUZA, and R.M. PUPPIN-RONTANI (*State University of Campinas, Piracicaba -SP, Brazil*)

Seq#: 61 Thursday, 22 March 2012, 2 p.m. – 3:15 p.m.
Poster Session, East Hall

Cariology Research – Erosion – Cariology: Dental Erosion

- S0325** Desensitizing toothpastes with low pH to prevent erosion and abrasion. M. KATO*, L. MONTAGNOLLI, C. BARBOSA, and M. BUZALAF (*Bauru School of Dentistry – University of São Paulo, Bauru, SP, Brazil*)
- 0326** *In Vitro* Effects of Toothpastes and Saliva on Dentin Permeability. K.-A. HILLER*, I. GRILLMEIER, C. NEUBAUER, and G. SCHMALZ (*University of Regensburg, Germany*)

- S0327** Efficacy of TiF₄ varnish on dental erosion/abrasion *in situ*. F. LEVY*, D. RIOS, M.A.R. BUZALAF, and A.C. MAGALHÃES (*Bauru Dental School, Brazil*)
- S0328** Gastroesophageal Reflux Disease and Dental Erosion in Brazilian Children. P.A.D. OLIVEIRA*, S. PAIVA, M.H.N.G. ABREU, M.L.G. COSTA, A.P. HERMONT, and S. AUAD (*Universidade Federal de Minas Gerais, Belo Horizonte, Brazil*)
- S0329** Model for Assessing the Mineral Loss in Non-carious cervical lesions. E. A MARTINS*, B. AMAECHI, and R.Y. BALLESTER (*University of São Paulo, Dental School, Brazil*)
- 0330** Investigation of Treatments to Improve Hardness Recovery of Softened Enamel. M. DEHGHAN*, P.J. STANLEY, D. TANTBIROJN, and A. VERSLUIS (*University of Tennessee Health Science Center, Memphis, USA*)
- S0331** Prevention of Enamel Intrinsic Erosion Employing Nd:YAG Laser Irradiation. J. FARAONI-ROMANO*, J. DERCELI, C. LEPRI, J. PECORA, and R. PALMA-DIBB (*Universidade de São Paulo, Ribeirão Preto, Brazil*)
- S0332** Effect of calcium phosphate nanoparticles' pastes on dentin erosion. C. SOUZA-E-SILVA*, I. ROSSO, T. SIQUEIRA, A.C. MAGALHÃES, and M.A.R. BUZALAF (*Bauru School of Dentistry – University of São Paulo, Bauru, SP, Brazil*)
- 0333** Erosion of Sound/eroded Enamel Treated with Nd:YAG-Laser and Fluoride. H.M. HONÓRIO*, M.C. JORDÃO, A.C. MAGALHÃES, L. WANG, M.A.R. BUZALAF, R.S. NAVARRO, and D. RIOS (*Bauru School of Dentistry – University of São Paulo, Bauru-SP, Brazil*)
- 0334** CO₂-Laser and Fluoride on Erosion Prevention of Previously Eroded Enamel. D. RIOS*, M.C. JORDÃO, A.C. MAGALHÃES, L. WANG, M.A.A.M. MACHADO, R.S. NAVARRO, and H.M. HONÓRIO (*Bauru School of Dentistry – University of São Paulo, Bauru-SP, Brazil*)
- 0335** *In Vitro* Study of Relevant Parameters for *in Situ* Erosion-abrasion Model. A. HARA*, F. LIPPERT, M. NEHME, A. BARLOW, S. MASON, and D. ZERO (*Indiana University School of Dentistry, Indianapolis, USA*)
- 0336** Erosion-inhibiting potential of calcium pre-rinse plus fluoride rinse. C. TURSSI*, A. HARA, F.L.B. AMARAL, F.M.G. FRANÇA, and R.T. BASTING (*Sao Leopoldo Mandic Institute and Dental Research Center, Campinas, Brazil*)
- S0337** Clinical Evaluation of pH Challenges in Subjects With/Without Erosion. S. DHUHAIR*, G. NEIVA, J. DENNISON, and P. YAMAN (*University of Michigan, Ann Arbor, USA*)
- S0338** Clinical Evaluation of Non-Carious Cervical Lesions. S. SHAH, M. PRECISE*, P. BECK, D. CAKIR, L. RAMP, and J. BURGESS (*University of Alabama at Birmingham, USA*)
- S0339** The effect of mouthwashes containing biguanides on dentin loss. S. CHARONE*, M. KATO, P. DUCATI, R. FUKUSHIMA, G. GENNARO, A.C. MAGALHÃES, and M.A.R. BUZALAF (*Bauru School of Dentistry, University of São Paulo, Brazil*)
- S0340** Prevalence and Risk Factors of Dental Erosion in Children. M. HABIB*, T. HOTTEL, and L. HONG (*University of Tennessee, Memphis, USA*)

Seq#: 62 Thursday, 22 March 2012, 2 p.m. – 3:15 p.m.
Poster Session, East Hall

Implantology Research – Implant (coating) Biomechanics / Effects of Implant Coatings on Cells and Tissue Response

- S0341** Shear and Tensile Strength of Silk Coatings on Titanium Surfaces. C. MICHELSON*, R. ELIA, M. HARSONO, G. LEISK, R. LEGEROS, D. KAPLAN, and G. KUGEL (*Tufts University, Boston, MA, USA*)
- 0342** Implant Diameter: Effect on Stress in Bone: Finite Element Analysis. C. WILCOX, M. AKHTER, J. DANFORTH, J. SHEETS, and S. MCNALLY* (*Creighton University, Omaha, NE, USA*)
- S0343** Attachment of *Porphyromonas gingivalis* To Corroded Titanium Discs. C.J. YOON*, V. BARÃO, M. MATHEW, J. YUAN, C. SUKOTJO, and C. WU (*University of Illinois – Chicago, USA*)
- 0344** Coating of Titanium with Polyelectrolyte Multilayer Films Accelerates Bone Formation. W. HOONWICHIT*, M. ARKSORNNUKIT, and P. PAVASANT (*Chulalongkorn University, Bangkok, Thailand*)
- 0345** Effects of Abrasive Blasting on the Response of MC3T3-E1 Cells. J. PANTHACHAI*, M. ARKSORNNUKIT, and P. PAVASANT (*Chulalongkorn University, Bangkok, Thailand*)
- 0346** Maintenance of Biologic Width of Immediately Loaded Implants in Humans. A. POLSON*, S. LEE, D. SHARKEY, and M. FELDSTEIN (*University of Pennsylvania, Philadelphia, USA*)
- 0347** Influence Of Implant Design In Osseointegration And Streptococcus Mutans Adherence. L. VASCONCELLOS*, Y. CARVALHO, L.G. VASCONCELLOS, C.A. CAIRO, R. PRADO, D. LEITE, F. OLIVEIRA, C. RAMOS, and L. OLIVEIRA, Sr. (*University State Paulista, São José dos Campos, Brazil*)
- 0348** Strain Gauge Analysis of Axial loading in External Hexagon Implants. R. NISHIOKA*, G. NISHIOKA, L.G. VASCONCELLOS, A. KOJIMA, and F. SOUZA (*Universidade Est. Paulista Julio Mesquita, Sao Jose dos Campos, Brazil*)
- 0349** Dynamic Fatigue Testing of Narrow-Diameter Dental Implants. G. SCHRANK* and T. HANSEN (*3M ESPE, St. Paul, MN, USA*)
- S0350** Human Osteoblast Response to Porous Titanium with Biomimetic Coating. R. PRADO*, F. OLIVEIRA, L.M.R. VASCONCELLOS, L. OLIVEIRA, Y. CARVALHO, and C.A. CAIRO (*University State Paulista, São Jose dos Campos, Brazil*)
- 0351** Tissue Responses to Two Mini Dental Implants in Miniature Swine. Y. LI, S.S. LEE, W. ZHANG*, R. APRECIO, and S.L. ZUNT (*Loma Linda University, CA, USA*)
- 0352** Growth Factors Enhance Fibroblast Colonization of Different Metal Surface Topographies. R. MAYOU*, R. DZIAK, S. SUNKARA, O. NIHLAWI, and S. ANDREANA (*State University of New York – Buffalo, USA*)

Seq#: 63 Thursday, 22 March 2012, 2 p.m. – 3:15 p.m.
Poster Session, East Hall

Oral Health Research – Manual and Power Toothbrushes

- 0353** Plaque Removal Efficacy of Children's Powered Toothbrush Versus Manual Toothbrush. A. GHASSEMI*, L. VORWERK, W. HOOPER, V. PATEL, N. SHARMA, and J. QAQISH (*Church & Dwight Co., Inc, Princeton, NJ, USA*)

- 0354** Diurnal Dynamics in Plaque Regrowth Using a Novel Manual Toothbrush. H. TIMM*, R. ADAM, U. MESPLES, J. GRENDER, P. CUNNINGHAM, and S. FARRELL (*Procter & Gamble, Kronberg, Germany*)
- 0355** Single-use and 12-week Surface-specific Plaque Comparison of Two Power Brushes. J. GRENDER*, T. HE, P. WALTERS, H. REICK, and A. BIESBROCK (*Procter & Gamble Company, Mason, OH, USA*)
- 0356** Effects of Manual Toothbrush with Flexing Elements on Plaque Removal. S. FARRELL*, J.M. GRENDER, P. CUNNINGHAM, N. SHARMA, and J. QAQISH (*Procter & Gamble Company, Mason, OH, USA*)
- 0357** Effects of Manual Toothbrush with Flexing Elements on Gingivitis Reduction. P. AMINI*, J. QAQISH, S. FARRELL, J.M. GRENDER, and P. CUNNINGHAM (*BioSci Research, Las Vegas, NV, USA*)
- 0358** In-vivo and In-vitro Plaque Removal Efficacy of two Brush Heads. R. ADAM*, M. WALDMEIER, H. TIMM, B. TREBITZ, D. MARKGRAF, P. CUNNINGHAM, J. GRENDER, and M. KLUKOWSKA (*Procter & Gamble Service GmbH, Kronberg im Taunus, Germany*)
- 0359** In-vivo Plaque Removal Efficacy of Two Brush Heads. M. WALDMEIER*, H. TIMM, R. ADAM, P. CUNNINGHAM, J. GRENDER, and M. KLUKOWSKA (*Procter & Gamble Service GmbH, Kronberg im Taunus, Germany*)
- 0360** Plaque Removal of Power Brush Heads after 6-Weeks of Wear. M. KLUKOWSKA*, J. GRENDER, J. ROONEY, P. CUNNINGHAM, H. WEHRBEIN, and C. ERBE (*Procter & Gamble Company, Mason, OH, USA*)
- S0361** Wear Index of Two Electric Toothbrush Heads Over 3 Months. C. ERBE*, E. KAISER, S. THURNAY, D. MARKGRAF, S. PACK, J. GRENDER, D. HENGHELD, P. WARREN, C. JACOBS, and H. WEHRBEIN (*University Medical Centre Mainz, Germany*)
- 0362** Cleaning Performance of Worn Electric Toothbrush Heads Over 3 Months. E. KAISER*, S. THURNAY, D. MARKGRAF, S. PACK, J. GRENDER, D. HENGHELD, P. WARREN, H. WEHRBEIN, and C. ERBE (*Procter & Gamble, Kronberg, Germany*)

Seq#: 64 Thursday, 22 March 2012, 2 p.m. – 3:15 p.m.
Poster Session, East Hall

Mineralized Tissue – Current Topics in Bone Research

- 0363** Effects of Nicotine on Stem Cell-Derived Osteoblast Migration. O. ANSARI* and M. WHEATER (*University of Detroit Mercy, MI, USA*)
- S0364** Differences in Osteoclastogenic Regulatory Factors in Pediatric and Adult Subjects. K. CHRISTOPH*, J. CHO, P.-L. CHUNG, C. GORDON, B. PADWA, and J. GLOWACKI (*Harvard University, Boston, MA, USA*)
- 0365** Effect of Thymosins on Human Osteoblast Osteocalcin Secretion *in vitro*. J. BIRG* and M. WHEATER (*University of Detroit Mercy, MI, USA*)
- S0366** Viscoelastic Deformation of Mandibular Condyle Bone in Determining TMJ Osteoarthritis. A. HAGHIGHI*, Y.-H. JEONG, H. KIM, E. MOON, M.J. LEE, and D.-G. KIM (*Ohio State University, Columbus, USA*)
- S0367** Secreted frizzled related-protein 2 and Wnt signaling in osteogenic cells. N. BURBACH*, B. SWORDER, A. BERENDSEN, S. KUZNETSOV, K. HOLMBECK, N. CHERMAN, B. MCCLENDON, M. PHILLIPS, and P. GEHRON ROBEY (*University of Minnesota, Minneapolis, USA*)

THURSDAY

- 0368** Culture and Matrix metalloproteinase expression of Odontoclasts in vitro. W. ZHAO*, D. YU, J. WANG, and X. CHEN (*Institute of Stomatological Research, Sun Yat-sen University, Guangzhou, China*)
- S0369** Climatological Effects on Bone Growth. V. SCARINGI*, I. SMOLYAR, I. SHEIKH, Y. JUWAYEYI, B. HU, J. CHISI, and T.G. BROMAGE (*New York University College of Dentistry, USA*)
- 0370** Conditioning of MLO-Y4 Osteocyte like Cells to Fluid Shear Stress. F. ALOTAIBI*, K. WENGER, I. ZAKHARY, M. SHARAWY, and R. MESSER (*Georgia Health Sciences University, Augusta, USA*)
- S0371** Effects of Whole-Body Vibration on Callus Mineralization. M. BELL*, M. HAMRICK, A. PHONEPASONG, F. SADANAND, D. IMMEL, I. ZAKHARY, R. MESSER, and K. WENGER (*Georgia Health Sciences University, Augusta, USA*)
- 0372** Disruption of BMP Signaling in Osteoclasts Regulates their Differentiation. L. PHAM, K. MANSKY, K. BOLLER, E. JENSEN, A. BROEGE, A. EMERY, M.B. O'CONNOR, A. PETRYK, and R. GOPALAKRISHNAN* (*University of Minnesota, Minneapolis, USA*)
- 0373** Polycystin-2 function in cortical bone development. C. HAYCRAFT* and S. JOSEPH (*Medical University of South Carolina, Charleston, USA*)
- 0374** Generation and Characterization of Osterix-mCherry Reporter Mice. S. STRECKER*, Y. FU, and P. MAYE (*University of Connecticut, Farmington, USA*)
- 0375** Mechanical Vibration Induces Differential Responses In Osteocytes Versus Cementoblasts. D. LIU*, C. LIU, and L. YOU (*Marquette University, Milwaukee, WI, USA*)

Seq#: 65 Thursday, 22 March 2012, 2 p.m. – 3:15 p.m.
Poster Session, East Hall

Salivary Research – Clinical and Therapeutic Implications of Salivary Gland Dysfunction

- 0376** Unstimulated Salivary Flow is Decreased in Burning Mouth Patients. R. POON*, N. SU, V. CHING, M. KHAOULI, M. DARLING, and M. GRUSHKA (*University of Toronto, Canada*)
- 0377** Nanocomplexed siRNA based gene therapy in salivary gland diseases. S. ARANY*, D.S.W. BENOIT, S. DEWHURST, and C. OVITT (*University of Rochester School of Medicine and Dentistry, NY, USA*)
- S0378** Salivary protein profile modeling for studying breast cancer progression. T. LUTHER*, D. ARREOLA, C. EDWARDS, and C. STRECKFUS (*University of Texas – Houston/Health Science Center, USA*)
- S0379** Salivary Proteomic Profiling for Diabetes. H. KOHLTFARBER, S. SCHWARTZ, J. CARLSON, S. BENCHARIT, and M. MAYO* (*University of North Carolina, Chapel Hill, USA*)
- S0380** Pathological changes of oral mucosal tissues on orthodontic appliances. T. KOJIMA*, K. UCHIHASHI, N. MATSUMOTO, and Y. NISHIKAWA (*Osaka Dental University, Hirakata, Japan*)
- 0381** Development and Consumer Assessment of a Dry Mouth Rinse. M. JOZIAK*, P. PIMENTA, A. MORGAN, and M. PRENCIPE (*Colgate-Palmolive Company, Piscataway, NJ, USA*)
- S0382** Parasympathomimetic Sialogogues And Salivary Gland Dysfunction. C. GARCIA*, J. LUNA, S. KHUDER, and I. AL-HASHIMI (*Baylor College of Dentistry, Dallas, TX, USA*)
- S0383** Does Drinking Caffeinated Soft-Drink Cause Short-Term Oral Dryness?. D. AUGUSTSON*, D. TANTBIROJN, G. HILDEBRANDT, and H. GUO (*University of Minnesota School of Dentistry, Minneapolis, USA*)
- 0384** Effect of P552 on oral mucosa moisture in Sjogren's Syndrome. A. PAPAS, M. SINGH, E. TZAVARAS*, K. HATZIPETROU, P. CORRADO, and W. THELIN (*Tufts University, Boston, MA, USA*)
- S0385** Gluten-Degrading Microbes in Saliva: Novel Therapeutic Perspectives for Celiac Disease. N. TIAN*, G. WEI, M. ZAMAKHCHARI, D. SCHUPPAN, F.G. OPPENHEIM, and E. HELMERHORST (*Boston University, MA, USA*)
- 0386** Chemotherapy-Induced Salivary Glands Hypofunction: A Pilot Biochemical and Histological Study. L. CAMPOS*, A. SIMÕES, and V. ARANA-CHAVEZ (*University of Sao Paulo, Brazil*)

Seq#: 66 Thursday, 22 March 2012, 2 p.m. – 3:15 p.m.
Poster Session, East Hall

Periodontal Research – Pathogenesis – Periodontal Microbiology and Host/Bacterial Interactions

- S0387** Cytokine Induction by *Porphyromonas gingivalis* Depends on Epithelial Cell Type. P. SETHI*, M. YEE, N. DÜZGÜNES, and K. KONOPKA (*University of the Pacific, San Francisco, CA, USA*)
- 0388** *Pgingivalis* Invade Osteoblast via Integrins 5 1 and Modulate Osteoblast Cytoskeleton/Apoptosis. W. ZHANG*, J. JU, T. RIGNEY, and G. TRIBBLE (*University of Texas School of Dentistry at Houston, USA*)
- 0389** *Streptococcus intermedius* trigger virulence factors in *Porphyromonas gingivalis*. M. DE LA GARZA-RAMOS*, D. MARTINEZ-CARREON, and B. PEREYRA-ALFEREZ (*Universidad Autonoma de Nuevo Leon, Monterrey, Mexico*)
- S0390** TNF-alpha and P. gingivalis Lipopolysaccharides Decrease PDL Fibroblast Periostin Expression. M. PADIAL-MOLINA*, J. RODRIGUEZ, S.L. VOLK, J.T. MARCHESAN, W.V. GIANNOBILE, and H.F. RIOS (*University of Michigan, Ann Arbor, USA*)
- 0391** *Porphyromonas gingivalis* Infection-induced Oral and Systemic Changes in ApoE^{null} Mice. I. VELSKO*, M. RIVERA, S. CHUKKAPALLI, J.-Y. LEE, H. CHEN, I. BHATTACHARYYA, A. LUCAS, and L. KESAVALU (*University of Florida, Gainesville, USA*)
- S0392** Immune Signaling in TLR9-/- Murine Macrophages Infected with *Porphyromonas gingivalis*. C. WARREN*, T. WYANT, S. YANAMANDRA, H. MIYAZAKI, A. YEUDALL, and J. LEWIS (*Virginia Commonwealth University – VCU/MCV, Glen Allen, USA*)
- 0393** Antiplatelet Agents Inhibit Oral Bacteria Induced Platelet Aggregation in Vitro. E. WHITAKER*, N. THAKKAR, S. SOMERSET, and C. LESTER (*Temple University, Philadelphia, PA, USA*)
- 0394** Nicotine, LPS, TNF, and EGCG Differentially Affect Interleukin Secretion. A. AL MOUABBI* and M. WHEATER (*University of Detroit Mercy, MI, USA*)
- 0395** Cotinine Related to Inflammatory Mediators and Antibody to Oral Bacteria. M. STEFFEN, M. AL-SABBAGH, B. FULLER, A. MCGUIRE, and J. EBERSOLE* (*University of Kentucky, Lexington, USA*)
- S0396** Smoking Differentially Modulates Epithelial Responses To Commensal And Pathogenic Biofilms. S. SHAH*, J. WALTERS, P.-C. LAI, and P. KUMAR (*The Ohio State University, Columbus, USA*)

- 0397** Differences of Subgingival Microbiota between Young and Elder Rhesus Macaques. C. MURPHY*, A. KOKARAS, B. PASTER, and M. GEORGE (*Forsyth Institute, Cambridge, MA, USA*)
- S0398** Epithelial Defensin hBD-3 Activity against Periodontal Pathogens. A. JONES*, N. FINE, M. JEFFERSON, and E. THOMAS (*University of Tennessee, Memphis, USA*)
- S0399** Identifying Environmental Factors Affecting BspA Expression in *Tannerella forsythia*. N. GRASSI*, E. MISHIMA, and A. SHARMA (*State University of New York – Buffalo, USA*)
- S0400** *Treponema denticola* Induced Oral and Systemic Changes in ApoE^{null} Mice. S. CHUKKAPALLI*, M. RIVERA, I. VELSKO, J.-Y. LEE, H. CHEN, I. BHATTACHARYYA, A. LUCAS, and L. KESAVALU (*University of Florida, Gainesville, USA*)
- 0401** Effect of Periodontal Therapy on Subgingival Taxa Identified Using HOMIM. A. KOKARAS*, S. COTTON, M. RYDER, C. MURPHY, B. PASTER, A. HAFFAJEE, F. TELES, and R. TELES (*The Forsyth Institute, Cambridge, MA, USA*)
- S0402** Comparative Genomics Of *Aggregatibacter actinomycetemcomitans* Isolates From Primates and Humans. M. KARCHED*, D. FURGANG, V. SAMPATHKUMAR, and D. FINE (*New Jersey Dental School – UMDNJ, Newark, USA*)
- 0403** Bis-enoxacin Inhibited Alveolar Bone Loss and Gingival Inflammation in Rats. M. RIVERA*, J.-Y. LEE, S. CHUKKAPALLI, I. VELSKO, I. BHATTACHARYYA, L. HOLLIDAY, and L. KESAVALU (*University of Florida, Gainesville, USA*)

Seq#: 67 Thursday, 22 March 2012, 2 p.m. – 3:15 p.m.
Poster Session, East Hall

Craniofacial Biology – Orthodontic Outcomes

- S0404** Orthodontic Tooth Movement Influences Face Mechanical Sensitivity and Motor-Cortex. M. SOOD*, J. LEE, P. BHATT, and B.J. SESSLE (*University of Toronto, Canada*)
- 0405** Circumaxillary Suture Stain during Midpalatal Suture Opening and Maxillary Protraction. R. JACKSON*, H. FIELDS, W. JOHNSTON, and Z. SUN (*Ohio State University, Columbus, USA*)
- S0406** Effect of Sealants on White Spot Lesions During Orthodontic Treatment. S. HARRIS*, P. BUSCHANG, and P. CAMPBELL (*Baylor College of Dentistry, Dallas, TX, USA*)
- S0407** Can Invisalign's Clincheck Models Accurately Predict the Treatment Outcome?. S. SHAW*, M. ROSS, P.M. CAMPBELL, D. CROSBY, and P. BUSCHANG (*Baylor College of Dentistry, Dallas, TX, USA*)
- S0408** Comparative Efficiency of Invisalign and Conventional Edgewise Braces. M. ROSS*, S. SHAW, D. CROSBY, P.M. CAMPBELL, and P. BUSCHANG (*Baylor College of Dentistry, Dallas, TX, USA*)
- S0409** Comparison of appliance versus overall treatment changes in ClassII correction. A. CHHIBBER*, M. UPADHYAY, F. URIBE, and R. NANDA (*University of Connecticut Health Center, Farmington, USA*)
- 0410** Class III Treatment using Kiebach Expansion Appliance and Protraction Facemask. P. NGAN*, E. REED, C. MARTIN, T. RAZMUS, T. KIEBACH, and E. GUNEL (*West Virginia University, Morgantown, USA*)
- S0411** Inclusion of Second Molars and Outcomes of Orthodontic Treatment. K. HUNGATE*, H.K. KANG, S. LIU, K. KULA, and K. STEWART (*Indiana University School of Dentistry, Indianapolis, USA*)

- S0412** Arch Width Changes During Orthodontic Treatment of Class II Malocclusions. H. ZWEIFEL* and F. CURRIER (*University of Oklahoma, Oklahoma City, USA*)
- 0413** Smallest Detectable Changes In Alar Base Width. J. FUNT, X. ZHANG*, J. MIRABELLA, M. ALARBI, and P. VIG (*Jacksonville University, FL, USA*)
- S0414** Trends in Orthodontic Research Over the Last Fifty Years. J. RYAN* and J. RUGH (*University of Texas – San Antonio / Health Science Ctr, USA*)
- S0415** Accuracy of PubMed Classification of Orthodontic Randomized Controlled Trials. M. KEY*, J.D. RUGH, and J.P. HATCH (*University of Texas – San Antonio / Health Science Ctr, USA*)
- S0416** Comparison of Clinical Queries and EviDents for Orthodontic Literature Searches. J. PHILIP*, J. RUGH, J.P. HATCH, V. RAJ, C. KARTALTEPE, and E. KARTALTEPE (*University of Texas – San Antonio / Health Science Ctr, USA*)
- 0417** Dental Treatment Strategies In Patients With Cleidocranial Dysplasia. S.G. ZHENG*, Y. SI, C.Y. ZHANG, and X.Z. WANG (*Peking University School and Hospital of Stomatology, Beijing, China*)

Seq#: 68 Thursday, 22 March 2012, 3:30 p.m. – 4:45 p.m.
Poster Discussion Session, Ballroom D

Dental Materials: Ceramic-based Materials and Cements – Mechanical, Reliability, and Optical Properties of Enamel and Ceramics (PDS)

Chairpersons: M. Aboushelib and M. Muniz

3:30 p.m. Poster Viewing.

- 0418** 3:50 p.m. Wear of enamel opposing aged zirconia. S. JANYAVULA, N. LAWSON*, D. CAKIR, P. BECK, L. RAMP, and J. BURGESS (*University of Alabama at Birmingham, USA*)
- 0419** 3:57 p.m. Polish After Toothbrushing of a New CAD/CAM Block Material. V. RUSSELL*, R. RUSIN, S. BROWN, W. CHRISTEN, and C. NORMAN (*3M ESPE Dental, St. Paul, MN, USA*)
- 0420** 4:04 p.m. Quantitative Analysis of Chipping on CAD/CAM-milled Edges. J. ROLF*, R. RUSIN, and V.A. RUSSELL (*3M ESPE Dental, St. Paul, MN, USA*)
- S0421** 4:11 p.m. Optical Properties of Novel Graded Glass-Zirconia Crowns. M. MUNIZ*, M. PINES, and Y. ZHANG (*New York University, USA*)
- 0422** 4:18 p.m. Translucency and Biaxial Flexural Strength of Dental Ceramics. F. WANG* and H. TAKAHASHI (*Fourth Military Medical University, Xi'an, China*)
- S0423** 4:25 p.m. Reliability Model for a Dental Glass-Ceramic with Multiple Flaw Populations. G. JOSHI*, Y. DUAN, K. ST. JOHN, T. HILL, A. DELLA BONA, and J. GRIGGS (*University of Mississippi Medical Center, Jackson, USA*)

Seq#: 69 Thursday, 22 March 2012, 3:30 p.m. – 4:45 p.m.
Poster Session, East Hall

Prosthodontics Research – Prosthodontics Clinical Research

- 0424** A Study on Antimicrobial Effectiveness of Denture Cleansers in Partial. K. BAXTER, P. FERNANDEZ, J. DUROCHER, J. VERRAN, F. GONSER*, and R. KAPIKIAN (*GlaxoSmithKline Consumer Healthcare, Parsippany, NJ, USA*)
- 0425** Evaluating occlusion using centric relation records at different vertical dimensions. J. FISCHER, M. JONES, N. OLVERA, and J. JONES* (*University of Texas at San Antonio, USA*)
- 0426** Determining the relationship of an arbitrary and true hinge axis. M. JONES, J. FISCHER, N. OLVERA*, and J.D. JONES (*University of Texas – San Antonio / Health Science Ctr, USA*)

- 0427** Comparison of third points of reference of two facebows. J. FISCHER*, M. JONES, C.F. ZHU, and J. JONES (University of Texas at San Antonio, USA)
- S0428** The accuracy of two implant impression techniques using Surgical Guide. S. CASTANHARO*, G. HATANAKA, E. AVILA, M. DEL ACQUA, J. VASCONCELOS, and F. MOLLO JR (Universidade Est. Paulista Julio Mesquita, Araraquara, Brazil)
- 0429** Kinesiographic Study of Replacing Complete Dentures to Implant-Supported Fixed Dentures. M. COMPAGNONI*, A. PERO, A. PALEARI, L. RODRIGUEZ, J. MARRA, D. MARIN, and G. GIRO (Universidade Est. Paulista Julio Mesquita, Araraquara, Brazil)
- 0430** Immediate load full-arch mandibular implant-retained FDPs over 3-years RCT. A. JOKSTAD* and H. ALKUMRU (University of Toronto, Canada)
- 0431** Relation between Chewing Gum Containing Wax Particles and Occlusal Force. M. OKUZAWA*, K. KAWASHIMA, K. GOSHIMA, and H. MIURA (Tokyo Medical & Dental University, Japan)
- 0432** New Approach for Evaluation of Masticatory Performance. S. IKEDA*, K. GOSHIMA, K. KAWASHIMA, and H. MIURA (Tokyo Medical & Dental University, Japan)
- 0433** Attitude of Graduate Students on Mixing Techniques for Impression Materials. G. RIBEIRO, L. VASCONCELOS, L. MIRAGAYA, S. MORGANO, and C.E. SABROSA* (Universidade do Estado do Rio de Janeiro, Rio de Janeiro, Brazil)
- S0434** Attitude of Professors on Mixing Techniques for Impression Materials. L. VASCONCELOS, B. SARTORI*, S. MORGANO, and C.E. SABROSA (Universidade do Estado do Rio de Janeiro, Rio de Janeiro, Brazil)
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- Seq#: 70 Thursday, 22 March 2012, 3:30 p.m. – 4:45 p.m.**
Poster Session, East Hall
- Dental Materials: Adhesion – Bond Strength in Orthodontics and Adhesive Materials**
- 0435** Bond Strength and Failure Mode of Two Packable Resin Composites. C.A. LASPRILLA, M.H. PEÑA, F.R. YEE, G. ARDILA, and J.R. RIVERA* (Fundación Centro de Investigación y Estudios Odontológicos-CIEO, Bogotá, Colombia)
- 0436** Tensile Bond Strength of New Filling Systems. T. SUZUKI*, K. HUKUDOME, and H. KAZAMA (Tokuyama Dental Corporation, Tsukuba, Japan)
- 0437** Effect of refrigerant-spray cold treatment on orthodontic bracket debond strength. M. GREAVES*, L. GOSSETT, L. IWASAKI, Y. WANG, Y. LIU, and M.P. WALKER (University of Missouri -Kansas City, USA)
- 0438** Bond Strengths of Nanocomposite Using Different Conditioners and Bonding Agents. L. NORTH*, T.A. IMBERY, A.M. BEST, and P.C. MOON (Virginia Commonwealth University – VCU/MCV, Richmond, USA)
- 0439** Bond Strength of Silorane and Methacrylate-Based Composites to Resin-Modified Glass-Ionomers. C. NUTTALL*, K. VANDEWALLE, J. CASEY, and K. SABEY (USAF, Lackland AFB, TX, USA)
- 0440** Comparison of Two Methods for Shear Bond Strength Testing. K. BRASWELL*, E. SWIFT, and R. WALTER (UNC Chapel Hill, NC, USA)
- 0441** Shear Bond Strength of Three Resin-modified-glass-ionomers Following Six Surface Treatments. R. AMOS*, T.A. IMBERY, A. DUNCAN, A. NAMBOODIRI, A.M. BEST, and P.C. MOON (Virginia Commonwealth University – VCU/MCV, Richmond, USA)
- 0442** Influence of Bonded Surface Area and Crosshead-speed on Bond Strength. Y. TAMURA*, K. TSUBOTA, K. SHIRATSUCHI, Y. SHIMIZU, A. IROKAWA, T. TAKAMIZAWA, S. ANDO, M. MIYAZAKI, and M. LATTA (Nihon University, Tokyo, Japan)
- 0443** Shear bond-strength and AFM-evaluation of bonded interface of flexible restorative. K. SAEKI*, A. CHIN, S. MARSHALL, and G. MARSHALL (University of California – San Francisco, USA)
- 0444** Comparative Shear Bond Strengths of Orthodontic Adhesives with sealants/bonding resin. E. KAO*, A. ISBLE, J. MITCHELL, T. TOMBLYN, P. NGAN, and S. WEARDEN (West Virginia University, Morgantown, USA)
- 0445** Antisensitivity Toothpastes Effect on Dentin Shear Bond Strength. L. LE*, A. BOGHOSIAN, and P. MONAGHAN (Sherman Dental Associates, Evanston, IL, USA)
- 0446** Investigation of Shear Bond Strength for Self Etch Adhesive Resins. E. LEVINE*, H. STRASSLER, and H. XU (University of Maryland Dental School, Baltimore, USA)
- S0447** Bond Strength Comparisons of Six Cements to Premise Indirect Composite. C. ELLIOTT*, G. FREY, and J. ONTIVEROS (University of Texas – Houston/Health Science Center, USA)
- S0448** Orthodontic Bracket Tensile Bond Strength of Recycled Bovine Enamel. E. CIULA*, S. ISIKBAY, and T. KATONA (Indiana University School of Dentistry, Indianapolis, USA)
- S0449** Bond strength of Orthodontic Brackets to Enamel with Different Cements. J. CHAN*, I. FERRETO, and H. CACERES (Universidad de Costa Rica, San Jose, Costa Rica)
- 0450** Influence of Lactic Acid Aging on Bond Strength of Bracket. F. ALSULAIMANI* and M. AYAD (King Abdulaziz University, Jeddah, Saudi Arabia)
- S0451** Laser Effect on Bond Strength of a Self-adhesive Flowable Composite. A.R. YAZICI, I. AGARWAL*, M. CAMPILLO FUNOLLET, T. MANG, C. MUNOZ-VIVEROS, S. CANTONSON, and D. ANTONSON (State University of New York – Buffalo, USA)
- 0452** Bond Strength of Orthodontic Cement at Different Time Intervals. I. FERRETO*, A. AGUILAR, L. RODRIGUEZ, and H. CACERES (Univ. of Costa Rica, San Jose, Costa Rica)
- 0453** Tribocorrosion of Different Sealants in Sliding Contact with Human Teeth. R. GALO*, M. CONTENTE, and M.C. BORSATTO (University of São Paulo, Sertãozinho, Brazil)
- 0454** Influence Of Photoactivation Method On Bond Strength And Microhardness Composites. M. SINHORETI*, A. CORRER, L. CORRER-SOBRINHO, A. COSTA, and T. TAVARES (University of Campinas, Piracicaba, SP, Brazil)
- 0455** Photoelastic Analysis Of Composite Shrinkage Stress Photoactivated By Different Methods. A. CORRER*, L. CORRER-SOBRINHO, A. COSTA, T. TAVARES, and M. SINHORETI (University of Campinas, Piracicaba, SP, Brazil)
- S0456** Waiting Time Prior Adhesive Photo-Activation Affects Bond Strength To Dentin. D. SCHEFFEL*, H. RICCI, R. ESTRELA, C.A. DE SOUZA COSTA, and J. HEBLING (Universidade Est. Paulista Julio Mesquita, Araraquara, Brazil)
- 0457** Inhibitory Properties and Shear Bond Strength of Benzalconium Chloride-containing Adhesives. S. PATEL*, C. SABATINI, and F. SCANNAPIECO (State University of New York – Buffalo, USA)

Dental Materials: Adhesion – Adhesion-Leakage/Margin Assessments I

S0458 Microleakage Evaluation of Delayed Versus Immediate Light Cured Flowable Composite. M. KREITZER*, A. MARIANO, M. HARSONO, M. FINKELMAN, and G. KUGEL (*Tufts University, Boston, MA, USA*)

S0459 Effect of Bulk/Incremental Fill on Internal Integrity of Bulk-fill Composites. M. TADROS*, A. FURNESS, S. LOONEY, and F. RUEGGEBERG (*Georgia Health Sciences University, Augusta, USA*)

0460 Composite Resin Restoration Microleakage Following Laser Conditioning and Acid Etching. F. ARBABZADEH-ZAVAREH*, P. SAMIMI, R. BIRANG, and M. ESKINI (*Isfahan University of Medical Sciences, Iran*)

S0461 Effect of Polishing Direction on Marginal Adaptation of Composite Resins. L. ST-PIERRE*, C. BERGERON, F. QIAN, M. HERNANDEZ, J. KOLKER, D. COBB, and M. VARGAS (*University of Iowa, Iowa City, USA*)

0462 Influence of different liners and degradation on composite restoration performance. R.M. PUPPIN-RONTANI*, R. ALONSO, D. PEREIRA, L.E. GUIDUCE, and G. ARAÚJO (*State University of Campinas, Piracicaba -SP, Brazil*)

S0463 Liner type and chewing simulation effect on marginal/internal composite adaptation. J. PUPPIN-RONTANI*, R.M. PUPPIN-RONTANI, R. ALONSO, D. PEREIRA, L.E. GUIDUCE, and G. ARAÚJO (*UNESP, Piracicaba, Brazil*)

S0464 Sealing Abilities of Latest All-in-one Adhesives under Thermo-mechanical Cyclic Stress. S. AKIYAMA*, M. MAENO, M. HARA, T. YAMADA, Y. NARA, and I.L. DOGON (*Nippon Dental University, Tokyo, Japan*)

0465 SEM/TEM Analysis of Self-Adhesive Cements: Pulpal Pressure and IDS. A. REIS*, V.B. SANTANA, R.S. ALEXANDRE, and J.A. RODRIGUES (*Guarulhos University, Guarulhos, SP, Brazil*)

0466 Microleakage of Class II Preparations Restored With The SonicFill System. C. MUNOZ-VIVEROS*, A.R. YAZICI, I. AGARWAL, and M. CAMPILLO-FUNOLLET (*State University of New York – Buffalo, USA*)

S0467 Comparative analysis between the marginal gap of different copings. M. SOLON-DE-MELLO*, A.C. TEIXEIRA, J.L. AGUILAR, and W.M. FROSSARD (*State University of Rio de Janeiro, Brazil*)

0468 Morphological Assessment of Aged Adhesive Interfaces. S. GERALDELI*, R. CARVALHO, A. MANSO, and D. PASHLEY (*University of Florida, Gainesville, USA*)

S0469 Interfacial Characterization of a New Universal Dentin Adhesive. A. SEZINANDO* and J. PERDIGAO (*Instituto Superior de Ciências da Saúde Egas Moniz, Monte da Caparica, Portugal*)

Dental Materials: Color and Appearance I

S0470 *In vitro* study on the Prevention of Re-Staining After Office-Bleaching. Y. IMAMURA*, M. OTSUKI, Y. YUAN, and J. TAGAMI (*Tokyo Medical & Dental University, Japan*)

0471 Comparison of the Whitening Effects of Three Commercial OTC Products. M.S. PUTT, M.H. MOORE, M. FARRELL, D. BROWN*, and A. ALI (*Dentovations Inc, Boston, MA, USA*)

0472 Color Stability and Drink Sorption of Resin Composites. R. RAKSAKMANUT* and C. MANEENUT (*Chulalongkorn University, Bangkok, Thailand*)

0473 Whitening Effects of Two Commercial Whitening Dentifrices on Intrinsic Stain. M.S. PUTT, M.H. MOORE*, D. BROWN, A. ALI, and M. FARRELL (*Indiana University-Purdue University, Fort Wayne, USA*)

0474 Discoloration of Resin Composites After Immersion in Different Oriental Foodstuffs. T. MASEKI*, H. KOSAKA, E. SAKAI, M. SATO, N. TANAKA, N. TSUNODA, and Y. MASAOKA (*Nippon Dental University, Tokyo, Japan*)

0475 Stain Resistance of Resin Modified Glass Ionomer Restoratives. C. DECOTEAU, M. OGLEDZKI, S. MACDONALD*, R. PERRY, and G. KUGEL (*Tufts University, Boston, MA, USA*)

0476 Labeled Versus Actual Concentration of Bleaching Agents. B. MATIS*, J. MATIS, Y. WANG, S. MONTEIRO, T. AL-QUNAIAN, and R. MILLARD (*Indiana University, Indianapolis, USA*)

S0477 Translucency of Resin Modified Glass Ionomer Restoratives. C. DECOTEAU*, M. OGLEDZKI, R. PERRY, and G. KUGEL (*Tufts University, Boston, MA, USA*)

0478 Whitening Efficacy and Color Degradation Profile of 2-Hour Whitening Strips. C. GARCIA-GODOY, D. TRUEHART*, J.K. ROTHROCK, S. FARRELL, M.K. ANASTASIA, E. CONDE, and V. WIDMEYER (*Nova Southeastern University, Ft. Lauderdale, FL, USA*)

0479 Evaluation of the Color and Optical Properties of Estelite Omega. C. TORIYABE*, H. AKIZUMI, M. OGURI, and H. KAZAMA (*Tokuyama Dental Corporation, Ibaraki, Japan*)

0480 Color Difference Between Resin Cement and Try-in Paste. M. YAMASE*, T. MASEKI, T. NITTA, A. SHIROTA, T. YAMADA, and Y. NARA (*The Nippon Dental University Hospital, Tokyo, Japan*)

0481 Chemical Activation Versus Light activation on Bleaching Efficacy. C.R.G. TORRES*, C.A. GUIMARAES, Z.E.A. RIBEIRO, and A.B. BORGES (*UNESP – São Paulo State University, São José dos Campos School of Dentistry, São José dos Campos – São Paulo, Brazil*)

S0482 Color Alteration and H₂O₂ Penetration Caused by Different Bleaching Protocols. L. DE ALMEIDA*, A.L.F. BRISO, F.A. DE AZEVEDO, M.O. GALLINARI, C. COSTA, and P.H. DOS SANTOS (*Universidade Est. Paulista Julio Mesquita, Araçatuba, Brazil*)

S0483 Comparison of Spectrophotometer to Colorimeter Digital Shade-Guide by Delta-E Values. L. SLOWIKOWSKI*, M. HARSONO, J. ORFANIDIS, M. FINKELMAN, S. NAGAI, C. ANDERSON, and G. KUGEL (*Tufts University, Boston, MA, USA*)

S0484 Pre and Post Rinsing Effects on Teeth Bleaching. M. TIMMENY*, M. HARSONO, L. FOX, G. KUGEL, and R. PERRY (*Tufts University, Boston, MA, USA*)

Diagnostic Sciences – Diagnostic Sciences II

0485 Prevalence of malocclusion in a Qatari Population. A. SALEEM*, M. ALP TAVAS, T. JEIROUDI, and T. EL-BIALY (*University of Alberta, Edmonton, Canada*)

0486 AP Relationship of the Maxillary Central Incisors to the Forehead. C. MARTIN*, M. ADAMS, W. ANDREWS, T. TREMONT, T. RAZMUS, E. GUNEL, and P. NGAN (*West Virginia University, Morgantown, USA*)

0487 Study of the Prevalence of Dental Anomalies among Orthodontic Patients. A. ALAMIRI and S. TABBA* (*State University of New York – Buffalo, Amherst, USA*)

0488 Effects of Mandibular Positional Changes on Airway Dimensions. D. WARD*, K. KULA, G.J. ECKERT, and A. GHONEIMA (*Indiana University School of Dentistry, Indianapolis, USA*)

0489 Reliability of the Conventional, Digital and CT Created Cephalograms. A. GHONEIMA*, S. ALBARAKATI, A. BAYSAL, T. UYSAL, and K. KULA (*Indiana University School of Dentistry, Indianapolis, USA*)

S0490 Cervical Vertebral Maturation Method for Cleft Palate Patients. E. MOON*, L. KNOBLOCH, R. KERBY, and D.-G. KIM (*Ohio State University, Columbus, USA*)

S0491 Assessment of Skeletal Maturation based on Cervical Vertebrae in CBCT. J. SHIM*, G. HEO, and M. LAGRAVÈRE (*University of Alberta, Edmonton, Canada*)

0492 Factors Affecting Alveolar Bone Height Measurements from CBCT Images. R. WOOD*, G. ENGLAND, B.C. TEE, J. CHAUDHRY, and Z. SUN (*Ohio State University, Columbus, USA*)

0493 Validating 2D radiographic markers using ConeBeam CT to diagnose osteoporosis. A. TADINADA*, K. RENGASAMY, D. PENDRYS, P. TAXEL, D. SHAFER, D. ORTIZ, S. REISINE, and M. FREILICH (*University of Connecticut, Farmington, USA*)

0494 Comparison of Linear Measurements Obtained from CBCT and Dental Impressions. S. STRICKLAND* (*University of Alabama, Homewood, USA*)

0495 Detection of Horizontal Root-fracture: Comparison of CT and Intra-oral Radiography. M. IIKUBO*, T. SANO, K. KOBAYASHI, I. KOJIMA, M. SAKAMOTO, N. SHOJI, T. SASANO, A. KATSUMATA, and E. ARIJI (*Tohoku University, Sendai, Japan*)

0496 Regional Variation of Bone Mineralization in the Human Mandible. T. TAYLOR*, S. GANS, E. JONES, A. FIRESTONE, W. JOHNSTON, and D.-G. KIM (*Ohio State University, Columbus, USA*)

Seq#: 74 Thursday, 22 March 2012, 3:30 p.m. – 4:45 p.m.
Poster Session, East Hall

Geriatric Oral Research

0497 Oral Health in Older Adults at The End of Life. X. CHEN*, J.S. PREISSER, J.J. CLARK, and S. NAORUNGROJ (*University of North Carolina, Chapel Hill, USA*)

0498 Risk Factors Associated with Dry Mouth in Dependent Japanese Elderly. N. KAKUDATE*, T. MURAMATSU, M. ENDOH, K. SATOMURA, T. KOSEKI, Y. SATO, K. ITO, and Y. KAKINOKI (*Kyoto University, Sakyo, Kyoto, Japan*)

0499 Constructing a qualitative indicator to signify elderly oral health. A.F. BULGARELLI*, I. PINTO, W. MESTRINER JUNIOR, and S.F. MESTRINER (*Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil*)

0500 Correlation between age and oral condition of the temporomandibular disorders. W. RICCI*, A. MONTANDON, M. NAGLE, O.F. CHÁVEZ, and L.A. BARROS (*Universidade Est. Paulista Julio Mesquita, Araraquara, Brazil*)

0501 Salivary Flow Rates in Serology and Biopsy Positive pSjogren's Syndrome. M. SINGH, P. CORRADO*, E. TZAVARAS, S. SUNDARALINGAM, and A. PAPAS (*Tufts University, Boston, MA, USA*)

0502 Salivary Flow Rates in Primary and Secondary Sjogren's Syndrome. M. SINGH, S. KECK*, E. TZAVARAS, S. SUNDARALINGAM, and A. PAPAS (*Tufts University, Boston, MA, USA*)

Seq#: 75 Thursday, 22 March 2012, 3:30 p.m. – 4:45 p.m.
Poster Session, East Hall

Behavioral, Epidemiologic, and Health Services Research – Behavioral, Epidemiologic, and Health Services Research III

0503 Endodontic Care for Underserved Patients: Residents, Faculty, and Endodontists' Perceptions. P. BAUER*, M. DHARIA, N. MCDONALD, and M.R. INGLEHART (*University of Michigan, Ann Arbor, USA*)

S0504 Oral Health Practices during Pregnancy. S. ORDONEZ*, M. LOBEL, A. MONHEIT, and D. CANNELLA (*Stony Brook University, NY, USA*)

S0505 Patient-Provider Relationships – Does Gender and Attractiveness Consistency Matter?. A. BERGER* and M.R. INGLEHART (*University of Michigan, Ann Arbor, USA*)

0506 Dental Admission Test (DAT): Do Test Preparation Programs Work?. K. JOHNSON*, M.W. WOOLFOLK, K.B. MAY, and M.R. INGLEHART (*University of Michigan, Ann Arbor, USA*)

S0507 Use of ART in posterior primary teeth: a conjoint analysis. E. KATEEB*, J. WARREN, G. GAETH, P. DAMIANO, M. KANELIS, E. MOMANY, K. WEBER-GASPARI, and T. ANSLEY (*University of Iowa, Dublin, OH, USA*)

S0508 Medications Usage in Intellectually/Developmentally Disabled Adults Treated Under General Anesthesia. S. HONG*, P. STARK, and J. MORGAN (*Tufts University, Boston, MA, USA*)

0509 Fluoride and Restoration Experience in Adults with Intellectual/developmental Disabilities. K. LEONG, P. STARK*, and J. MORGAN (*Tufts University, Boston, MA, USA*)

S0510 Dental Care and Mental Illness: Dental Professionals' Perspectives and Practices. H. HYATT* and L. HEATON (*University of Washington, Seattle, USA*)

0511 Parental-perceived Oral Health Associated with children's Oral Health Behaviors. L. HONG*, T. HOTTEL, and H. MARIAM (*University of Tennessee Health Science Center, Memphis, USA*)

0512 Acceptance of Randomized Assignment in Adolescent Cleft Palate Trial. E. MCILVAINE*, C. LANE, S. AZEN, and S. YEN (*University of Southern California, Los Angeles, USA*)

0513 Kuwait Healthy Life Study: Salivary Biomarkers in 10-year old Children. H. HASTURK*, J.M. GOODSON, M. CUGINI, A. KANTARCI, A. CEKICI, P. SOPARKAR, S. AL-MUTAWA, J. ARIGA, C. FLOROS, T. YASKELL, L. SONG, V. KLEPAC-CERAJ, M. TAVARES, M.J. BEHBEHANI, and K. BEHBEHANI (*The Forsyth Institute, Cambridge, MA, USA*)

0514 Kuwait Healthy Lifestyle Study: Sleep as a Health Factor. M. TAVARES*, J.M. GOODSON, M. CUGINI, H. HASTURK, P. SOPARKAR, S. AL-MUTAWA, J. ARIGA, M.J. BEHBEHANI, K. BEHBEHANI, and E. TAVERAS (*The Forsyth Institute, Cambridge, MA, USA*)

S0515 Receiving Dental Care: A Qualitative Assessment by HIV+ Adults. N. APOLLON CHIROUZE*, D. WILLENBERG, M. DAVIS, and L.T. VERNON (*Case Western Reserve University, Cleveland, OH, USA*)

0516 Factors influencing use of risk assessment tools in dental practices. T. THYVALIKAKATH*, L. SCHULHOF, T. SCHLEYER, M. SONG, G. MAUPOME, and M. THOELE (*University of Pittsburgh, PA, USA*)

0517 Gender trends in Authorship of US and European Periodontal Literature. S. KAYEUM and E. IOANNIDOU* (*University of Connecticut, Farmington, USA*)

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Poster Session, East Hall

**Cariology Research – Demin/Remineralization – Cariology:
Demineralization and Remineralization Studies I**

0518 Influence of CO₂ Laser and Fluoride in Deciduous Caries Enamel. R. VALÉRIO*, C. ROCHA, R. GALO, M.C. BORSATTO, M.D.C. SARAIVA, and S. CORONA (Faculdade de Odontologia de Ribeirão Preto FORP-USP, Taquaritinga SP, Brazil)

0519 Effect of CO₂-laser-irradiation and Fluoride-application on Root Surface Demineralization. K. SHINKAI* and S. SUZUKI (Nippon Dental University, Niigata, Japan)

S0520 Microhardness of CO₂ Lased Enamel after Brushing and Cariogenic Challenge. A. CORRÊA-AFONSO*, L. BACHMANN, C.G. ALMEIDA, S.A.M. CORONA, R.G. PALMA-DIBB, and M.C. BORSATTO (Ribeirão Preto School of Dentistry, University of São Paulo, Brazil)

S0521 FTIR Analysis of Dentin after Laser and Bur Cavity Preparation. C. ALMEIDA*, L. BACHMANN, A.M. CORRÊA-AFONSO, and M.C. BORSATTO (Ribeirão Preto School of Dentistry, University of São Paulo, Brazil)

0522 Effect of Desensitizer Application Mode on Dentin De- and Remineralization. C. GERNHARDT*, A. ROTHER, H.-G. SCHALLER, A. FRANCKE-FREUDENBERG, and K. BEKES (Martin-Luther-University Halle-Wittenberg, Germany)

0523 In vitro remineralization of NaF pastes containing TCP or CPP-ACP. R. KARLINSEY*, A. MACKEY, D.D. BLANKEN, and K.E. FREDERICK (Indiana Nanotech, Indianapolis, USA)

0524 Lesion Formation Inhibition with NaF Pastes Containing TCP or CPP-ACP. A.C. MACKEY*, R. KARLINSEY, D.D. BLANKEN, and K.E. FREDERICK (Indiana Nanotech, Indianapolis, USA)

0525 Influence of enamel surface pretreatments on its microhardness throughout bleaching. A. LAGO, P. FREITAS*, V. SILVA, W. STEAGALL, and N. GARONE-NETTO (University of São Paulo, Santana de Parnaíba, Brazil)

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Poster Session, East Hall

**Cariology Research – Microbiological Studies / Biofilm –
Cariology: Microbiological Studies**

0526 Effect of Nicotine on *Streptococcus mutans* Sortase Activity. M. LI*, R. HUANG, X. ZHOU, and R. GREGORY (Indiana University School of Dentistry, Indianapolis, USA)

S0527 Kinetics of calcium binding and release from *S. mutans*. T. LEITÃO*, L.M. TENUTA, and J.A. CURY (Piracicaba Dental School, UNICAMP, Brazil)

0528 Cortisol enhances the biofilm formation of *Streptococcus mutans*. G. FRANCO*, M. CASTRO, L. BERTO, D. PEDRINI, S. CORTELLI, K. COGO, and P. ROSALEN (University of Taubate, Taubaté / SP, Brazil)

0529 Xylitol Inhibition of *S. mutans* Adhesion to Hydroxyapatite. K. POLOSUKHINA and S. HIGHSMITH* (University of the Pacific, School of Dentistry, San Francisco, CA, USA)

S0530 In situ Evaluation of Calcium Phosphate Ion-releasing Nanofilled Restorative Materials. M.A. MELO*, L.K. RODRIGUES, M.D. WEIR, and H.H.K. XU (Federal University of Ceara, Fortaleza Ceara, Brazil)

0531 Milk Consumption After Dry Sugary Cereal Challenge Reduces Plaque Acidogenicity. S. NAVAL, L. SALZMANN, A. KOERBU, I. PUWANI, B. JOHNSON, and C. WU* (College of Dentistry, University of Illinois at Chicago, USA)

S0532 Effect Of Nicotine On Growth And Metabolism Of *Streptococcus mutans*. R. HUANG*, M. LI, and R. GREGORY (Indiana University School of Dentistry, Indianapolis, USA)

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Poster Session, East Hall

Microbiology / Immunology – Control of Oral Infection

0533 Influence of Calcium Hydroxide on Interacanal Survival of *Enterococcus faecalis*. J. MODARESI* (Yazd dental school, Iran)

S0534 Gender Specific Effects of Periapical Tooth Lesions on Adipose Tissues. M. BLACKMAN*, R. JOHNSON, and H. ZHANG (University of Mississippi Medical Center, Jackson, USA)

0535 Removal of Tongue Biofilms With a Tounge Cleaner: Microscopic Evaluations. J. LATIMER* and A. MCBAIN (University of Manchester, United Kingdom)

S0536 Identification and Survival of Disinfectant-Resistant Bacteria in the Dental Clinic. K. RAJAPAKSHA*, R. THONDAPU, B. PASTER, C. MIN, T. ZHU, T. KAWAI, G. KUGEL, R. PERRY, and A. ALT-HOLLAND (Tufts University, Boston, MA, USA)

S0537 Evaluation of Bacterial Susceptibility to Disinfectants at the Dental Clinic. R. THONDAPU*, K. RAJAPAKSHA, C. MIN, T. ZHU, B. PASTER, T. KAWAI, G. KUGEL, R. PERRY, and A. ALT-HOLLAND (Tufts University, Boston, MA, USA)

0538 Antimicrobial Efficacy of Selected Disinfectant Solutions in Dental Clinics. R. PERRY*, R. THONDAPU, K. RAJAPAKSHA, C. MIN, T. ZHU, B. PASTER, G. KUGEL, T. KAWAI, and A. ALT-HOLLAND (Tufts University, Boston, MA, USA)

S0539 miR regulation of gene expression in stress-impaired wound healing. S. JAHEDI*, S. TYMEN, Z.J. FANG, and P. MARUCHA (University of Illinois – Chicago, USA)

0540 Antimicrobial Activities of Two Essential Oils, Myrrh and Camphor. S.S. LEE*, R.M. APRECIO, S.R. KWON, and W. ZHANG (Loma Linda University, School of Dentistry, CA, USA)

0541 Modified Drip Flow Reactor: In-vitro Biofilm Method for Evaluating Anti-plaque Agents. D. SANTOS*, L. SCHAEFFER-KORBYLO, and L. DU-THUMM (Colgate-Palmolive, Piscataway, NJ, USA)

0542 Twenty Year Survey of Bacterial Susceptibility to Triclosan. V. HARASZTHY*, P. SREENIVASAN, and J. ZAMBON (State University of New York – SUNY – Buffalo, USA)

0543 Effects of endodontic irrigants and medicaments on microorganisms and endotoxins. L. OLIVEIRA*, C. CARVALHO, A.O.C. JORGE, M.C. VALERA, L.E. MAEKAWA, S.E. CAMARGO, and L.M.R. VASCONCELLOS (Universidade Est. Paulista Julio Mesquita, São Jose dos Campos, Brazil)

0544 Evaluation of propolis as irrigant in teeth with pulp necrosis. C. CARVALHO*, L. OLIVEIRA, Sr., A.O.C. JORGE, M.C. VALERA, A.C.C. XAVIER, A. CHUNG, and B.P. GOMES (Universidade Est. Paulista Julio Mesquita, Sao Jose dos campos, Brazil)

- S0545** *Prevotella nigrescens* and antimicrobial resistance; *tetQ*, biofilm metabolism and diffusion. K. BASKIN*, V. YEUNG, T. RIGNEY, D.-H. DAO, and G. TRIBBLE (University of Texas – Houston/Health Science Center, USA)
- S0546** Residual Bioload of Disinfected Curing-Lights in a Dental School Clinic. A. AMIN*, N. YOUNGS, A. FURNESS, F. RUEGGERBERG, J. LEWIS, and R. MESSER (Georgia Health Sciences University, Augusta, USA)
- 0547** Antimicrobial Potential of Two Essential Oils on Oral Bacteria. R.M. APRECIO*, S.S. LEE, and Y. LI (Loma Linda University, School of Dentistry, CA, USA)
- S0548** Effect of HIV infection on oral microbial colonization and diversity. G. CHO*, Z. CHEN, J. SUN, D. SAXENA, D. MALAMUD, and Y. LI (New York University, USA)

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Poster Session, East Hall

Oral & Maxillofacial Surgery – Oral & Maxillofacial Surgery II

- S0549** Skull Base Asymmetry Evaluation in Non-Syndromic Patients using 3D Imaging. C. PATEL*, J.-R. HONG, J. HUANG, and J. LEE (University of California – San Francisco, USA)
- S0550** Quality of Life Outcomes, Pericoronitis Symptoms, and Third Molar Removal. S. BRADSHAW*, J. PHERO, R. WHITE, and C. PHILLIPS (University of North Carolina, Chapel Hill, USA)
- 0551** Oral and Maxillofacial Surgery Residents' Understanding of Biostatistics. A. BEST and D. LASKIN* (Virginia Commonwealth University, Richmond, USA)
- S0552** Effects of mastication dysfunction in parental rats and progeny. X. ZHANG*, K. OGAWA, and T. MAEDA (Nihon University School of Dentistry at Matsudo, Matsudo, Chiba, Japan)
- 0553** 3rd Molar Status Predicts Incident Disease of Adjacent 2nd Molars. M. ITO*, M. NUNN, T. MIYAMOTO, R. GARCIA, A. GOHEL, and E. KRALL KAYE (Nihon University School of Dentistry at Matsudo, Chiba, Japan)
- S0554** Characterizing robocasting and freeze casting HA/TCP scaffolds in bone regeneration. M. FINZEN*, W. YU, Q. FU, S.J. MARSHALL, G. MARSHALL, A. TOMSIA, and J. LEE (University of California – San Francisco, USA)
- S0555** Prevalence of MRSA in Dental Settings. S. SADEGHI*, A. ROSATO, D. SHERVIN, and D. LASKIN (Virginia Commonwealth University – VCU/MCV, Richmond, USA)
- 0556** Septic Arthritis – Does Bacterial infection Associate with Temporomandibular Pain?. S. SIEDOW*, N. JESKE, and L. WOLFORD (University of Texas – San Antonio / Health Science Ctr, USA)

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Poster Session, East Hall

Periodontal Research – Therapy – Periodontal Disease in Diabetics and Obese Subjects/Antibiotics and Periodontal Therapy/ Effects of Exercise on the Periodontium

- 0557** Antibiotic Resistance in *Centipeda periodontii* Clinical Isolates. T.E. RAMS*, J.E. DEGENER, and A.J. VAN WINKELHOFF (Temple University School of Dentistry, Philadelphia, PA, USA)
- 0558** Response to Periodontal Therapy in Subjects Who Had Bariatric Surgery. D. LAKKIS*, N. BISSADA, A. SABER, L. KHAITAN, L. PALOMO, S. NARENDHAN, and M. AL-ZAHRANI (Case Western Reserve University, Cleveland, OH, USA)

- S0559** Effect of CPC Mouthwash on Periodontal Health in Pregnant Women. N. TANNA*, A. WALANSKI, S. PARRY, R. GERLACH, M. DOYLE, and M. JEFFCOAT (University of Pennsylvania, Philadelphia, USA)
- S0560** Azithromycin Kills Invasive *Aggregatibacter actinomycetemcomitans* in Gingival Epithelial Cells. P.-C. LAI* and J. WALTERS (Ohio State University, Columbus, USA)
- 0561** Periodontal Treatment Outcome and Microbiological Findings in Prepubertal Periodontitis. J. ALBANDAR*, R. KHATTAB, and B. PASTER (Temple University, Philadelphia, PA, USA)
- 0562** Changes in Systemic Inflammatory Markers After Treatment of Chronic Gingivitis. A. ALZAHRANI*, N. BISSADA, R. JUREVIC, S. NARENDHAN, I. NOUNEH, and M. AL-ZAHRANI (Case Western Reserve University, Cleveland, OH, USA)
- S0563** Full-mouth disinfection in the treatment of periodontitis in diabetic subjects. V.R. SANTOS*, J.A. LIMA, T.S. MIRANDA, M. FAVERI, and P.M. DUARTE (Gurukullos University, Brazil)
- S0564** Periodontal Benefits of Supplementation and Exercise in Post-Menopausal Women. C. FRACCARO*, W. LIU, N. ALMUDALLAL, and L. BAHL-PALOMO (Case Western Reserve University, Cleveland, OH, USA)
- S0565** Does a woman's periodontium respond to exercise like a man's. N. ALMUDALLAL*, W. LIU, C. FRACCARO, and L. BAHL-PALOMO (Case Western Reserve University, Cleveland, OH, USA)
- 0566** Single Tooth Crown Lengthening: Reasons for Referral. H. HOLMES* and D. TATAKIS (Ohio State University, Columbus, USA)
- S0567** Neutrophil Function and Treatment Response in Diabetics with Periodontal Disease. H. HASTURK, D. NGUYEN*, F. CELEBI, H. SHERZAI, M. MCDONNELL, A. KANTARCI, and T. VAN DYKE (Forsyth Institute, Cambridge, MA, USA)
- 0568** The Diabetes and Periodontal Therapy Trial (DPTT). S. ENGBRETSON*, B. MICHALOWICZ, E. SEAQUIST, M. REDDY, C. LEWIS, T. OATES, D. TRIPATHY, J. KATANCNIK, P. ORLANDER, D. PAQUETTE, M. GELATO, N. HANSON, M. TSAI, M.J. FAZZARI, E. SCHOENFELD, and L. HYMAN (New York University, USA)

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Poster Session, East Hall

Neuroscience – Neuroscience II

- S0569** Memory-related gene expression in the rat hippocampus by the learning. S. IIDA*, D. ARAKI, T. HARA, C. KURODA, M. OKA, A. KUROZUMI, K. KAWATA, S. SAKAMOTO, T. MIYAZAKI, and S. MINAGI (Okayama University, Japan)
- S0570** SPECIFICITY of P2X3 AGONIST AND TRPV1 ANTAGONIST IN HEK293 CELLS. L. JABERI*, J.L. SALOMAN, M.K. CHUNG, and J.Y. RO (University of Maryland Dental School, Baltimore, USA)
- S0571** The Effects of URB597 in a Model of Cisplatin-Induced Hyperalgesia. C. MCSHANE*, I. KHASABOVA, and D. SIMONE (University of Minnesota, Minneapolis, USA)
- 0572** Sensory Neuron Specific Receptor Expression in Human Dental Pulp. A. MARCUZZI and M. GAUTAM* (Southern Illinois University, Alton, USA)

- S0573** Cytochrome P450 Expression in Normal and Painful Human Dental Pulp. S. ROWAN*, J.F. DE ALMEIDA, M. LI, K.M. HARGREAVES, and M. HENRY (*University of Texas – San Antonio / Health Science Ctr, USA*)
- 0574** Opioid System is Prominently Expressed in Inflamed Human Dental Pulp. M.A. HENRY*, S. LUO, M. LI, and K.M. HARGREAVES (*University of Texas – San Antonio / Health Science Ctr, USA*)
- 0575** Neurotoxic Effects of the Para-aminophenol Metabolite of Acetaminophen. N.J. MILLENBAUGH*, C.L. WIDEMAN, and S.T. SCHULTZ (*Naval Medical Research Unit – San Antonio, Fort Sam Houston, TX, USA*)
- S0576** Ligature of Masseter Tendon Invokes Nociception Determined by Meal Duration. D. MCMULLAN*, L.L. BELLINGER, and P.R. KRAMER (*Baylor College of Dentistry, Dallas, TX, USA*)
- S0577** Females Have Greater Nociceptive Responses from Ligature of Masseter Tendon. P. HODGES*, L. BELLINGER, and P. KRAMER (*Baylor College of Dentistry, Dallas, TX, USA*)
- S0578** Muscle Forces in Subjects with and without Temporomandibular Disorders. J. KOHLMEIER*, L. IWASAKI, Y. GONZALEZ, W. MCCALL, R. OHRBACH, D. MARX, and J. NICKEL (*University of Missouri -Kansas City, USA*)
- 0579** Stomatognathic Functional Patterns and Clinical Characteristics in Patients with TMJ Dysfunction. F. ANGELES-MEDINA*, M. ROMERO-REYES, P. ALFARO-MOCTEZUMA, and C. OSORNO-ESCARÉÑO (*Universidad Nacional Autonoma de Mexico, Ciudad Universitaria D.F. Mexico*)
- S0580** Analysis of Magnesium Screw Degradation in a Rabbit Using Micro-CT. S. HENDERSON*, A. ALMARZA, W. CHUNG, D.-T. CHOU, and P. KUMTA (*University of Pittsburgh, PA, USA*)
- S0581** Poly(ethylene-glycol) Scaffold System for Temporomandibular Joint Tissue Engineering with Fibrochondrocytes. P.T. CHAO*, C.K. HAGANDORA, A. PENA, J.M. TABOAS, and A.J. ALMARZA (*University of Pittsburgh, PA, USA*)
- 0582** Condylar Bone Mineral Density Differences in Anterior-Posterior and Superior-Inferior Directions. J. YOCUM*, J.R. COTTON, and B.J. SINDELAR (*Ohio University, Athens, USA*)
- 0583** Comparative Study of Postural Sway with Mouthguards in Athletes. P. GIROUARD*, N. MEHTA, and P. STARK (*Tufts University, Cap-Pele, Canada*)
- S0584** Case-Control Evaluation of Fungiform Papillae Density in Burning Mouth Syndrome. J. NAUD*, L. BENCA, M. DRANGSHOLT, and S. COLDWELL (*University of Washington, Seattle, USA*)
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- Seq#: 82 Thursday, 22 March 2012, 3:30 p.m. – 4:45 p.m. Poster Session, East Hall**
- Oral Medicine & Pathology – Oral Medicine and Pathology; Saliva**
- S0585** Infrared Microscopy of Oral Tissues to Detect Foreign Material. J. PRINDLE*, R. BAIER, and A. AGUIRRE (*State University of New York – Buffalo, Amherst, USA*)
- S0586** Myoblast-differentiation and mRNA/miRNA Expression in Developmental Mouse Tongue. K. FUJITA*, Y. SOENO, Y. TAYA, Y. SHIMAZU, K. SATO, and T. AOBA (*Nippon Dental University, Tokyo, Japan*)
- 0587** Identification Of Cell Polarity And Mechanosensing Defects In Sjogren's Syndrome. T. ENGER*, S. KHALIL, M.P. BOUCHIE, H. GALTUNG, K. SKARSTEIN, Ø. PALM, J. JENSEN, and M.A. KUKURUZINSKA (*University of Oslo, Norway*)

- 0588** Quantitative Proteomic Analysis Reveals Decreased Salivary Amylase in Oral Cancer. N. RHODUS*, K. JAMISON, M. STONE, and T. GRIFFIN (*University of Minnesota, Minneapolis, USA*)
- S0589** Detection Of HPV(16/18)–Associated Oral Cancer By HPV–E6/E7 Proteins In Saliva. R. KAUR, K. SIRCAR, II,* and K. BHAT, III (*D.J.COLLEGE OF DENTAL SCIENCES AND RESEARCH, Ghaziabad, India*)
- S0590** Salivary Lipid Binding by SPLUNC1. A. BRASSER*, K. BROGDEN, and P. WERTZ (*University of Iowa, Iowa City, USA*)
- 0591** Salivary Biomarkers of Acute Myocardial Injury. C. MILLER*, J. KOLASA, J. STEVENS, C. CAMPBELL, M. NOVAK, S. STEINHUBL, J. EBERSOLE, P. FLORIANO, N. CHRISTODOULIDES, S. REDDING, and J. MCDEVITT (*University of Kentucky, Lexington, USA*)
- 0592** Alendronate Affects Osteoblast Differentiation by Crosstalk through EphrinB1-EphB Interaction. E. SHIMIZU*, J. TAMASI, and N. PARTRIDGE (*New York University College of Dentistry, USA*)

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Craniofacial Biology – Craniofacial Anatomy

- 0593** The 3D Facial Norms Project: A Phenotypic and Genotypic Repository. S. WEINBERG*, M. MARAZITA, Z. RAFFENSPERGER, T. MAHER, K. CUENCO, P. GANDHI, M. CUNNINGHAM, C. HEIKE, C.H. KAU, and J. HECHT (*University of Pittsburgh, PA, USA*)
- S0594** Three-dimensional Soft Tissue Asymmetry in Unaffected Relatives of NSCL/P Individuals. E. WANG*, D. BLANCHETTE, C. KUMMET, S. MILLER, S. WEINBERG, M. MARAZITA, L. MORENO, and D. DAWSON (*University of Iowa, Iowa City, USA*)
- S0595** Impact of Superimposition on 3D Stereophotogrammetric Facial Landmark Reliability. D. BLANCHETTE*, D. DAWSON, C. KUMMET, E. WANG, D. DEFAY, S. MILLER, and L. MORENO (*University of Iowa, Iowa City, USA*)
- 0596** Coincidence of the Cranial Base and Soft Tissue Facial Midlines. K. MCCLOY, M. FINKELMAN, A. RAMESH*, N. MEHTA, and S. SCRIVANI (*Tufts University, Boston, MA, USA*)
- 0597** Quantifying Differences in Skull Morphology Across Population Groups. M. LAW*, C. KAU, and F. PAN (*University of Alabama, Birmingham, USA*)
- S0598** Three-Dimensional Imaging Modalities for Craniofacial Analysis in Mouse Embryos. J.H. LYU*, A. FRENCH, A. HANDA, S. RUFFINS, J. IWATA, Y. CHAI, and P. SANCHEZ-LARA (*University of Southern California, Santa Monica, USA*)
- 0599** Maxillary Lateral Incisor Agenesis in Relation to Overall Tooth Size. J. BOSIO*, J. WRIGHT, T. BRADLEY, W. LOBB, and J. PRUSZYNSKI (*Marquette University, Milwaukee, WI, USA*)
- 0600** Comparing Arch Forms from Teeth and Alveolar Bone- Asian Population. M. BOWMAN*, C. KAU, and F. PAN (*University of Alabama, Birmingham, USA*)
- 0601** Three-dimensional Airway Volumes and Most Constricted Areas in Children. K. KULA*, E.J. AHN, S. LIU, K. STEWART, G. ECKERT, S. HALUM, J. DILLEHAY, F. ERASO, and A. GHONEIMA (*Indiana University School of Dentistry, Indianapolis, USA*)
- S0602** Growth Relationships Between the Mandible and Standing Height by Occlusion. D. MEIER*, R. STALEY, and C. KUMMET (*University of Iowa, Iowa City, USA*)

S0603 Cephalometric Measurements in Adolescents with Class I Normal Occlusion. J. GRABOUSKI*, R. STALEY, and C. KUMMET (*University of Iowa College of Dentistry, Iowa City, USA*)

0604 Obesity, Skeletal Maturation and Dental Development in Orthodontic Patients. K. MACK, C. PHILLIPS, and L. KOROLUK* (*University of North Carolina, Chapel Hill, USA*)

S0605 Cephalometric Measurements in Mixed Dentitions with Class I Normal Occlusion. J. GRABOUSKI*, J.J. GRABOUSKI, R. STALEY, and C. KUMMET (*University of Iowa, Iowa City, USA*)

S0606 Digital Model Construction for Finite Element Analysis from CBCT Scans. A. BUDIMAN*, J. SHENG, and R. VIECILLI (*New York University College of Dentistry, USA*)

0607 Growth In Width of Maxillary Dental Arch In Black Females. E. RICHARDSON* (*Center For The Study of Human Growth and Development, Nashville, TN, USA*)

0608 Size of palatal shelves on the outcome of dental arch. C. CARRARA*, T.O. OZAWA, T.M. OLIVEIRA, and V.D.A.B. PASSOS (*Hospital of Rehabilitation of Craniofacial Anomalies, Bauru, Brazil*)

0609 Cleft lip and palate: 3Dimensional evaluation of the dental arch. T. OLIVEIRA*, C. CARRARA, V. FERNANDES, F. OLIVEIRA, V. PASSOS, D. GARIB, D. RIOS, S. SILVA, M. MACHADO, and T. OZAWA (*University of São Paulo, Brazil, Bauru, Brazil*)

0610 Corpus Callosum Shape in Cleft Palate: A Geometric Morphometric Analysis. C. WALTER*, T. PARSONS, M. FOGEL, A. CONRAD, P. NOPOULOS, and S. WEINBERG (*University of Pittsburgh, PA, USA*)

0611 Morphometric Analysis of Corpus Callosum Shape in Isolated Cleft Lip/Palate. M. FOGEL*, T. PARSONS, C. WALTER, A. CONRAD, P. NOPOULOS, and S. WEINBERG (*University of Pittsburgh, PA, USA*)

S0612 Orofacial Clefting and Associated Neural Tube Defects: Bronx Hospital Setting. N. REGIS BLAY*, J. KAZIMIROFF, N. SCHLECHT, K.D. OH, K. KURTZ, K. DHARMARAJAN, W. LEE, and O. TEPPER (*Montefiore Medical Center, Bronx, NY, USA*)

0613 Cleft Lip and Palate Characteristics, Combined Oro-facial Deformities in Syria. M. YOUSSEF* and A. MEKIDAD (*Dentistry, Damascus, Syria*)

S0614 Microesthetic Dental Analysis in Parents of Children with Oral Clefts. C. HOPPENS*, S. MILLER, M. MARAZITA, G. WEHBY, and L. MORENO (*University of Iowa, Iowa City, USA*)

Seq#: 84 Thursday, 22 March 2012, 4 p.m. – 4:45 p.m.
Plenary, Room 10

Distinguished Lecture Series/Plenary Sessions – AADR NSRG Student Research Group Plenary Session

Chairperson: R. D'Souza

0615 4 p.m. Panelist 1. E. EALBA* (*University of California – San Francisco, USA*)

4:15 p.m. Panelist 2. D. CHI* (*University of Washington, Seattle, USA*)

4:30 p.m. Panelist 3. S. ALAPATI* (*University of Illinois at Chicago, USA*)

POSTER CHAIR LISTING

THURSDAY, MARCH 22, 2012

Poster Sessions: 2 p.m. – 3:15 p.m.

Session #	Group	Poster #	Poster Chair
51	PB	209 – 218	Shahryar Khaliq
52	DM	219 – 225	Abdulaziz Altamimi
53	DM	226 – 242	
54	DM	243 – 257	Zeyang Xia
55	DM	258 – 268	
56	BEHSR	269 – 283	Effie Ioannidou
57	BEHSR	284 – 298	
58	EDUC	299 – 306	Yasushi Shimada
59	NUT	307 – 312	
60	CAR	313 – 324	Juanita Lozano-Pineda
61	CAR	325 – 340	
62	IMP	341 – 352	Watchawadee
63	OHR	353 – 362	Hoonwicht
64	MT	363 – 375	Brian Foster
65	SAL	376 – 386	Olga Baker
66	PERIO	387 – 403	Jennifer Shango
67	CRAN	404 – 417	

Poster Sessions: 3:30 p.m. – 4:45 p.m.

Session #	Group	Poster #	Poster Chair
69	PROS	424 – 434	Russell Wang
70	DM	435 – 457	Yong Wang
71	DM	458 – 469	Joe Ontiveros
72	DM	470 – 484	
73	DIA	485 – 496	Jerry Bouquot
74	GOR	497 – 502	
75	BEHSR	503 – 517	Amit Chattopadhyay
76	CAR	518 – 525	Rodrigo Arthur
77	CAR	526 – 532	
78	M/I	533 – 548	Ge Jin
79	OMS	549 – 556	
80	PERIO	557 – 568	Yong Hur
81	NEU	569 – 584	Eric Wohleb
82	OMP	585 – 592	Sahar Ansari
83	CRAN	593 – 614	

NOTE: * = Presenting Author
S prior to the presentation number indicates Student Presenter

All scientific sessions are located at the Tampa Convention Center.

Seq#: 85 Friday, 23 March 2012, 8 a.m. – 9:30 a.m.
Symposium, Ballroom D

Symposium – Non-fluoride Approaches to Caries Prevention

Chairperson: J. Bader

- 0616** 8 a.m. Results of the X-ACT Xylitol Trial. J. BADER* (*University of North Carolina, Chapel Hill, USA*)
8:20 a.m. Results of the PACS Chlorhexidine Trial. A. PAPAS* (*Tufts University, Boston, MA, USA*)
8:40 a.m. Results of a Trial of Ozone in the Prevention of Dental Caries. D. ZERO* (*Indiana University, Indianapolis, USA*)
9 a.m. Critical Assessment of the Current Evidence for CCP-ACP. A. RITTER* (*University of North Carolina, Chapel Hill, USA*)

Seq#: 86 Friday, 23 March 2012, 8 a.m. – 9:30 a.m.
Symposium, Room 9

Symposium – Scaffolds as Local Delivery Tools in Implant Dentistry and Periodontal Regeneration

Theme: Scaffolds for Use in Regenerative Dental Medicine

Chairpersons: B. Leblebicioglu and A. Kantarci

- 0617** 8 a.m. Designing Degradable Polymer Scaffolds Aimed for Tissue Engineering. K. MUSTAFA* (*University of Bergen, Norway*)
8:20 a.m. Biomimetic Scaffolds for Cell and Biomolecule Delivery. P. MA* (*University of Michigan, Ann Arbor, USA*)
8:40 a.m. Scaffolds for Cell Delivery and Cell Homing Approaches in Tissue Regeneration. J. MAO* (*Columbia University, New York, NY, USA*)
9 a.m. Use of Methacrylated Gelatin (GelMA) Hydrogel Scaffolds for Dental Tissue Engineering. P. YELICK* (*Tufts University, Boston, MA, USA*)

Seq#: 87 Friday, 23 March 2012, 8 a.m. – 9:30 a.m.
Symposium, Room 10

Symposium – TMJ: Stem Cell Biology and Engineering toward Clinical Translation

Theme: Stem Cell Biology in Craniofacial Tissues

Chairpersons: J. Mao, L. Iwasaki and P. Kramer

- 0618** 8 a.m. Putative Populations of Stem/Progenitor Cells Isolated From Human and Mouse TMJ. M. EMBREE* (*Columbia University, New York, NY, USA*)
8:20 a.m. Microsphere-Based Strategies for Tissue Regeneration in the TMJ. M. DETAMORE* (*University of Missouri - Kansas City, Lawrence, USA*)
8:40 a.m. MSC: Anti-inflammatory Role. A. LE* (*University of Southern California School of Dentistry, Los Angeles, USA*)
9 a.m. Hormonal Pathobiology of TMJ Degeneration: Implications to Diagnostics and Therapeutics. S. KAPILA* (*University of Michigan, Ann Arbor, USA*)

Seq#: 88 Friday, 23 March 2012, 8 a.m. – 9:30 a.m.
Oral Session, Room 14

Behavioral, Epidemiologic, and Health Services Research – Oral Health Interventions: Fidelity, Processes, and Effectiveness

Chairpersons: W. Rush and L. Heaton

- 0619** 8 a.m. Effectiveness of Computer-Assisted Guidance for Tobacco Dependence in Dental Offices. D. RINDAL*, W.A. RUSH, T. SCHLEYER, M. KIRSHNER, R. BOYLE, M. THOELE, S.E. ASCHE, T. THYVALIKAKATH, H. SPALLEK, E.C. DURAND, C.J. ENSTAD, and C.L. HUNTLEY (*HealthPartners, Minneapolis, MN, USA*)

- 0620** 8:15 a.m. Dental Providers Use a Computer-Assisted Tool to Support Tobacco interventions. W.A. RUSH*, T. SCHLEYER, M. KIRSHNER, R. BOYLE, M. THOELE, S.E. ASCHE, T. THYVALIKAKATH, H. SPALLEK, E.C. DURAND, C.J. ENSTAD, C.L. HUNTLEY, and D.B. RINDAL (*HealthPartners, Minneapolis, MN, USA*)

- 0621** 8:30 a.m. Effectiveness of a Computerized Dental Fear Treatment. S. COLDWELL*, L. HEATON, P. RUFF, B. LEROUX, N.W. PRECEDENT, and N.W. CENTER TO REDUCE ORAL HEALTH DISPARITIES (*University of Washington, Seattle, USA*)

- 0622** 8:45 a.m. Pharmacists' Oral Health Recommendations to Patients with Mental Illness. L. HEATON*, D. DOWNING, and P. MILGROM (*University of Washington, Seattle, USA*)

- 0623** 9 a.m. Evaluating Training of Oral Physicians. D. GIDDON*, R. HERTZMAN-MILLER, J. OUTLAW, N. JAYARATNE, and B. SWANN (*Harvard School of Dental Medicine, Boston, MA, USA*)

- 0624** 9:15 a.m. Fidelity of a prenatal motivational counseling intervention: Baby Smiles study. P. WEINSTEIN, C. RIEDY*, G. GARSON, and L. MANCL (*University of Washington, Seattle, USA*)

Seq#: 89 Friday, 23 March 2012, 8 a.m. – 9:30 a.m.
Oral Session, Room 15

Craniofacial Biology – Craniofacial Imaging and Applications

Chairpersons: R. Khullar and K. Kula

- 0625** 8 a.m. Relationship Between Frankfurt "Plane" and Inferences About Chin Growth. S. BAUMRIND*, H. OH, and S. CURRY (*University of the Pacific, San Francisco, CA, USA*)

- S0626** 8:15 a.m. Quantifying 3-Dimensional Cephalometric Measurements: An Exploratory Approach using Fourier Descriptors. R. KHULLAR* and W. MOON (*University of California – Los Angeles, USA*)

- S0627** 8:30 a.m. A Comparison of Movement Rate in Two Canine Retraction Strategies. S. LI*, J. CHEN, S. LIU, K. KULA, and R. VIECILLI (*Indiana University Purdue University, Indianapolis, USA*)

- 0628** 8:45 a.m. Comparison of Facial Measurements Using 2D and 3D Photography. B. LARSON*, V. LEON-SALAZAR, A. SODERHOLM, and P. GAILLARD (*University of Minnesota, Minneapolis, USA*)

- S0629** 9 a.m. Impact of Midline Rotational Standardization on Estimates of Facial Asymmetry. C. KUMMET*, D. BLANCHETTE, D. DAWSON, D. DEFAY, S. MILLER, and L. MORENO (*University of Iowa, Iowa City, USA*)

- S0630** 9:15 a.m. Digital Image Analysis for Reliable Characterization of Cleft Wound Phenotypes. B. SMITH*, L. MORENO, S. MILLER, G. WEHBY, and M. DUNNWALD (*University of Iowa, Iowa City, USA*)

Seq#: 90 Friday, 23 March 2012, 8 a.m. – 9:30 a.m.
Oral Session, Room 22

Dental Materials: Adhesion – Bond Strength Testing and Mechanisms – Luting Procedures

Chairpersons: D. Brown and M. Eldiwan

- 0631** 8 a.m. Shear Bond Strength Between Dentin And Zirconia Or Lithium Disilicate. L. CHEN, Y. AHN, J. ZUFFA*, and B. SUH (*BISCO, Inc, Schaumburg, IL, USA*)

- 0632** 8:15 a.m. Microtensile and Shear Bond Strength of Zirconia Ceramics. L. CHEN, D. BROWN*, and B. SUH (*BISCO, Inc, Schaumburg, IL, USA*)

- 0633** 8:30 a.m. Tensile Bond Strength of Different Luting Agents at the Cement-Restoration-Interface. K. KUHN*, H. RUDOLPH, L. AHLKOG, V. VON KOENIGSMARCK, and R.G. LUTHARDT (*Clinic of Prosthetic Dentistry, Ulm University, Germany*)

S0634 8:45 a.m. Bond Strength Between Veneer Porcelains and CAD/CAM Ceramic to Titanium. N. HIFEDA*, R. GIORDANO II, and R. POBER (*Boston University, MA, USA*)

0635 9 a.m. μ TBS of New Resin-Modified Glass-Ionomer Cements: Effect of Dentin Pretreatment. Y. ALFAWAZ*, N.B. COOK, and M. BOTTINO (*King Saud University Dental School, Riyadh, Saudi Arabia*)

0636 9:15 a.m. Shear Bond Strength to Restorative Materials and Tooth Structure. J. BURGESS*, S. SHAH, D. CAKIR, P. BECK, and L. RAMP (*University of Alabama at Birmingham, USA*)

Seq#: 91 Friday, 23 March 2012, 8 a.m. – 9:30 a.m.
Oral Session, Room 25

Dental Materials: Ceramic-based Materials and Cements – Restorative Materials – Bond Strength, Fracture Resistance and Bioactivity

Chairpersons: T. Hill and J. Phark

0637 8 a.m. Effect of Wall Thickness and Support on Fired CAD/CAM Restorations. T. HILL*, J. CHURIK, and G. TYSOWSKY (*Ivoclar Vivadent, Inc, Amherst, NY, USA*)

0638 8:15 a.m. Flexural Strength of a New Resin Nanoceramic CAD/CAM Material. R. RUSIN*, V.A. RUSSELL, C.F. NORMAN, and S.M. BROWN (*3M ESPE Dental, St. Paul, MN, USA*)

0639 8:30 a.m. Fracture Toughness of a New Resin Nanoceramic CAD/CAM Material. C. NORMAN*, R.P. RUSIN, V.A. RUSSELL, R.A. BOEHMER, and S.M. BROWN (*3M ESPE, St. Paul, MN, USA*)

0640 8:45 a.m. Efficacy of silane after thermal-fatigue on bond-strengths degradation to zirconia. J.-H. PHARK*, N. SARTORI, L. DALMAGRO PERUCHI, A. SADAN, and S. DUARTE (*University of Southern California, Los Angeles, USA*)

0641 9 a.m. Shear-Bond Strength of Adhesive Resin Cements to Different Restoration Materials. C.A. WIEDIG*, R. HECHT, G. RAI, M. LUDSTECK, and C. THALACKER (*3M ESPE AG, Seefeld, Germany*)

0642 9:15 a.m. Evaluating the Role of Magnesium Substitution on Osteogenic Differentiation. S. SINGH*, A. ROY, B. LEE, and P. KUMTA (*University of Pittsburgh, PA, USA*)

Seq#: 92 Friday, 23 March 2012, 8 a.m. – 9:30 a.m.
Oral Session, Room 24

Dental Materials: Clinical Trials – Clinical Studies

Chairpersons: S. Bayne and F. Burke

0643 8 a.m. Three-year Clinical Performance of Low-shrinkage Resin Composite Restorations. F.J.T. BURKE* and R. CRISP (*University of Birmingham, United Kingdom*)

0644 8:15 a.m. Evaluation of Zirconia Crowns made from Conventional and Digital Impressions. D. FASBINDER*, G. NEIVA, J. DENNISON, and D. HEYS (*University of Michigan, Ann Arbor, USA*)

0645 8:30 a.m. Clinical Evaluation of Lithium Disilicate Chair-side CAD/CAM Crowns at 4-years. D. FASBINDER, J. DENNISON, D. HEYS, and G. NEIVA* (*University of Michigan, Ann Arbor, USA*)

0646 8:45 a.m. Compensation Method for Missing Wear Data in Long-term Clinical Trials. S. BAYNE*, A. WILDER, H.O. HEYMANN, J. STURDEVANT, and E.J. SWIFT, Jr. (*University of Michigan, Ann Arbor, USA*)

0647 9 a.m. A Clinical Study of Three In-office Dental Bleaching Systems. P.E. CAPEL CARDOSO*, A. MUENCH, and H. PINHEIRO (*Universidade de Sao Paulo, Brazil*)

0648 9:15 a.m. Clinical Outcome Of Different Adhesive Approaches In Indirect Pulp Capping. N. SCOTTI*, D. PASQUALINI, and E. BERUTTI (*University of Turin, Italy*)

Seq#: 93 Friday, 23 March 2012, 8 a.m. – 9:30 a.m.
Oral Session, Room 23

Dental Materials: Keynote Address and Polymer-based Materials: Chemistry and Composition

Chairpersons: C. Pfeifer and J. Stansbury

0649 8 a.m. Keynote Address: Intentionally Designed Heterogeneous Polymers: Control of Structure and Properties. J. STANSBURY* (*University of Colorado, Aurora, USA*)

0650 8:30 a.m. Conversion-dependent shrinkage in (meth)acrylates as a function of irradiance. C. PFEIFER*, S. LEWIS, and J. STANSBURY (*University of Colorado, Aurora, USA*)

0651 8:45 a.m. Leachability of ACP Composites: Effect of Extraction Conditions. C. DAVIS*, A.A. GIUSEPPE, and D. SKRTIC (*American Dental Association, Gaithersburg, MD, USA*)

S0652 9 a.m. Properties of Gelatin/Carbonate apatite composite compared to bovine bone. P. KHANNA*, K. LEWIS, and R. LEGEROS (*New York University, Mercerville, NJ, USA*)

0653 9:15 a.m. Development and Application of Water-dispersible Nanogels. J. STANSBURY*, H. YI, S. LEWIS, M. MAKHIJA, and E. DAILING (*University of Colorado, Aurora, USA*)

Seq#: 94 Friday, 23 March 2012, 8 a.m. – 9:30 a.m.
Oral Session, Room 20

Microbiology / Immunology – Infection

Chairpersons: G. Jin and R. Gregory

0654 8 a.m. Measuring Biofilm Penetration Effect of Mouthrinses Using Multiple In-vitro Analyses. D. RICCI-NITTEL*, B. SERBIK, and T. FOURRE (*Johnson & Johnson Consumer & Personal Products Worldwide, Morris Plains, NJ, USA*)

0655 8:15 a.m. Novel Fur and Iron-Regulated Small Regulatory RNAs of *Aggregatibacter actinomycetemcomitans*. E. HAASE*, J. AMARASINGHE, and F.A. SCANNAPIECO (*State University of New York – SUNY – Buffalo, USA*)

0656 8:30 a.m. *Rothia* Bacteria as Gluten-Degrading Natural Colonizers of the Oral Cavity. G.-X. WEI*, M. ZAMAKHCHARI, F. DEWHIRST, D. SCHUPPAN, F.G. OPPENHEIM, and E. HELMERHORST (*Boston University, MA, USA*)

0657 8:45 a.m. Bacteriological Pattern and Determinants of Wound Infection following Maxillofacial Surgery. P. UGBODAGA* (*Central Hospital, Benin City, Nigeria*)

0658 9 a.m. HPV Oncoproteins Modulate Human - defensin-3 Expression in Oral Epithelial Cells. E. NWEZE, B. CHOW, J. BIAN, J. DAYAN, A. WEINBERG, T. MCCORMICK, and G. JIN* (*Case Western Reserve University, Cleveland, OH, USA*)

Seq#: 95 Friday, 23 March 2012, 8 a.m. – 9:30 a.m.
Oral Session, Room 19

Microbiology / Immunology – Infection Control

Chairpersons: A. Alt-Holland and M. DeSilva

0659 8 a.m. A Novel Method to Examine Bacterial Contamination in Dental Clinics. A. ALT-HOLLAND*, R. THONDAPU, K. RAJAPAKSHA, C. MIN, T. ZHU, T. KAWAI, R. PERRY, and G. KUGEL (*Tufts University, Boston, MA, USA*)

0660 8:15 a.m. Antimicrobial Cocktail For Implant Coating And Regenerative Tissue Scaffolds. M. DESILVA*, W. ZHAO, S.T. SCHULTZ, and L. CHU (*Naval Medical Research Unit San Antonio, Fort Sam Houston, TX, USA*)

- 0661** 8:30 a.m. Effects of Tigecycline on Tooth Color. S. GUPTA*, G. HACK, and A.F. FOUAD (*University of Maryland Dental School, Baltimore, USA*)
- S0662** 8:45 a.m. Evaluation of Dental Unit Waterlines treated with Sterisil PureTube™. S. MOMENI*, D. SCHMIDTKE, and J.D. RUBY (*University of Alabama at Birmingham, USA*)
- S0663** 9 a.m. Antibacterial Property Expressed by a Novel Calcium Phosphate Glass. L. LIU*, S. PUSHALKAR, D. SAXENA, R. LEGEROS, and Y. ZHANG (*New York University, USA*)
- S0664** 9:15 a.m. Co-administration of Vancomycin and BMP-2 on Staphylococcus/Bone Cell Co-culture. A. NGUYEN*, S. KIM, J. WENKE, and Y. YANG (*University of Texas – Houston/Health Science Center, USA*)

Seq#: 96 Friday, 23 March 2012, 8 a.m. – 9:30 a.m.
Oral Session, Room 16

Mineralized Tissue – Keynote Address and Dentin Formation and Pathology

Chairpersons: Y. Yamakoshi and D. Napierala

- 0665** 8 a.m. Keynote Address: FAM20C (DMP4), a Novel Regulator of FGF23, Plays Critical Roles in Odontogenesis and Osteogenesis. C. QIN* (*Texas A&M Health Science Center, Baylor College of Dentistry, Dallas, USA*)
- 0666** 8:30 a.m. Critical Role of *Trps1* in Mineralization of 17HIA11 Predontoblastic Cells. D. NAPIERALA*, L. STEVENSON, C. MOBLEY, T. WINTERS, T. BERTIN, A. POLIARD, O. KELLERMANN, and B. LEE (*University of Alabama at Birmingham, USA*)
- 0667** 8:45 a.m. Identification of Human Dentin Sialophosphoprotein (DSPP)-Derived Proteins. Y. YAMAKOSHI*, J.C.-C. HU, F. YAMAKOSHI, M.E. KABIR, and J.P. SIMMER (*University of Michigan, Ann Arbor, USA*)
- 0668** 9 a.m. Ubiquitous Nuclear Localization of DMP1 in Various Cell Lines. A. SIYAM*, Y. LU, S. WANG, C. QIN, G. MUES, R. STEVENS, and R. D'SOUZA (*Kornberg School of Dentistry, Temple University, Philadelphia, PA, USA*)
- 0669** 9:15 a.m. Radiotherapy effects on enamel and dentin nano-mechanical properties. M.P. WALKER*, C. XU, R. REED, J. GORSKI, K. WILLIAMS, Y. LIU, and Y. WANG (*University of Missouri-Kansas City, USA*)

Seq#: 97 Friday, 23 March 2012, 8 a.m. – 9:30 a.m.
Oral Session, Room 12

Network for Practice-based Research – Practice Based Research Outcomes

Chairpersons: M. Botello and M. Rothen

- 0670** 8 a.m. Saliva Characteristics and Incidence of Dental Caries. J. CUNHA-CRUZ*, M. ROTHEN, F. MARCIAL, L. ZHOU, L. MANCL, J. SCOTT, J. BERG, and Northwest PRECEDENT (*University of Washington, Seattle, USA*)
- 0671** 8:15 a.m. Characteristics of Cracks in Teeth – Association with Symptoms. T. HILTON, J. FERRACANE*, L. MANCL, Y. COLEY, C. BALTUCK, E. LUBISICH, A. GILBERT, L. LOWDER, C. BARNES, J. PETERSON, and Northwest PRECEDENT (*Oregon Health & Science University, Portland, USA*)
- 0672** 8:30 a.m. Prevalence of Dentin Hypersensitivity and Associated Risk Factors in Adults. J. CUNHA-CRUZ, M. ROTHEN*, J. WATAHA, L. HEATON, J. SCOTT, R. RADMALL, J. BERG, and N. PRECEDENT (*University of Washington, Seattle, USA*)
- 0673** 8:45 a.m. Sources of Clinical Information among practitioners in the CONDOR PBRNs. M. BOTELLO*, C. DEMCKO, A. LINDBLAD, G.H. GILBERT, D. COLLIE, D. VENA, R. MCBRIDE, T. HILTON, M. LEHMAN, R. CRAIG, D.B. RINDAL, F. CURRO, V. THOMPSON, and The CONDOR Collaborative Group (*The EMMES Corporation, Rockville, MD, USA*)

- 0674** 9 a.m. Northwest PRECEDENT Survey: Rates of Dentists Providing Pediatric/Behavior Management Procedures. K. HUGGINS*, J. BERG, E. TRUELOVE, J. HUANG, M. BETTENDORF, J. BOSEMAN, P. HAGERTY, and J. JONES (*University of Washington, Seattle, USA*)
- 0675** 9:15 a.m. Electronic Dental Record Use in The Dental Practice-based Research Network. M. SONG, T. SCHLEYER*, D.B. RINDAL, J.L. FELLOWS, V.V. GORDAN, G.H. GILBERT, and DPBRN COLLABORATIVE GROUP, Dental Practice-Based Research Network (*University of Pittsburgh, PA, USA*)

Seq#: 98 Friday, 23 March 2012, 8 a.m. – 9:30 a.m.
Oral Session, Room 18

Prosthodontics Research – Digital Dentistry

Chairpersons: R. Luthardt and H. Rudolph

- 0676** 8 a.m. Reliability of Soft-tissue Measurement Applying a Three-dimensional Computer-aided Analysis. H. RUDOLPH*, M. HRUSA, T. MARTIN, B.A. JUST, and R.G. LUTHARDT (*Ulm University, Germany*)
- S0677** 8:15 a.m. Accuracy of milled models fabricated from optical impressions (iTero system). . O. BANDAY*, J. SPADA, and D. NATHANSON (*Boston University, MA, USA*)
- S0678** 8:30 a.m. Nondestructive three-dimensional analysis of conventional and CAD/CAM restorations. C. STEIN*, S. REICH, O. BOTSIS, R. LUTHARDT, and H. RUDOLPH (*University of Ulm, Germany*)
- S0679** 8:45 a.m. Validating FE Models For Dental Prostheses Using Digital Image Correlation. R. TIOSSI*, M. VASCO, L. LIN, H. CONRAD, O. BEZZON, A. FOK, and R. RIBEIRO (*University of Sao Paulo, Ribeirao Preto, Brazil*)
- 0680** 9 a.m. RaSDA: 3D-assessment of Tooth Movements Based on Master-casts. R. LUTHARDT*, R. DING, S. WOLFART, W. HANNAK, H. STARK, N. PASSIA, B. WÖSTMANN, T. MUNDT, G. HEYDECKE, F. JAHN, M. KERN, P. POSPIECH, L. BIRKNER, S. HARTMANN, J.-F. GÜTH, E. BUSCHE, J. HUPPERTZ, B. MARRÉ, A. WEBER, K. BOENING, M. WALTER, and H. RUDOLPH (*University Ulm, Germany*)
- 0681** 9:15 a.m. Angle of convergence of posterior crowns prepared by under-graduate students. M. ALHAZMI*, S. UCTASLI, M. ZAHARAN, K. NADA, H. ALKUMRU, and O. ELMOWAFY (*University of Toronto, Canada*)

Seq#: 99 Friday, 23 March 2012, 8 a.m. – 9:30 a.m.
Oral Session, Room 13

Pulp Biology & Regeneration Research – Dentinogenesis: Mechanisms and Therapies

Chairpersons: G. Huang and H. Zhang

- 0682** 8 a.m. MicroRNA-dependent Posttranscriptional Regulation in Autosomal Recessive Radicular Dentin Dysplasia. E. LAMANI*, J. DONG, A. GULLARD, O. MAMAEVA, and M. MACDOUGALL (*University of Alabama at Birmingham, USA*)
- S0683** 8:15 a.m. Altered Pulpal Mineralization Potential Associated with Radicular Dentin Dysplasia. A. GULLARD*, E. LAMANI, O. MAMAEVA, J. DONG, and M. MACDOUGALL (*University of Alabama at Birmingham, USA*)
- S0684** 8:30 a.m. Postnatal Root Dentin Formation: An Emerging Signaling Pathway. C.-H. LI*, Z. ZONG, A.S. VOISEY, Y. LIU, X. ZHOU, and J.Q. FENG (*Baylor College of Dentistry, Dallas, TX, USA*)
- S0685** 8:45 a.m. Amelogenin Promotes Dentinogenesis And Cementogenesis Of Dental/periodontal Stem/progenitor Cells. J. GU*, M. CHEN, T.-J. SHEU, J. ZHOU, S. WANG, Y. SHEN, C. LU, R. YANG, W. ZHAO, and J. MAO (*Columbia University, New York, NY, USA*)

S0686 9 a.m. Laser Directed Dentin Differentiation of Dental Stem Cells. P. ARANY*, T. HUNT, G. SIDHU, K. SHIN, E. HAHM, A. CHEN, B. PADWA, M. HAMBLIN, and D. MOONEY (*Harvard University, Cambridge, MA, USA*)
9:15 a.m. Discussion.

Seq#: 100 Friday, 23 March 2012, 9:45 a.m. – 10:30 a.m.
Plenary, Ballroom B-C

Distinguished Lecture Series/Plenary Sessions – Regenerative Medicine and Organ Replacement Therapy

0687 9:45 a.m. Regenerative Medicine and Organ Replacement Therapy. A. ATALA* (*Wake Forest University Institute for Regenerative Medicine, Winston-Salem, NC, USA*)

Seq#: 101 Friday, 23 March 2012, 10:45 a.m. – 12:15 p.m.
Hands-on Workshop, Room 13

Hands-on Workshop – Publishing Your Manuscript – a JDR Perspective

0688 10:45 a.m. Publishing your Manuscript – a JDR Perspective. W. GIANNOBILE* (*University of Michigan, Ann Arbor, USA*)

Seq#: 102 Friday, 23 March 2012, 10:45 a.m. – 12:15 p.m.
Symposium, Room 9

Symposium – 30 Years and Counting: The Past, Present and Future of the NSRG

Chairpersons: R. Spears and R. D'Souza

0689 10:45 a.m. NSRG President 1983. P. MARUCHA* (*University of Illinois at Chicago, USA*)

10:55 a.m. NSRG President 1988. L. WINSTON* (*P&G Professional Oral Health, Crest Oral-B, Maineville, OH, USA*)

11:05 a.m. NSRG Councilor 1989. F. PANAGAKOS* (*Colgate-Palmolive Company, Piscataway, NJ, USA*)

11:15 a.m. NSRG President 2007. E. EALBA* (*University of California – San Francisco, USA*)

11:25 a.m. NSRG President 2008. J. ROGÈR* (*University of Rochester School of Medicine and Dentistry, NY, USA*)

Seq#: 103 Friday, 23 March 2012, 10:45 a.m. – 12:15 p.m.
Symposium, Room 10

Symposium – Guided Stem Cell Differentiation for Dental Tissue Regeneration

Theme: Stem Cell Biology in Craniofacial Tissues

0690 10:45 a.m. Protein Based De Novo Engineering of Dentin. A. GEORGE* (*University of Illinois at Chicago, USA*)

11:10 a.m. Transgenic Animals Expressing GFP as Models for Studying Odontoblast Differentiation *In Vivo* and *In Vitro*. M. MINA* (*University of Connecticut, West Hartford, USA*)

11:35 a.m. Mesenchymal Stem Cells in Orofacial Therapies. S. SHI* (*University of Southern California, Los Angeles, USA*)

Noon Discussion.

Seq#: 104 Friday, 23 March 2012, 10:45 a.m. – 12:15 p.m.
Oral Session, Room 20

Cariology Research – Microbiological Studies / Biofilm – Caries Microbiology

Chairpersons: L. Zhan and M. Nascimento

0691 10:45 a.m. Arginine metabolism may confer caries resistance in children. M. NASCIMENTO*, Y. LIU, R. KALRA, S. PEREZ, A. ADEWUMI, X. XU, and R. BURNE (*University of Florida, Gainesville, USA*)

0692 11 a.m. A Tooth-binding PEG-Based Molecular Brush for Dental Plaque Prevention. F. CHEN*, K.W. BAYLES, and D. WANG (*University of Nebraska Medical Center, Omaha, USA*)

0693 11:15 a.m. Study of *Streptococcus mutans* and lactobacilli on dentin caries formation. L. ZHAN*, G. MARSHALL, S. MARSHALL, J. FEATHERSTONE, G. NONOMURA, C. LE, M. RAPOZO-HILO, and W. LI (*University of California – San Francisco, USA*)

0694 11:30 a.m. *In vitro* Biofilm-Associated Enamel Demineralization Under Distinct Sugar Exposure. R. ARTHUR*, R.A. WAEISS, A. HARA, F. LIPPERT, and D. ZERO (*Indiana University School of Dentistry, Indianapolis, USA*)

0695 11:45 a.m. Identification of *Streptococcus sobrinus* Lytic Bacteriophages Isolated From Caspian Sea. K. BEHESHTI MAAL, M. BOUZARI*, and F. ARBABZADEH-ZAVAREH (*University of Isfahan, Iran*)

S0696 Noon Microbial Community Succession on Developing Lesions on Human Enamel. L. TORLAKOVIC, V. KLEPAC-CERAJ, S. COTTON*, I. OLSEN, B. ØGAARD, and B. PASTER (*Forsyth Institute, Cambridge, MA, USA*)

Seq#: 105 Friday, 23 March 2012, 10:45 a.m. – 12:15 p.m.
Oral Session, Room 15

Craniofacial Biology – Orthodontic Appliance and Treatment Effects

Chairpersons: M. Sood and J. Nickel

0697 10:45 a.m. Human Tooth Movement by Continuous High and Low Stresses. W. DEFOREST*, J. NICKEL, Y. LIU, H. LIU, and L. IWASAKI (*University of Missouri – Kansas City, USA*)

0698 11 a.m. Pain quality and intensity during tooth translation by two stresses. J. HENTSCHER-JOHNSON, K. WILLIAMS, L. YE, M.P. WALKER, J. NICKEL, and L. IWASAKI* (*University of Missouri – Kansas City, USA*)

0699 11:15 a.m. Vibration Effects on Stick-Slip at the Bracket-Wire Interface. J. NICKEL*, J. OLSON, M.P. WALKER, K. WILLIAMS, and L. IWASAKI (*University of Missouri – Kansas City, USA*)

0700 11:30 a.m. Randomized Clinical Trial (RCT) Comparing Intercept and Comprehensive Medicaid Orthodontics. G. KING*, G. GREENLEE, G. HUANG, and C. SPIEKERMAN (*University of Washington, Seattle, USA*)

S0701 11:45 a.m. An FEM Analysis Comparing the MiRPE and Conventional RPE. M. MACGINNIS* and W. MOON (*University of California – Los Angeles, USA*)

0702 Noon The Effectiveness of SureSmile Technology to Achieve Predicted Treatment Outcomes. C. VAUBEL, T. GRUENHEID*, and B. LARSON (*University of Minnesota, Minneapolis, USA*)

Seq#: 106 Friday, 23 March 2012, 10:45 a.m. – 12:15 p.m.
Oral Session, Room 25

Dental Materials: Instruments and Equipment – Update on Light-curing Units and CAD/CAM Technology

Chairpersons: S. Lee and F. Rueggeberg

0703 10:45 a.m. Beam Profiles of Four Curing Lights Through Resin Composite. C. FELIX* and R. PRICE (*Dalhousie University, Halifax, Canada*)

S0704 11 a.m. Effect of Curing Light and Restoration Location on Energy Delivery. S. BHATT*, C. AYER, R. PRICE, R. PERRY, and C. FELIX (*Tufts University, Boston, MA, USA*)

0705 11:15 a.m. Accuracy of Digital Model Articulation for Chairside CAD/CAM Restorations. D. POTICNY* and D. FASBINDER (*University of Michigan, Ann Arbor, USA*)

S0706 11:30 a.m. Efficiency of Digital vs. Conventional Implant Impression. S. LEE* and G.O. GALLUCCI (*Harvard University, Boston, MA, USA*)

11:45 a.m. Discussion.

Seq#: 107 Friday, 23 March 2012, 10:45 a.m. – 12:15 p.m.
Oral Session, Room 23

Dental Materials: Adhesion – Bond Strength Testing and Mechanisms – Keynote Address and Bonding to Ceramic and Zirconia

Chairpersons: M. Balkenhol and J. Piascik

0707 10:45 a.m. Keynote Address: Essentials of Adhesion to Dental Ceramics. M. ÖZCAN* (*University Zurich, Zürich, Switzerland*)

0708 11:15 a.m. Bonding to Zirconia Ceramic: Effect of PlasmaJet Treatment and 4-META. M. BALKENHOL*, F. NOTHDURFT, M. HANNIG, A. SCHINDLER, A. KNAUBER, and S. RUPF (*Saarland University, Homburg, Germany*)

0709 11:30 a.m. Surface Fluorination of Zirconia: A Comparison to Commercial Primers. J. PIASCIK*, S. WOLTER, E.J. SWIFT, Jr., and B. STONER (*RTI International, Research Triangle Park, NC, USA*)

0710 11:45 a.m. Bond of a New Self-etch Adhesive to Alumina and Zirconia. M.B. BLATZ, C. ZBAEREN*, and F. MANTE (*University of Pennsylvania, Philadelphia, USA*)

S0711 Noon Surface chemistry and bonds of Y-TZP after Plasma treatment. G. VALVERDE*, P. COELHO, R. CARVALHO, M. JANAL, V. THOMPSON, F. LORENZONI, J. DELBEN, and N. SILVA (*New York University, USA*)

Seq#: 108 Friday, 23 March 2012, 10:45 a.m. – 12:15 p.m.
Oral Session, Room 22

Dental Materials: Adhesion – Leakage/Margin Assessments – Adhesion – Leakage/Margin Assessments II

Chairpersons: M. Bottino and S. Duarte

S0712 10:45 a.m. Microleakage Evaluation of All-Ceramic Crowns Bonded Above/Below the CEJ. M. TSAO*, S. JOHN, E. DOHERTY, M. FINKELMAN, M. HARSONO, and G. KUGEL (*Tufts University, Boston, MA, USA*)

S0713 11 a.m. Effect of Etchant on Sealant Retention: An In Vitro Study. N. DELJAVAN*, P.M. CAMPBELL, C. CHAU, and P.H. BUSCHANG (*Baylor College of Dentistry, Dallas, TX, USA*)

S0714 11:15 a.m. Margin integrity of ClassII Preparations Restored with the SonicFill System. C. MUNOZ-VIVEROS, A. SKIERCZYNSKI*, A.R. YAZICI, I. AGARWAL, and M. CAMPILLO-FUNOLLET (*State University of New York – Buffalo, USA*)

0715 11:30 a.m. Three-Dimensional Characterization of Nanoleakage Using Serial Ion-Ablation Scanning Electron Microscopy. S. DUARTE*, N. AVISHAI, A. AVISHAI, A. HEUER, A. SADAN, and J.-H. PHARK (*University of Southern California, Los Angeles, USA*)

0716 11:45 a.m. Aggressiveness of Self-etch Adhesives Affects Photopolymerization Efficacy and Interfacial Chemistry. Y. WANG* and Y. ZHANG (*University of Missouri -Kansas City School of Dentistry, USA*)

S0717 Noon Gingival Microleakage of Class V Composite Restorations with Fiber Inserts. W. AHMED*, W. EL-BADRAWY, A. PRAKKI, G. KULKARNI, and O. EL-MOWAFY (*University of Toronto, Canada*)

Seq#: 109 Friday, 23 March 2012, 10:45 a.m. – 12:15 p.m.
Oral Session, Room 11

Education Research – Current Issues in Dental Education

Chairpersons: L. Dempster and M. Fogelman

S0718 10:45 a.m. Community-based education and attitudes and behavior related to underserved patients. A. ROHRA, Jr.*, P. DE OLIVEIRA, W. PISKOROWSKI, and M.R. INGLEHART (*University of Michigan, Ann Arbor, USA*)

0719 11 a.m. 3D analysis of composite restoration at practical training using SS-OCT. Y. SHIMADA*, A. NAZARI, A. SADR, Sr., M. OTSUKI, J. TAGAMI, and Y. SUMI (*Tokyo Medical & Dental University, Japan*)

0720 11:15 a.m. Effect of Instruction on Light Curing Effectiveness. S. SETH*, C. LEE, and R. PRICE (*Dalhousie University, Halifax, Canada*)

S0721 11:30 a.m. Improving the EBD Skills of Dental Students through Curricular Innovation. M. HIGGINBOTHAM*, A. MCCANN, E. SCHNEIDERMAN, R. HINTON, and R. SPEARS (*Baylor College of Dentistry, Dallas, TX, USA*)

0722 11:45 a.m. Patients' perceptions of dentists' interpersonal skills. L. DEMPSTER* (*University of Toronto -, Canada*)

S0723 Noon Assessment of Students' Performance on Caries Detection. N. SADEGHI*, G. ECKERT, and A. FERREIRA ZANDONA (*Indiana University School of Dentistry, Indianapolis, USA*)

Seq#: 110 Friday, 23 March 2012, 10:45 a.m. – 12:15 p.m.
Oral Session, Room 12

Implantology Research – Implant Surface Modifications / Peri-implant Pro-inflammatory Mediators

Chairpersons: A. Almaguer-Flores and A. Polson

0724 10:45 a.m. Comparison of surface property in four commercial implants-continuation. R. LIU*, T. LEI, X. YAO, V. DUSEVICH, Y. WANG, J. WOOLSEY, M. WALKER, and L. YE (*University of Missouri -Kansas City, USA*)

S0725 11 a.m. Chair-side Argon-Based Non-Thermal Plasma Treatment Enhances osseointegration. H. TEIXEIRA*, N. SILVA, C. MARIN, A. FREITAS, Jr., L. WITEK, and P. COELHO (*New York University, USA*)

0726 11:15 a.m. Blocking BMP Inhibitors Enhances HMSCs Differentiation on Microstructured Titanium Surfaces. C. CUNDIFF, R. OLIVARES-NAVARRETE, S. HYZY, C. APPERT, B.D. BOYAN*, and Z. SCHWARTZ (*Georgia Institute of Technology, Atlanta, USA*)

S0727 11:30 a.m. Bioactive and Anti-bacterial Coatings on Ti-alloy Surfaces. A. KULKARNI*, S. PUSHALKAR, D. SAXENA, and R. LEGEROS (*New York University, USA*)

- 0728** 11:45 a.m. In-Situ Evaluation of Pro-Inflammatory Mediators Around Dental Implant Abutments. C. BARWACZ*, K. BROGDEN, C. STANFORD, L. THOMANN, E. RECKER, D. DAWSON, C. KUMMET, and D. BLANCHETTE (*University of Iowa, Iowa City, USA*)
- 0729** Noon Implant Surface Modification with Silver Nanoparticles and Amorphous-Carbon Films. A. ALMAGUER-FLORES*, R. OLIVARES-NAVARRETE, G. RAMÍREZ, and S. RODIL (*Universidad Nacional Autónoma de México, Mexico City, Mexico*)

Seq#: 111 Friday, 23 March 2012, 10:45 a.m. – 12:15 p.m.
Oral Session, Room 18

Microbiology / Immunology – Immunity

Chairpersons: J. Lau and J. Ebersole

- 0730** 10:45 a.m. Oral Epithelial Cell Responses to Multispecies Microbial Biofilms. R. PEYYALA*, S. KIRAKODU, K. NOVAK, and J. EBERSOLE (*University of Kentucky, Lexington, USA*)
- S0731** 11 a.m. Effect of Phenol Antioxidants on Cytokine Secretion in Oral Epithelium. J. LAU* and M. WHEATER (*University of Detroit Mercy, MI, USA*)
- 0732** 11:15 a.m. Age-related changes in the Gingival Expression of Inflammasome genes. O. GONZALEZ*, M. NOVAK, S. KIRAKODU, A. STROMBERG, L. ORRACA, J. GONZALEZ-MARTINEZ, and J. EBERSOLE (*University of Kentucky, Lexington, USA*)
- 0733** 11:30 a.m. Beta-defensin 3 and Cathelicidin-mediated Chemokine Induction in Monocytes and Macrophages. V. PETROV* and S. SIEG (*Case Western Reserve University, Cleveland, OH, USA*)
- 0734** 11:45 a.m. TGF- β /SOCS-3 signaling and Foxp3⁺T-reg modulate DC/T-cell interactions during DDOC-associated osteoclastogenesis. Y.C. LIU and Y.-T. TENG* (*Kaohsiung Medical University, Kaohsiung City, Taiwan*)
- 0735** Noon Aging Effects on Gingival Antigen Presentation Pathways in Health/Disease. O. GONZALEZ, M. NOVAK, S. KIRAKODU, A. STROMBERG, L. ORRACA, J. GONZALEZ-MARTINEZ, and J. EBERSOLE* (*University of Kentucky, Lexington, USA*)

Seq#: 112 Friday, 23 March 2012, 10:45 a.m. – 12:15 p.m.
Oral Session, Room 16

Mineralized Tissue – Current Topics in Bone Research

Chairpersons: E. Pinnow and R. Olivares-Navarrete

- 0736** 10:45 a.m. Potential Role for Biglycan in Bone Formation During Fracture Healing. E. PINNOW*, A. BERENDSEN, T.M. KILTS, and M.F. YOUNG (*NIDCR, National Institutes of Health, Bethesda, MD, USA*)
- 0737** 11 a.m. Orthosilicic Acid Enhances Collagen Formation Through OSX Transcription. J. CHENG, L.M. DOMINIA, G. MARSHALL, P. LOOMER, and V. VARANASI* (*Baylor College of Dentistry, Texas A & M Health Science Center, Dallas, USA*)
- S0738** 11:15 a.m. Resolvin E1 Regulation of Bone Remodeling After Injury. D. FAIBISH*, R. GYURKO, and T. VAN DYKE (*Boston University, MA, USA*)
- S0739** 11:30 a.m. Microstructure and Osteogenic Gene Profile Variation Between Alveolar/Basal Bone. I. ZAKHARY*, K. WENGER, M. SHARAWY, F. ALOTAIBI, and R. MESSER (*Georgia Health Sciences University, Augusta, USA*)
- 0740** 11:45 a.m. PLAA is Required for 1,25(OH)₂D₃-Induced Rapid-Activation of PKC in Osteoblasts. M. DOROUDI*, B.D. BOYAN, and Z. SCHWARTZ (*Georgia Institute of Technology, Atlanta, USA*)

- 0741** Noon Periodontal Defect in Hypophosphatemic Rickets Mice Model. R. LIU, T. LEI, M. DALLAS, A. STERN, and L. YE* (*University of Missouri -Kansas City, USA*)

Seq#: 113 Friday, 23 March 2012, 10:45 a.m. – 12:15 p.m.
Oral Session, Room 21

Oral Health Research – Dentifrices

Chairpersons: J. Buisson and M. Klukowska

- 0742** 10:45 a.m. 2-Month Gingivitis Treatment Comparison of Stannous Fluoride and Triclosan/Copolymer Dentifrices. M. BARKER*, T. HE, A.R. BIESBROCK, M.C. MINER, C.R. GOYAL, and J. QAQISH (*Procter & Gamble Company, Mason, OH, USA*)
- 0743** 11 a.m. Comparative Antiplaque Efficacy of SnF₂/Hexametaphosphate and Triclosan Dentifrices. M. KLUKOWSKA, M. BARKER, D. WHITE*, and A. BAIG (*Procter & Gamble Company, Mason, OH, USA*)
- 0744** 11:15 a.m. Dentinal Tubule Occlusion with Stannous Fluoride and KNO₃/Gantrez Dentifrices. M. ZSISKA*, M. GIBBS, J. MOORE, J.C. BUISSON, and D. WHITE (*Procter & Gamble Company, Mason, OH, USA*)
- 0745** 11:30 a.m. Smear Layer Formation and Environmental Stability of Commercial Dentifrices. M. ZSISKA, M. GIBBS, J. MOORE, D. WHITE, and G. TZEHAHAI* (*Procter & Gamble Company, Mason, OH, USA*)
- 0746** 11:45 a.m. Superior Anti-gingivitis benefits of Stannous fluoride among triclosan dentifrice users. T. HE*, M. BARKER, A. BIESBROCK, P. ARMINI, C. GOYAL, and J. QAQISH (*The Procter & Gamble Company, Mason, OH, USA*)
- 0747** Noon Anti-Plaque Benefits of Two Therapeutic Dentifrices Using DPIA. T. HE, A. BIESBROCK*, M. BARKER, H. EYNON, J. MILLEMAN, K. MILLEMAN, M.S. PUTT, and A. WINTERGERST (*The Procter & Gamble Company, Mason, OH, USA*)

Seq#: 114 Friday, 23 March 2012, 10:45 a.m. – 12:15 p.m.
Oral Session, Room 19

Periodontal Research – Diagnosis / Epidemiology – Markers of periodontal disease progression / Metabolic Disease

Chairpersons: M. Jeffcoat and J. Payne

- 0748** 10:45 a.m. Comprehensive Microbiological Characterization in Children with Localized Aggressive Periodontitis. H. HUANG, L. TONG, W. HOU, I. AUKHIL, C. WALKER, B. PASTER, and L. SHADDOX* (*University of Florida, Gainesville, USA*)
- 0749** 11 a.m. Association Between Longitudinal Changes in Clinical and Radiographic Periodontitis Measures. J. PAYNE*, P. NUMMIKOSKI, D. THOMPSON, L. GOLUB, and J. STONER (*University of Nebraska Medical Center, Lincoln, USA*)
- 0750** 11:15 a.m. Association Between Serum Inflammatory Biomarkers and Progression of Periodontitis. D. THOMPSON*, H.-M. LEE, J. STONER, L. GOLUB, P. NUMMIKOSKI, and J. PAYNE (*University of Oklahoma, Oklahoma City, USA*)
- 0751** 11:30 a.m. Association Between Adiposity Measures and Periodontal Disease Among Hispanics. C. PEREZ*, H. VENEGAS, and K. JOSHIPURA (*University of Puerto Rico-MSU, Graduate School of Public Health, San Juan, PR*)
- S0752** 11:45 a.m. 16S rRNA metagenomics-based survey of oral biofilms in obese children. A. KHAN*, T. HUANG, S. YOOSEPH, M. LAMBERT, B. NICOLAU, and S. TRAN (*McGill University, Montreal, Canada*)
- 0753** Noon Periodontal Therapy Reduces Hospitalizations and Medical Care Costs in Diabetics. M. JEFFCOAT*, J. BLUM, and E.G. MERKEL (*University of Pennsylvania, Philadelphia, USA*)

Seq#: 115 Friday, 23 March 2012, 10:45 a.m. – 12:15 p.m.
Oral Session, Ballroom D

Theme-based Sessions – Gene-environment Interactions and Epigenetics in Oral Diseases

Chairpersons: S. Bhatt and S. Liu

S0754 10:45 a.m. Fitness Screen of *C.albicans* Genome-Wide Mutant Collection with Antimicrobial Peptides. S. BHATT*, M. LIS, C. NISLOW, and L. BOBEK (*State University of New York – Buffalo, USA*)

0755 11 a.m. RNA-binding protein CUGBP1 Regulates Apoptosis-related mRNAs In OSCC. S. TALWAR*, S. SUNDARAMURTHY, D. KUPPUSWAMY, S. BALASUBRAMANIAN, B.M. GILLESPIE, and V. PALANISAMY (*Medical University of South Carolina, Charleston, USA*)

S0756 11:15 a.m. Osterix is Obligatory for Odontoblast-Ameloblast Maturation but Not Tooth-Morphogenesis. M. ADHAMI*, J.-M. BAE, H. RASHID, H. CHEN, D. SUMMERFORD, D. NAPIERALA, K. SINHA, S. GUTIERREZ, B. DE CROMBRUGGHE, and A. JAVED (*University of Alabama, Birmingham, USA*)

S0757 11:30 a.m. miR-98 Regulates GH Pathway during Stress-Impaired Wound Healing. S. TYMEN*, Z.J. FANG, Y. ZHAO, S. JAHEDI, and P. MARUCHA (*University of Illinois – Chicago, USA*)

0758 11:45 a.m. Mechanical Stress Modulates Toll-like Receptors' Expression in Human PDL Cells. Y. YARMOLYUK* and D. LIU (*Marquette University, Milwaukee, WI, USA*)
Noon Discussion.

Seq#: 116 Friday, 23 March 2012, 1 p.m. – 5:30 p.m.
Hands-on Workshop, Room 13

Hands-on Workshop – NIDCR Essentials in Grant Writing

0759 1 p.m. NIDCR Essentials in Grant Writing.

Seq#: 117 Friday, 23 March 2012, 2 p.m. – 3:15 p.m.
Poster Discussion Session, Ballroom D

Cariology Research – Detection, Risk Assessment and Others – Cariogenicity, Caries Detection, and Risk Assessment (PDS)

Chairpersons: M. Levine and Y. Masood

2 p.m. Poster Viewing Period.

0760 2:20 p.m. Initial exon sequencing of putatively acid-neutralizing basic proline rich proteins. M. LEVINE* and P. GAFFNEY (*University of Oklahoma, Oklahoma City, USA*)

S0761 2:27 p.m. Diagnostic Outcomes of Two Visual-Tactile Caries Scoring Systems. S. TIKHONOVA*, J. FEINE, N. PUSTAVOITAVA, and P. ALLISON (*Faculty of Dentistry, McGill University, Montreal, QC, Canada*)

0762 2:34 p.m. Influence of Tooth-surface Hydration on Optical Coherence Tomography Imaging. Y. SHIMAMURA*, H. KUROKAWA, M. IINO, R. MURAYAMA, M. TAKIMOTO, S. ANDO, M. MIYAZAKI, Y. HOSOYA, and J. PLATT (*Nihon University, Tokyo, Japan*)

S0763 2:41 p.m. Evaluation of Caries Risk Assessment: Analysis of Focus Groups Interview. O. ISYUTINA* and G. MAUPOME (*Indiana University, Carmel, USA*)

0764 2:48 p.m. Oral Health Situational Analysis in Preschoolers at Zacatecas Kindergarten. M. ACEVES MEDINA, C.Y. DÍAZ ROSAS*, L.A. AGUILERA GALAVIZ, P. AGUILAR DOMÍNGUEZ, C.J. SANTIBAÑEZ VALLES, and M.E. HERNÁNDEZ MONTOYA (*Universidad Autonoma de Zacatecas, Zacatecas, Zacatecas, Mexico*)

Seq#: 118 Friday, 23 March 2012, 2 p.m. – 3:15 p.m.
Poster Discussion Session, Room 25

Implantology Research – Peri-implant Bone Healing and Remodeling / Effect of BMP-2 and Surface Microtopography (PDS)

Chairpersons: S. Hyzy and H. Huang

2 p.m. Poster Viewing Period.

S0765 2:20 p.m. Alveolar Bone Remodeling around Immediate Implants according to extraction socket classification. M. BINSHABAIB, M. AL-ASKAR*, A. AL-RASHEED, N. BABAY, F. JAVED, H.L. WANG, and K. AL-HEZAIMI (*Eng A.B Growth factor and Bone regeneration research chair, King Saud University, Riyadh, Saudi Arabia, Saudi Arabia*)

S0766 2:27 p.m. Effect of a Modified Stepped Osteotomy on Implant Primary Stability. A. BOUSTANY*, C. BOUSTANY, H. REED, and G. HOBBS (*West Virginia University, Morgantown, USA*)

S0767 2:34 p.m. Peri-implant Clinical Parameters During Osseointegration Phase: Site-specific Differences. C. LEE*, T. EUBANK, H.-H. CHIEN, A. MARIOTTI, and B. LEBLEBICIOGLU (*Ohio State University, Columbus, USA*)

0768 2:41 p.m. Niobium Oxide Coating Enhances Integration in Titanium Implants. T. CHU*, J. AU-YEUNG, S. BLANCHARD, A. MACKEY, and R. KARLINSEY (*Indiana University, Indianapolis, USA*)

0769 2:48 p.m. Osteoblastic Differentiation of HMSCs on 3D-Scaffolds is Reduced without Microtopography. R. OLIVARES-NAVARRETE*, S. HYZY, D. HAITHCOCK, C. APPERT, B.D. BOYAN, and Z. SCHWARTZ (*Georgia Institute of Technology, Atlanta, USA*)

S0770 2:55 p.m. Bone Mediators in the Implant Sulcus Fluid Around Implant Abutments. E. RECKER*, C. BARWACZ, L. THOMANN, D. BLANCHETTE, C. KUMMET, D. DAWSON, K. BROGDEN, and C. STANFORD (*University of Iowa, Iowa City, USA*)

0771 3:02 p.m. BMP2 Reverses Anti-inflammatory Environment Created by SLActive In Vitro. S. HYZY*, R. OLIVARES-NAVARRETE, C. TAN, B.D. BOYAN, and Z. SCHWARTZ (*Georgia Institute of Technology, Atlanta, GA, USA*)

Seq#: 119 Friday, 23 March 2012, 2 p.m. – 3:15 p.m.
Poster Session, East Hall

Pulp Biology & Regeneration Research – Pulp Biology: Mechanisms and Therapies

0772 Hydrogel Drug Delivery Vehicle Cytotoxicity for Pulp Capping *in vitro*. T. KOMABAYASHI*, A. WADAJKAR, C. AHN, Q. ZHU, L. OPPERMAN, L. BELLINGER, J. YANG, and K. NGUYEN (*Texas A&M Health Science Center Baylor College of Dentistry, Dallas, USA*)

S0773 Endodontic Intelligent Release System for Apexification using Calcium Hydroxide Microspheres. N. KARIM*, A. STROM, B. OSBORN, A. ARORA, T. KOMABAYASHI, and X. LIU (*Baylor College of Dentistry, Dallas, TX, USA*)

0774 Healing of Periradicular Lesions in Patients under Bisphosphonate Therapy. J.Y. BAEK*, S.W. CHANG, H.M. YOO, D.S. PARK, and T.S. OH (*Samsung Medical Center, Sungkyunkwan University, Seoul, South Korea*)

S0775 Electric Pulp Test Results of Adult Maxillary Teeth: Demographic Comparison. E. KAZES*, B. MAGNUSON, M. SINGH, S. SUNDARALINGAM, M. FINKELMAN, and A. PAPAS (*Tufts University, Boston, MA, USA*)

- 0776** Expressions of MMPs in dental pulp cells from deciduous teeth. S. KAWAI*, K. HARADA, Y. OKAI, S. NAGATA, M. KATO, and K. OHURA (*Osaka Dental University, Japan*)
- 0777** Electric Pulp Test Scores Depending on Tooth and Restoration Type. E. KAZES, B. MAGNUSON*, M. SINGH, S. SUNDARALINGAM, A. PAPAS, and M. FINKELMAN (*Tufts University, Boston, MA, USA*)
- S0778** EGFR and Polycystin-2 in Renal and Dental Epithelial Ciliary Signaling. S. JERMAN*, H.H. WARD, E. ROMERO, M. MACDOUGALL, and A. WANDINGER-NESS (*The University of New Mexico Health Sciences Center, Albuquerque, USA*)
- S0779** Low-level Laser Irradiation on Col-I and VEGF Expression In Vitro. F. BASSO*, A.P. TURRIONI, J. HEBLING, and C. COSTA (*UNESP-Univ Estadual Paulista, Araraquara School of Dentistry, Brazil*)

Seq#: 120 Friday, 23 March 2012, 2 p.m. – 3:15 p.m.
Poster Session, East Hall

Dental Materials: Adhesion – Adhesives, Bond Strength, and Durability

- 0780** Bond Strength of Three-Step Etch-and-Rinse Adhesives with Modified Primer Application. H. ZALD*, K. VANDEWALLE, C. BAILEY, and J. CASEY (*USAF, Lackland AFB, TX, USA*)
- 0781** Effect of Pulpotomy Agents on MTBS of Pulpal Primary Dentin. K. BEKES*, T. GRABNER, H.-G. SCHALLER, and C. GERNHARDT (*Martin-Luther-University Halle-Wittenberg, Germany*)
- S0782** Degradation of Resin-caries-affected-dentin Bonds Treated with Water- or Ethanol-containing Chlorhexidine. H. RICCI*, D. SCHEFFEL, E. AZEVEDO, C.A. DE SOUZA COSTA, and J. HEBLING (*UNESP-Univ Estadual Paulista, Araraquara School of Dentistry, São Carlos, Brazil*)
- S0783** Effect of Chlorhexidine in Dentin Bond using Total-Etch and Self-Etch. E. LEE*, J. LEE, M. HARSONO, W. TAO, and G. KUGEL (*Tufts University, Boston, MA, USA*)
- S0784** Dentin Shear Bond Strength using 5th and 6th Generation Adhesives. M. ELDIWANY*, J. ONTIVEROS, and M. ELDIWANY (*University of Texas – Houston/Health Science Center, USA*)
- 0785** Bond Strength to Enamel Using 5th and 6th Generation Adhesives. M. ELDIWANY*, J. ONTIVEROS, S. HUQUE, and M. ELDIWANY (*University of Texas at Houston, USA*)
- S0786** Immediate Bond Strengths to Gluma Power Gel-treated Dentin. R. KAUR*, E.J. SWIFT, Jr., H.O. HEYMANN, A.V. RITTER, C. PHILLIPS, and R. WALTER (*University of North Carolina, Chapel Hill, USA*)
- 0787** Influence of Inhibitor Type on Shear Bond Strength to Dentin. K. ESQUIBEL*, J. RAMIREZ, A. SOTIROS, S. REED, D. LOWRY, K. AKAL, M. KUMOR, L. SCHOENFELD, S. REMY, C. BRACHO-TROCONIS, and M. TRUJILLO-LEMON (*Septodont, Colorado Research Center, Louisville, USA*)
- 0788** Dentin Bonding With and Without Micro-abrasion for Immediate Dentin Sealing. M. MEHARRY*, P. WOODS, and A. LEWIS (*Loma Linda University, CA, USA*)
- S0789** Effects of Ethanol-wet Dentin Bonding to Total-etch and All-in-One Adhesives. E. LEE, C. AHN*, M. HARSONO, W. TAO, and G. KUGEL (*Tufts University, Boston, MA, USA*)

- 0790** Total Etch Performance of One Bottle Self Etch Adhesives. C. THALACKER*, H. LOLL, C.A. WIEDIG, and D.D. KRUEGER (*3M ESPE AG, Seefeld, Germany*)
- S0791** Effect of Chlorhexidine on Dentin Bonding Strength. J. LEE*, E. LEE, M. HARSONO, and G. KUGEL (*Tufts University, Boston, MA, USA*)
- 0792** Enamel/Dentin Bonding Effectiveness of Self-etching Borate-initiated Self-cure 1-step Adhesive. S. ARMSTRONG*, K. HIRATA, and F. QIAN (*University of Iowa, Iowa City, USA*)
- S0793** Evaluation of Microtensile Bond Strength of a One-Step Self-Etch Adhesive. A. ALZAIN*, G. ECKERT, and J. PLATT (*Indiana University Purdue University Indianapolis, USA*)
- 0794** Bonding Performance of a New Adhesive "CLEARFIL TRI-S BOND PLUS". A. HINAMOTO*, Y. NOJIRI, M. TAKEI, N. NISHIGAKI, and K. NAKATSUKA (*Kuraray Medical Inc, Okayama, Japan*)
- S0795** Adhesion to Dentin Promoted by Contemporary Bonding Agents. C. ANDRÉ*, A. CARVALHO, G. AMBROSANO, and M. GIANNINI (*State University of Campinas, Piracicaba, SP, Brazil*)
- S0796** Extent of polymerization of experimental adhesive blends containing anhydrous QAMs. L. FONTANIVE*, L. BRESCHI, K. AGEE, A. TEZVERGIL-MUTLUAY, R. DI LENARDA, F. RUEGGERBERG, F.R. TAY, D. PASHLEY, and M. CADENARO (*University of Trieste, Italy*)
- S0797** Shear Bond Strength of Selective-etch Adhesives on Cut/Uncut Enamel. L. FOX*, M. HARSONO, J. TOWERS, R. PERRY, and G. KUGEL (*Tufts University, Boston, MA, USA*)
- S0798** Bond Strength Evaluation Using Green Tea on Bleached Enamel. S. BERGER*, R. CARREIRA, S. PAVAN, R. GUIRALDO, M. GIANNINI, and A.K. BEDRAN-RUSSO (*University of North Parana, Londrina – PR, Brazil*)
- S0799** Microtensile Bonding Strength of Antibacterial and Fluoride-Releasing Sealants to Enamel. K. EVANS*, Y. WANG, J.-F. ZHANG, J. TOWNSEND, J. HAGAN, and X. XU (*Louisiana State University, New Orleans, USA*)
- 0800** Bond Strength of a Low-shrinkage Composite-resin Using Different Bonding Strategies. P. SAMIMI*, V. MORTAZAVI, V. ALIZADE, and F. KESHANI (*Isfahan University of Medical Sciences, Iran*)

Seq#: 121 Friday, 23 March 2012, 2 p.m. – 3:15 p.m.
Poster Session, East Hall

Dental Materials: Clinical Studies

- S0801** Whitening Treatment Combined With Bioactive Materials – In Situ Study. H. PINHEIRO* and P.E. CARDOSO (*Universidade de São Paulo, São Paulo, Brazil*)
- 0802** Surrogate Parameter as Outcome Measure in Clinical Trials. B. JUST*, H. RUDOLPH, S. QUAAS, and R.G. LUTHARDT (*Ulm University, Germany*)
- 0803** Long-Term Clinical Evaluation of One-Step Self-Etch Adhesive Systems. H. KUROKAWA*, T. TAKAMIZAWA, A. RIKUTA, K. TSUBOTA, and M. MIYAZAKI (*Nihon University, Tokyo, Japan*)
- 0804** Four-Year Clinical Evaluation of Two Self-Etching Dentin Adhesives. M. OTTENG, S. NIMMO, and K.-J. SODERHOLM* (*University of Florida, Gainesville, USA*)
- 0805** Two-year Clinical Evaluation of Three Adhesives in Class V Restorations. A. ROBLES*, R. SADID-ZADEH, M. ANABTAWI, D. GIVAN, B. WALDO, L. RAMP, D. CAKIR, and J. BURGESS (*University of Alabama at Birmingham, USA*)

- 0806** Correlation of Composite Clinical Wear and In-Vitro Wear. A. KOBASHIGAWA* (*Kerr Corporation, Orange, CA, USA*)
- S0807** Influence of chlorhexidine digluconate on clinical performance of cervical restoration. L. CARVALHO*, G. LOPES, N. SARTORI, S. STOLF, S. SILVA, M. BECKER, and G. ARCARI (*Universidade Federal De Santa Catarina, Florianopolis, Brazil*)
- 0808** Randomized Clinical Trial of Implant-Supported Ceramic-Ceramic Posterior FDPs. J. ESQUIVEL-UPSHAW*, A. CLARK, and K. ANUSAVICE (*University of Florida, Gainesville, USA*)

Seq#: 122 Friday, 23 March 2012, 2 p.m. – 3:15 p.m.
Poster Session, East Hall

Dental Materials: Biocompatibility and Biologic Effects

- 0809** A Novel Antibacterial Resin Composite Containing Quaternary Ammonium Salts. L. HOWARD*, Y. WENG, X. GUO, V. CHONG, R. GREGORY, and D. XIE (*Indiana University, Indianapolis, USA*)
- 0810** Degradation of Resilon/RealSeal™ by Bacteria found in Endodontic Infections. Y. EHRLICH*, J. WHATLEY, R. HUANG, M. LI, F. LIPPERT, K. SPOLNIK, and R. GREGORY (*Indiana University School of Dentistry, Indianapolis, USA*)
- S0811** Resin-monomer modified the expression of antioxidant enzymes. S. KRIFKA*, C. PETZEL, K.-A. HILLER, G. SPAGNUOLO, A. JEWETT, G. SCHMALZ, and H. SCHWEIKL (*University of Regensburg, Germany*)
- 0812** Improved Method to Assess Titanate-Metal Suppression of Oral Cancer Metabolism. J. DRURY*, J. WONG, S. DOGAN, M. ELVINGTON, R. RUTHERFORD, D. HOBBS, and J. WATAHA (*University of Washington, Seattle, USA*)
- S0813** Biodegradation of Dental Resin Composites by Oral Bacteria. M. BOURBIA*, D. MA, D. CVITKOVITCH, P. SANTERRE, and Y. FINER (*University of Toronto, Canada*)
- S0814** Cytotoxic Effects of HEMA on Gingival Epithelial Cells. R. BOWMAN*, A. COSTA, F. GARCIA-GODOY, and J. BABU (*University of Tennessee, Memphis, USA*)
- S0815** Induction of Epithelial cell Toxicity by TEGDMA. D. MALLARD*, J. BABU, É. BANZI, and F. GARCIA-GODOY (*University of Tennessee, Memphis, USA*)
- 0816** Biocompatibility of five synthesized dental monomers. Y. WANG*, T. LALLIER, J.-F. ZHANG, Y. FAN, and X. XU (*Louisiana State University, New Orleans, USA*)
- S0817** Blue Curing Light Exposure Alters RANKL:OPG Ratios in PDLFs. M. LUDLEY*, I. ZAKHARY, P. LOCKWOOD, V. MCCLOUD, R. MESSER, and J. LEWIS (*Georgia Health Sciences University, Augusta, USA*)
- 0818** Dimethacrylate Monomers and Photoinitiators Alter *Streptococcus mutans* Biofilms. N. LIN*, C.E. KEELER, A. KRAIGSLY, and S. LIN-GIBSON (*National Institute of Standards and Technology, Gaithersburg, MD, USA*)
- S0819** Volumetric Assessment of Oral Microcosm Biofilms Grown on Resin Composites. A. WEAVER*, J. RUDNEY, R. CHEN, R. CHITYALA, A. FOK, C. APARICIO, and R. JONES (*University of Minnesota School of Dentistry, Minneapolis, USA*)
- S0820** Blue Light Exposure Rapidly Enhances HO-1 Production in Monocytic Cells. Y. TOMLINSON*, N. ECHOLS, V. MCCLOUD, P. LOCKWOOD, R. MESSER, and J. LEWIS (*Georgia Health Sciences University, Augusta, USA*)
- S0821** Cytotoxicity of Dental restorative Composites on Gingival Epithelial Cells. B. TAYLOR*, F. GARCIA-GODOY, and J. BABU (*University of Tennessee, Memphis, USA*)

- 0822** Biocompatibility of light-cured orthodontic bonding adhesives: a preliminary study. J.D. ENGLISH, S. AKYALCIN, J. MCHONE*, A. CAVENDER, S. MARIANI, and I. GAY (*University of Texas – Houston/Health Science Center, USA*)
- 0823** Titanates and Titanate-Auranofin Complexes for Potential Treatment of Cancer. R. KHASHABA*, D. HOBBS, and M. MOUSSA (*Medical College of Georgia, Augusta, USA*)
- S0824** Cytotoxicity Evaluation of BIS-GMA and UDMA in V79 Fibroblast Cells. T.R. OLIVEIRA*, D. ANDRADE, G. SILVA, C.H. CAMARGO, S.E. CAMARGO, and M. ARELARO (*São Paulo State University, São José dos Campos, Brazil*)
- S0825** Cytotoxicity of Two Root Canal Sealers in V79 Fibroblast Cells. D. ANDRADE*, T. OLIVEIRA, G. SILVA, A. RIBEIRO, C.H. CAMARGO, and S.E. CAMARGO (*University of Florida College of Dentistry, Gainesville, USA*)

Seq#: 123 Friday, 23 March 2012, 2 p.m. – 3:15 p.m.
Poster Session, East Hall

Dental Materials: Polymer-based Materials – Chemistry and Composition

- 0826** Acrylate/methacrylate Comonomer Combinations to Control Nanogel Structural Development. M. BARROS* and J. STANSBURY (*University of Colorado, Aurora, USA*)
- 0827** Low Tg Nanogels as Reactive Additives in Polymeric Dental Materials. S. LEWIS*, M. BARROS, M. MAKHIJA, and J. STANSBURY (*University of Colorado, Aurora, USA*)
- 0828** Studies with Solvent-dispersed Reactive Nanogels. M. MAKHIJA*, S. LEWIS, and J. STANSBURY (*University of Colorado, Aurora, USA*)
- S0829** Two-way Permeability of Ion Permeable Microcapsules for Remineralization. T. GREVING*, M. SCHMIDT, W. MCHALE, M. LATTA, and S. GROSS (*Creighton University, Omaha, NE, USA*)
- S0830** Temperature and Counterion Effect on Ion Release from Ion-Permeable Microcapsules. M. SCHMIDT*, T. GREVING, W. MCHALE, M. LATTA, and S. GROSS (*Creighton University, Omaha, NE, USA*)
- 0831** Microcapsule Chemical Structure Effect on Phosphate Release from Varnish Formulations. S. GROSS*, M. FALBO, P. ELASSAL, T. GREVING, M. LATTA, and W. MCHALE (*Creighton University, Omaha, NE, USA*)
- S0832** Methods to Control Composition, Kinetics and Properties in Phase-separated Resins. C. VRANEY*, M. BARROS, C. PFEIFER, and J. STANSBURY (*University of Colorado, Aurora, USA*)
- 0833** Development of Antimicrobial Monomer Systems. M. LASCHUK*, M. YANG, Y. DELAVIZ, and P. SANTERRE (*University of Toronto, Canada*)
- S0834** Fluoride release and recharge of antibacterial and fluoride-releasing sealants. E. HENDER*, Y. WANG, J.-F. ZHANG, J. HAGAN, and X. XU (*Louisiana State University, New Orleans, USA*)
- S0835** Four Week Fluoride Release of Various Dental Materials. M. OGLEDZKI*, C. DECOTEAU, M. FINKELMAN, G. KUGEL, and R. PERRY (*Tufts University, Boston, MA, USA*)
- S0836** Phenyl-propanedione and curing light influence experimental resin's physical-mechanical properties. M.A. CARVALHO*, D. OLIVEIRA, E.J. SOUZA-JUNIOR, W. BRANDT, G.E. HENRIQUES, M.A. SINHORETI, and L.A.M.S. PAULILLO (*Piracicaba Dental School, Brazil*)

- 0837** Novel Resins for Dental Composites and Sealants. J. DUFF*, T. BARCLIFT, S. NEWMAN, J. STANSBURY, S. LEWIS, and D. ABUELENAIN (*Esstech, Inc, Essington, PA, USA*)
- S0838** Surface Roughness and Filler Particles Characterization of Composite Resins. R. PACHECO*, M. DI FRANCESCANTONIO, and M. GIANNINI (*State University of Campinas, Piracicaba, SP, Brazil*)

Seq#: 124 Friday, 23 March 2012, 2 p.m. – 3:15 p.m.
Poster Session, East Hall

Dental Materials: Polymer-based Materials-Physical Properties and Performance – Glass Ionomers and Prosthetic Materials

- 0839** A new class of Fillers for Dental Composites. D. KRUBER*, T. DOEGE, and R. GOEBEL (*Quarzwurke GmbH, Frechen, Germany*)
- S0840** Determination of Fracture Toughness of Provisional Dental Materials. C. LARSEN*, M. HARSONO, M. FINKELMAN, and R. PERRY (*Tufts University, Boston, MA, USA*)
- 0841** Support of Prevention of Gingivitis by Temporary Crown&Bridge Materials. S. HADER*, C. WIEDIG, R. HECHT, U. HOEISEL, M. HAUKE, and I. HAEBERLEIN (*3M ESPE AG, Seefeld, Germany*)
- 0842** Excess-Cement Clean-Up of Novel Resin-Modified Glass-Ionomer Cement: Tack Light-Cure Option. A. FALSAFI*, T. TRAN, Y. WANG, T. TON, and J. OXMAN (*3M ESPE Dental Products, Saint Paul, MN, USA*)
- 0843** Dimensional Accuracy of Polyvinylsiloxane Impressions Models Subjected to Temperature Extremes. P. GAYED*, J. PALANCI, and W. WAGNER (*University of Detroit Mercy, MI, USA*)
- 0844** Repair Technique for Fluoride-releasing Core Build-up Material Containing S-PRG Filler. H. SHIOI*, T. NAKATSUKA, K. KIMOTO, K. SHINNO, A. NAGAFUJI, Y. JOGETSU, S. TATEISHI, and M. DEGUCHI (*SHOFU INC, Kyoto, Japan*)
- S0845** Effect of Protective Coating on Fluoride Release from Glass Ionomer. D. YANG and E. WANG* (*Loma Linda University, CA, USA*)
- 0846** Aesthetic Characteristic of New Self-adhesive Resin Cement That Employs PRG-technology. Y. JOGETSU*, T. NAKATSUKA, K. SHINNO, D. HARA, and M. DEGUCHI (*SHOFU INC, Kyoto, Japan*)
- S0847** Mechanical Properties of Flowable Composite Resins and a Giomer. V. KALAVACHARLA*, R. ROBLES, Q. CAI, D. CAKIR, P. BECK, L. RAMP, and J. BURGESS (*University of Alabama at Birmingham, USA*)
- 0848** Flexural Strength and Modulus of Bioactive Glass-containing, Anti-microbial Dental Composites. J. MITCHELL*, J. FERRACANE, F. GWINNER, M. WANG, S. SALEHI, and J. KRIZIC (*Oregon Health & Science University, Portland, USA*)
- 0849** Hydrophilic Properties Of Commercial PVS Impression Materials. M. DURALI* and C. LUU (*Sybron Dental Specialties, Orange, CA, USA*)
- 0850** Contact Angles Amongst Impression Materials, Set and Unset. S. NEWMAN*, A. SUN, and B. TROMMETER (*University of Colorado, Centennial, USA*)
- S0851** Flexural Loading Strength of Provisional Restorative Material. C. DEFURIA*, M. HARSONO, J. TOWERS, R. PERRY, and G. KUGEL (*Tufts University, Boston, MA, USA*)

- 0852** Properties of Resin Based Lining Cements, Wet and Dry. D. BARRY*, S. NEWMAN, F. BADEJOKO, and M. ELANGO (*University of Colorado, School of Dental Medicine, Aurora, USA*)

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Poster Session, East Hall

Dental Materials: Polymer-based Materials-Physical Properties and Performance – Shrinkage Phenomena and Wear in Resin-composites

- 0853** Volumetric Polymerization Shrinkage Characteristics of Provisional Crown & Bridge Materials. A. TIBA*, R.J. GEARY, and J.C. KUEHNE (*American Dental Association, Chicago, IL, USA*)
- 0854** Nanocomposites Containing CaF₂ Nanoparticles: Thermal Cycling, Wear and Long-Term Water-Aging. M. WEIR*, J. MOREAU, E. LEVINE, H. STRASSLER, L. CHOW, and H. XU (*University of Maryland Dental School, Baltimore, USA*)
- 0855** Laboratory Wear Assessment Using Two Measurement Systems. W.W. BARKMEIER*, M.A. LATTI, and T.M. WILWERDING (*Creighton University, Omaha, NE, USA*)
- 0856** Shrinkage Stress Compensation in Composite-Restored Teeth: Relaxation or Hygroscopic Expansion?. L.A. MERIWETHER*, B.J. BLEN, R.H. HATCH, D. TANTBIROJN, and A. VERSLUIS (*University of Tennessee, Memphis, USA*)
- 0857** Three-body Wear of Flowable Resin Composite for Posterior Tooth Restoration. Y. TAIRA*, C. KATO, M. SUZUKI, and K. SHINKAI (*The Nippon Dental University, Niigata, Japan*)
- 0858** Shrinkage and Contraction Force of Bulk-filling and Microhybrid Composites. K. VOGEL* and V. RHEINBERGER (*Ivoclar Vivadent AG, Schaan, Liechtenstein*)
- 0859** Comparison of Silorane and Methacrylate-based Composites on the Polymerization Heat. R. GUIRALDO*, S. CONSANI, R. CONSANI, S. BERGER, A. CORRER, M. SINHORETI, M.B. LOPES, and L. CORRER-SOBRINHO (*University of North Parana, Londrina – PR, Brazil*)
- 0860** Polymerization Shrinkage and Hardness of Three Bulk Fill Flowable Resins. D. GARCIA*, P. YAMAN, J. DENNISON, and G. NEIVA (*University of Michigan, Ann Arbor, USA*)
- 0861** Cusp Deformation of Bonded Class II RBC Determined by DIC. B. LACROIX*, S. GERALDELI, C. SHEN, K.-J. SÖDERHOLM, and P. IFJU (*University of Florida, Gainesville, USA*)
- S0862** Volumetric Polymerization Shrinkage of Flowable Dental Composites. K. KNECHT*, Y. FAN, A. RIPPS, and X. XU (*Louisiana State University, New Orleans, USA*)
- 0863** New Flowable Composite With Low Shrinkage And Excellent Physical Properties. V. BUI, A. KOBASIGAWA, H. GARZA, L. HOANG, W. HUANG*, and D. TOBIA (*Kerr Corporation, Orange, CA, USA*)
- S0864** Wear of Six Composite Resin Restorative Materials. M. KYSON*, D. KOJIC, P. BECK, L. RAMP, D. CAKIR, J. BURGESS, and S. KYSON (*University of Alabama at Birmingham, USA*)
- 0865** Wear of Glass Ionomer Restorative Materials. R. ROBLES*, V. KALAVACHARLA, P. BECK, L. RAMP, D. CAKIR, and J. BURGESS (*Auburn University, Birmingham, AL, USA*)
- 0866** Polymerization shrinkage of different composite resins. A.L.S. BORGES*, A.C.O. SOUZA, C. LEONE, A. ARATA, and R. TANGO (*Sao Paulo State University – Júlio de Mesquita Filho, Sao Jose dos Campos, Brazil*)

S0867 In vitro wear of denture teeth against human enamel. S. GODBOLE*, B. BALADHANDAYUTHAM, D. CAKIR, P. BECK, L. RAMP, and J. BURGESS (*University of Alabama at Birmingham, USA*)

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Poster Session, East Hall

Behavioral, Epidemiologic, and Health Services Research – Behavioral, Epidemiologic, and Health Services Research IV

- S0868** Factors Affecting the Placement and Replacement of Dental Restorations. S. SILVANI, R. TRIVELATO, L. GONÇALVES, and V. GERALDO-MARTINS* (*Universidade de Uberaba, Brazil*)
- 0869** Dental Caries Among Young Children With Special Health Care Needs. A. REEVES, C. HUEBNER, J. SCOTT*, and P. LEGGOTT (*University of Washington, Seattle, USA*)
- S0870** Validity of using intraoral photographs in assessing orthodontic treatment need. D. MEISHA*, J. JONES, and L. WILL (*Boston University, MA, USA*)
- 0871** Factors Affecting Patients' Selection of an Orthodontic Practice. C. ELGIN*, K. VIG, M. BECK, and A. FIRESTONE (*Ohio State University, Columbus, USA*)
- 0872** Dentists' Use of Pediatric Behavior Guidance Techniques. M. PHAM, I. PUNWANI*, S. FADAVI, A. SEMPRUM-CLAVIER, and A. KOERBER (*University of Illinois – Chicago, USA*)
- 0873** Readability Analysis of Online Dental Informed Consent Documents. P. SUPAN and R. BLOCK* (*Meharry Medical College, Nashville, TN, USA*)
- 0874** Reasons Relating to Whether or Not Female Dentists Work Full-time. A. JENNINGS, R. KUTHY*, F. QIAN, T. MARSHALL, and M.R. MCQUISTAN (*University of Iowa, Iowa City, USA*)
- S0875** Adults with Intellectual/Developmental Disabilities: Medication Utilization and Untreated Caries. S.K. CHOI*, W. TAO, P. STARK, and J. MORGAN (*Tufts University, Boston, MA, USA*)
- S0876** Systemic Health Conditions: African American versus Caucasian Complete Denture Patients. E. SZYLKOWSKA*, L.M. KASTE, J. SCHREINER, S.C. GORDON, and D. LEE (*University of Illinois – Chicago, USA*)
- 0877** Expectations about dental implant treatment among postmenopausal women. D. ORTIZ*, S. REISINE, M. FREILICH, D. PENDRYS, D. SHAFER, P. TAXEL, and K. RENGASAMY (*University of Connecticut, New Britain, USA*)
- 0878** Four-year Caries Incidence in Iowa Fluoride Study Teenagers. B. BROFFITT*, S. LEVY, J. WARREN, J. KOLKER, and K. WEBER-GASPARONI (*University of Iowa, Iowa City, USA*)
- 0879** Associations Between Tap/Bottled Water Consumption And Caries In Adolescents . F. QIAN*, B. BROFFITT, S.M. LEVY, J.J. WARREN, K. WEBER-GASPARONI, and J.L. KOLKER (*University of Iowa, Iowa City, USA*)
- S0880** Use of Complementary and Alternative Medications in Children. J. RICHARDS*, J. REU, and S. THIKKURISY (*Ohio State University, Westerville, USA*)
- 0881** Oral Health Students' Perceptions on Addressing Signs of Disordered-Eating Behaviors. R. DEBATE, D. CRAGUN, H. SEVERSON, U.S. HANUBAL*, F.A. LAGA, and A. GALLENTINE (*University of South Florida, Tampa, USA*)

S0882 Predisposing Factors For Dental Caries in Brazilian Children. L. ABREU*, M. MARTINS, M. VALE, F. SARDENBERG, M.H.N.G. ABREU, S. PAIVA, and I. PORDEUS (*Universidade Federal de Minas Gerais (Federal University of Minas Gerais), Belo Horizonte, MG, Brazil*)

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Poster Session, East Hall

Education Research – Curriculum Issues and Teaching Methods: Emerging Research Findings

- 0883** Efficacy of a Web-Based Training Program on Disordered Eating Behaviors. R. DEBATE, H. SEVERSON, D. CRAGUN, C. CANTWELL, T. SHAW, A. GALLENTINE*, S. CHRISTIANSEN, A. KOERBER, S. TOMAR, W. HENDRICSON, K. MCCORMACK BROWN, and L. TEDESCO (*University of South Florida, Tampa, USA*)
- 0884** Dental Simulation Teaching and Learning: Students' Perspectives. M. FOGELMAN* and H. VON BERGMANN (*University of British Columbia, Vancouver, Canada*)
- 0885** Biomedical Literature Searching: PubMed MeSH vs. Clinical Queries. C. KARTALTEPE, J. RUGH*, J.P. HATCH, and E. KARTALTEPE (*University of Texas – San Antonio / Health Science Ctr, USA*)
- 0886** Can Different Dental Flosses Influence The Perception Of Interproximal-Contact Tightness?. J. JOSEPH*, N. SARTORI, S. DUARTE, and J.-H. PHARK (*Case Western Reserve University, Cleveland, OH, USA*)
- S0887** Assessing Methodology on Teaching Clinical Head and Neck Examination. S. JACAS*, N. CLARK, and P. SANDOW (*University of Florida, Gainesville, USA*)
- 0888** Effectiveness of a dental injection simulator as a training tool . J. LEE*, A. OLIKER, and M. HOSSAINI (*University of California – San Francisco, USA*)
- 0889** Dental Licensure Examination: Curriculum Integrated Versus Traditional Formats. S. DESAI, V. ALLAREDDY*, T.H. HOWELL, R.B. DONOFF, and N. KARIMBUX (*Harvard University, Boston, MA, USA*)
- 0890** Initial Success of the Dean's Research Honors Scholarship at TUSDM. E. DOHERTY*, G. KUGEL, M. GONTHIER, and L. NORRIS (*Tufts University, Boston, MA, USA*)
- 0891** Reliability of Faculty Evaluations of Dental Students' Grades in Prosthodontics. T. MARGHALANI*, S. BAHANNAN, A. MAGHRABI, and M. AYAD (*King Abdulaziz University, Jeddah, Saudi Arabia*)
- 0892** Pediatric Dentistry Clinical Performance. Longitudinal Study with Undergraduate Students. S.M.B. SILVA*, A.L.S. COTA, M.A.A.M. MACHADO, T.M. OLIVEIRA, and D. RIOS (*University of São Paulo, Brazil, Bauru, Brazil*)
- S0893** Student Opinions About Real World Barriers to Implementing Evidence-Based Practice. C. PHILLIPS*, J.D. RUGH, J.P. HATCH, and S. MATTESON (*University of Texas – San Antonio / Health Science Ctr, USA*)
- S0894** Integration of Outreach into the Dental School Curriculum. J. DALEO*, D. COLOSI, D. PAQUETTE, and D. CANNELLA (*State University of New York – Stony Brook, USA*)
- 0895** Training In American English Intonation For International Health Care Professionals. N. ISLAM* and P. KHURANA (*INDIANA UNIVERSITY SCHOOL OF DENTISTRY, Indianapolis, USA*)

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Poster Session, East Hall

Dental Anesthesiology Research – Dental Anesthesiology Research II

S0896 A Study of Intravenous Sedation for Implant Surgery. M. FUKUSHIMA*, H. KAWAII, T. SAITO, and S. YAMAZAKI (*Ohu University School of Dentistry Ohoku, Koriyama, Japan*)

Seq#: 129 Friday, 23 March 2012, 2 p.m. – 3:15 p.m.
Poster Session, East Hall

Oral Health Research – Oral Hygiene Care

0897 Acceptance of Innovative Caries Management in a Community Dental Clinic. K. CAMPBELL*, R.L. HARRISON, C. NG, and P. GLASSBY (*University of British Columbia, Vancouver, Canada*)

S0898 Cariogenicity of Diets of Children Attending Head Start vs. Daycares. K. CZARKOWSKI* and J. KOWOLIK (*University of Indiana – Indianapolis, USA*)

0899 Influence of Lifestyle on Caries Frequency and Periodontal Disease. B. WILLERSHAUSEN*, D. RICHARZ, I. WILLERSHAUSEN, and B. BRISEÑO MARROQUÍN (*University of Mainz, Germany*)

0900 Survey Measuring Absences Related to Toothaches: The SMART Survey. T. PERKINS*, V. WINSTON, and I. PERKINS (*University of Mississippi Medical Center, Jackson, USA*)

0901 6-Week Clinical Trial Comparing Combination Hygiene and Professional Care. C. GARCIA-GODOY, V. MONZON*, J. ROTHROCK, M. BARKER, M.C. MINER, and R. GERLACH (*Nova Southeastern University, Ft. Lauderdale, FL, USA*)

0902 6-Week Combination Oral Hygiene Effects on Plaque and Gingivitis. P. AMINI, M. BARKER, S. BARRETT, M. GABBARD, A. WALANSKI*, and R. GERLACH (*Procter & Gamble Company, Mason, OH, USA*)

0903 Visible Bleeding upon Brushing and Clinical Gingivitis Severity. I. MAGNUSSON, J. DOUBERLY*, B. HALES, M. BARKER, and R. GERLACH (*University of Florida, Gainesville, USA*)

0904 Combination Oral Hygiene Effects on Plaque and Gingivitis in Orthodontics. K. KARPINIA*, I. MAGNUSSON, A.A. WALANSKI, M. BARKER, and R. GERLACH (*University of Florida, Gainesville, USA*)

0905 Undisclosed Visible Plaque as a Descriptor to Disclosed Plaque. M. CRONIN, T. BALLESTEROS*, M. SCHADT, T.A. LISANTE, M.-M. WU, and M. ARAUJO (*Johnson & Johnson, Morris Plains, NJ, USA*)

0906 Routine Dental Checks Reduce Pneumogenic Microbes in Oral Cavity. T. OGAWA*, K. IKEBE, T. OKADA, M. HONDA, K. ENOKI, Y. TERAOKA, S. KAWABATA, and Y. MAEDA (*Osaka University, Suita, Osaka, Japan*)

0907 Survey of Dental Hygiene Journal Peer Reviewers. A. SPOLARICH* and R. WILDER (*Arizona School of Dentistry and Oral Health, A.T. Still University, Mesa, USA*)

Seq#: 130 Friday, 23 March 2012, 2 p.m. – 3:15 p.m.
Poster Session, East Hall

Mineralized Tissue – Enamel Formation and Pathologies.

S0908 Calcium Phosphate Growth on Amelogenin Nanoribbons. P. ISHANI AFOUSI*, O.M. MARTINEZ-AVILA, and S.F. HABELITZ (*University of California – San Francisco, USA*)

S0909 Physical Properties of the Enamel of Deciduous and Permanent Teeth. J. GOMES-SILVA*, C. TORRES, M.A. MENEZES-OLIVEIRA, L. PARDINI, M.C. BORSATTO, and R. PALMA-DIBB (*Faculdade de Odontologia de Ribeirão Preto-University of Sao Paulo, Brazil*)

S0910 Mineralization Defects of Murine Teeth and Mandible in Hereditary Hypophosphatemia. A. GARCIA-GODOY*, A. KARYDIS, V. DAVID, A. MARTIN, F. GARCIA-GODOY, and L.D. QUARLES (*University of Tennessee, Memphis, USA*)

0911 Enamel remineralization by amelogenin-containing hydrogel with oral simulated biofilm. Y. FAN*, S. LIAO, Z. WEN, and X. XU (*Louisiana State University, New Orleans, USA*)

0912 Phosphate Regulates Fibromodulin Expression Through the ERK Pathway in Ameloblasts. H. YOSHIOKA*, Y. YOSHIKO, Y. IRIE, T. MINAMIZAKI, Y. KATO, T. SUGIYAMA, and N. MAEDA (*Hiroshima University Graduate School of Biomedical Sciences, Japan*)

S0913 An internal reference for CBCT based bone mineral density measurement. S. GANS*, T.T. TAYLOR, A.H. KIM, E. JUNG, J. CHO, and D.-G. KIM (*Ohio State University, Columbus, USA*)

0914 Amelogenin Is a Novel Substrate of MMP-9. R. WEBER*, J. FENG, J. MCDANIEL, A. RAKIAN, X. XU, B. STEFFENSEN, Y.-H.P. CHUN, K. DONLY, M. MACDOUGALL, J. SIMMER, and S. CHEN (*U.S. Air Force Dental Service, San Antonio, TX, USA*)

S0915 3D Modeling of Enamel Formation. L. EHARDT*, A. ROUNTREY, E. BRESCIANI, D. FISHER, and P. PAPAGERAKIS (*University of Michigan, Ann Arbor, USA*)

0916 Stage-Specific Analysis of Enamel Formation by Micro-Computed Tomography. J. TEEPE*, J. SCHMITZ, S. HARRIS, Y. YAMADA, C. SMITH, R. FAJARDO, and Y.-H.P. CHUN (*U.S. Air Force Dental Service, San Antonio, TX, USA*)

S0917 Ameloblastin Expression Levels Influence Smoothness of the Enamel Surface. T. PATEL*, J. TEEPE, L.P. MAU, J. SCHMITZ, Y. YAMADA, J. SIMMER, C. SMITH, R.J. FAJARDO, and Y.-H.P. CHUN (*Trinity University, San Antonio, TX, USA*)

0918 Hounsfield Units Shown in CBCT is Affected by Surrounding Tissue. F. JIANG* and J. CHEN (*Indiana University Purdue University Indianapolis, USA*)

S0919 Hydroxyapatite Nucleation using Biomimetic Peptides. J. PADOVANO*, S. RAVINDRAN, and A. GEORGE (*University of Illinois at Chicago, USA*)

Seq#: 131 Friday, 23 March 2012, 2 p.m. – 3:15 p.m.
Poster Session, East Hall

Microbiology / Immunology – Streptococcal Species

0920 The Effect of Nicotine on *Streptococcus mutans* Anaerobic Growth. M. ALDOSARI, R. HUANG, M. LI, A. ALDOSARI, and R. GREGORY* (*Indiana University, Indianapolis, USA*)

S0921 Influence of Tea Polyphenols and Nicotine on *Streptococcus Mutans* Growth. J. FOLTZ*, M. LI, R. HUANG, and R. GREGORY (*Indiana University School of Medicine, Indianapolis, USA*)

S0922 Acidogenesis and Acid Tolerance of Mutans Streptococci in Carious Lesions. T. WONG, A. VO*, S. CHAUDHRY, G. SIMMONS, J. HACKER, M. CITO, J. PETERSON, J. ENGLE, E. PALMER, T. MAIER, and C. MACHIDA (*Oregon Health & Science University, Portland, USA*)

S0923 Acid-Tolerant Mutans Streptococci Strains Prefer Composite Surfaces in Selected Patients. E. PALMER, J. OOI, W. MARRA, T. WONG, A. VO, A. TREVOR*, M. CITO, E. ROBINSON, K. BEDFORD, S. CHAUDHRY, G. SIMMONS, J. HACKER, J. PETERSON, J. ENGLE, T. MAIER, and C. MACHIDA (*Oregon Health & Science University, Portland, USA*)

0924 Carious Lesions and Enamel Surfaces Harbor Distinct Mutans Streptococci Strains. E. ROBINSON, K. BEDFORD, A. TREVOR, M. CITO, J. OOI, W. MARA, S. CHAUDHRY, G. SIMMONS, J. HACKER, J. PETERSON, J. ENGLE, T. MAIER, E. PALMER*, and C. MACHIDA (*Oregon Health & Science University, Portland, USA*)

S0925 Phenotypic Characterization of Genetically-Diverse Clinical Isolates of *Streptococcus mutans*. S. PALMER*, L. ZENG, T. LEFEBURE, M. STANHOPE, and R. BURNE (*University of Florida, Gainesville, USA*)

S0926 Effects of antiseptics on *Streptococcus gordonii* biofilms. T. VIOLANTE*, E.M. HAASE, S. CIANCIO, and M.M. VICKERMAN (*State University of New York – Buffalo, USA*)

S0927 S-IgA Associated with *Streptococcus mutans* and Caries in Children. K. CHEON*, N. DOPPALAPUDI, F. YU, S. MOSER, G. CUTTER, S. MICHALEK, and N.K. CHILDERS (*University of Alabama at Birmingham, USA*)

S0928 Antibody Responses to Mutans Streptococci in School-Aged Children. A. NGUYEN*, H. OUEIS, C. ZEITZ, M. O'REGAN, and M. SALAM (*University of Detroit Mercy, MI, USA*)

S0929 Characterization of *Streptococcus mutans* SMU787 Locus. B. MCKEY*, J. BITOUN, X. YAO, S. LIAO, and Z. WEN (*Louisiana State University, New Orleans, USA*)

S0930 SspA carboxyl-terminal peptide regulates adhesion expression in *S. gordonii*. M. KERN*, B. GUENTHER, K.F. ROSS, and M.C. HERZBERG (*University of Minnesota, Minneapolis, USA*)

0931 Oral Microbial Biomarkers in Crohn's Disease in Children. H. BOISVERT*, M. DOCKTOR, A. BOUSVAROS, Y. WANG, M. DUNCAN, S. ABRAMOWICZ, S. COTTON, A. KOKARAS, S. WEBER, and B. PASTER (*Forsyth Institute, Cambridge, MA, USA*)

S0932 Mutans Streptococci from Clinical Samples Using Real-time Quantitative PCR. C. MANMONTRI*, J.D. RUBY, G.R. CUTTER, R. OSGOOD, H. WIENER, T. WILEY, and N.K. CHILDERS (*University of Alabama, Birmingham, USA*)

0933 Structural Analysis of a Streptococcal Domain of Unknown Function (DUF1792). H. ZHANG*, F. ZHU, M. ZHOU, L. DING, and H. WU (*University of Alabama at Birmingham, USA*)

0934 Associations Between S-IgA, *Streptococcus mutans* Colonization and Caries in Infants. N. CHILDERS*, F. YU, T. WILEY, H. WIENER, M. KEMPE, G.R. CUTTER, and S. MICHALEK (*University of Alabama at Birmingham, USA*)

0935 Purification and Crystallization of PadA of *Streptococcus gordonii*. L. WARREN*, M. LARSON, S. KHALED, H. PETERSEN, S. KERRIGAN, H. JENKINSON, and C. DEIVANAYAGAM (*University of Alabama at Birmingham, USA*)

0936 *Streptococcus mutans* Cnm Protein Facilitates Invasion of CASMC. B. BERGERON*, E. SAMPSON, I. SILVA, I.C. ALBU, A. PROGULSKE-FOX, and J. ABRANCHES (*University of Florida, Gainesville, USA*)

S0937 Wound Healing of HCAEC Affected by *Streptococcus mutans* OMZ175 Invasion. I. ALBU*, E. SAMPSON, I. SILVA, W. SWONGER, B. BERGERON, and A. PROGULSKE-FOX (*University of Florida, Gainesville, USA*)

Seq#: 132 Friday, 23 March 2012, 2 p.m. – 3:15 p.m.
Poster Session, East Hall

Oral Medicine & Pathology – Cancer

S0938 MUC1 Expression in Human Tongue Cancer. R. KAWASHIMA*, Y. JINBU, H. ONODERA, M. SASE, H. ITOH, T. NOGUCHI, M. KUSAMA, and K. TSUKINOKI (*Jichi Medical University, Shimotsuke, Japan*)

0939 Cytotoxicity of Liposomal C6-Ceramide in Oral Squamous Cell Carcinoma Cells. M. YEE*, S. SUTTER, B. PLOWMAN, N. SAID-AL-NAIEF, and N. DÜZGÜNES (*University of the Pacific, San Francisco, CA, USA*)

S0940 Plasminogen Activator Inhibitor-1 (PAI-1) Expression by Cultured Adenocarcinoma Cells. M. MOSHEA*, D. KIM, A. FRANKLIN, A. SHAHIRYAR, M. JEFFERSON, E. THOMAS, and M. DABBOUS (*University of Tennessee, Memphis, USA*)

S0941 Cytokeratin Expression in Localized Juvenile Spongiotic Gingival Hyperplasia. K. LAMMERT*, R. SPEARS, J. WRIGHT, and A. NAIDU (*Baylor College of Dentistry, Dallas, TX, USA*)

0942 La Protects Against Cisplatin-Induced Apoptosis in Oropharyngeal SCC Cells. G. SOMMER, A. BROCK*, and T. HEISE (*Medical University of South Carolina, Charleston, USA*)

S0943 Characterization of Senescence-Associated Secretory Profile of iPSC Derived Fibroblasts. Y. SHAMIS, L. REIN*, K. HEWITT, E. KNIGHT, A. SMITH, A. MAIONE, and J. GARLICK (*Tufts University School of Dental Medicine, Boston, MA, USA*)

S0944 Sal-B inhibits Cisplatin-resistant HNSCC Growth by Targeting Ceramide-mediated Signaling Pathways. W. SHA, D. ABDELMALAK*, and X. GU (*Howard University, Washington, DC, USA*)

0945 Papillomavirus Detection by Partial or Complete Genome Sequencing. E. COLE*, J. JOH, S. GHIM, M.L. PROCTOR, D.R. DEMUTH, B.S. SHUMWAY, and A.B. JENSON (*University of Louisville, KY, USA*)

S0946 Dissecting House Wrecking and Housekeeping Roles of BAX in Mitochondria. R. RANGE*, P. PEIXOTO, and K. KINNALLY (*New York University, USA*)

S0947 DNA Methylation Profiling of ESC- and iPSC-derived Fibroblasts Using Immunoprecipitation. K. HEWITT, R. JUTLA*, Y. SHAMIS, E. KNIGHT, A. SMITH, L. PARK, S.W. CHOI, and J. GARLICK (*Tufts University School of Dental Medicine, Boston, MA, USA*)

S0948 MicroRNA-125b Inhibits HNSCC Growth By Regulating Bcl-2 Family Expression. Y. ZHAO, P. SMITH-RIOS*, and X. GU (*Howard University, Washington DC, DC, USA*)

S0949 Conditioned Natural Killer Cells Promote Differentiation of Stem Cells. H.-C. TSENG* and A. JEWETT (*University of California – Los Angeles, USA*)

S0950 Estrogen Receptor- α 's Role in Squamous Cell Carcinoma Irradiated with Radiation. K. HONG*, S.W. REDDING, and M. NARATARJAN (*University of Texas – San Antonio / Health Science Ctr, USA*)

Seq#: 133 Friday, 23 March 2012, 2 p.m. – 3:15 p.m.
Poster Session, East Hall

Craniofacial Biology – Bone, TMJ, and Orofacial Function

S0951 Evidence of Bone Remodeling in the Rabbit Jaw. M. ERNST*, A. D'ATRI, M. BECK, and S. HUJA (*Ohio State University, Columbus, USA*)

S0952 Bone Damage Related to Miniscrew Implants in Maxilla and Mandible. J. STOYANOVA*, M. BECK, A. D'ATRI, and S. HUJA (*Ohio State University, Columbus, USA*)

S0953 Periodontal Bone Loss in Rice Rats. M. PAPPAS*, A. D'ATRI, K. EDMONDS, J. CALLARD, M. ALLEN, M. BECK, and S. HUJA (*Ohio State University, Columbus, USA*)

S0954 Histomorphometric Analysis: Effect of Laser and LED on Mandibular Growth. A. EBRAHIM*, J. YEUNG, A. HABIB, T. EL-BIALY, and J. AL-QAHTANI (*University of Alberta, Edmonton, Canada*)

- S0955** Cortical Bone Density Determination with MicroCT Is Highly Reliable. C. CHOATE*, B. CURTIS, L. SMITH, and P. DECHOW (*Baylor College of Dentistry, Dallas, TX, USA*)
- 0956** Accuracy of CBCT Alveolar Bone Measurements Using Multiple Acquisition Parameters. V. COOK, A. TIMOCK, J. CROWE, T. MCDONALD, M. WANG, B. BENNINGER, and D. COVELL, Jr.* (*Oregon Health & Science University, Portland, USA*)
- S0957** Mandibular and Facial Cortical Elastic Properties Differ in Cebus Monkeys. B. CURTIS*, C. CHOATE, L.C. SMITH, and P. DECHOW (*Baylor College of Dentistry, Dallas, TX, USA*)
- S0958** Analysis of Cortical Bone Distribution in the Human Mandible. A. FIGUEROA*, N. HOLTON, S. LANE, and T. SOUTHARD (*University of Iowa, Iowa City, USA*)
- S0959** Rapid Maxillary Expansion Associated With Lasertherapy Improves Early Bone Remodeling. M. ARNEZ*, A. STUANI, E. PINGUEIRO, A.S. STUANI, M.H. HIRATA, and M.B.S. STUANI (*School of Dentistry of Ribeirao Preto, University of Sao Paulo, Ribeirao Preto, Sao Paulo, Brazil*)
- 0960** Immortalization and Characterization of Mouse Temporomandibular Joint Disc Cells. J. HOSOMICHI*, Y. PARK, and S. KAPILA (*University of Michigan, Ann Arbor, USA*)
- 0961** Relaxin and Estrogen Modulate Targeted Matrix Loss in TMJ Disc. Y. PARK*, N. AHMAD, T. HAYAMI, and S. KAPILA (*University of Michigan, Ann Arbor, USA*)
- S0962** Effects of Fluoride on Condylar Growth and Density. S. ELSAHY*, S. LIU, J. SUN, P. DUNN-JENA, and K. STEWART (*Indiana University School of Dentistry, Indianapolis, USA*)
- 0963** Loss of Occlusion Accelerates Condylar Degeneration in SAMP8 Mice. Y. SHIBUKAWA* (*Tokyo Dental College, Japan*)
- 0964** Intermittent PTH Therapy is Anabolic in TMJ in Young Mice. Y. KAMIYA*, M. XU, A. UTREJA, C. PILBEAM, S.-K. LEE, H. AGUILA, J. CHEN, and S. WADHWA (*Columbia University, New York, NY, USA*)
- 0965** Chewing Patterns Altered by Temporomandibular Joint Internal Derangements. J. RADKE*, R. KULL, and M. SETHI (*Bio-Research Associates Inc, Milwaukee, WI, USA*)
- 0966** Overlap Between Facial and Masticatory Muscle Surface EMG Signals. S. BUCHLER* and J. RADKE (*BioResearch Associates, Inc, Milwaukee, WI, USA*)
- S0967** The Impact of Palatal Local Anesthesia on Pharyngeal Swallowing. S. HOLMAN*, R. CAMPBELL-MALONE, P. DING, S. LUKASIK, and R. GERMAN (*University of Maryland Dental School, Baltimore, USA*)
- 0968** Post-traumatic increases in incisor mobility in farm pigs, *Sus scrofa*. A. PATTERSON and T. POPOWICS* (*University of Washington, Seattle, USA*)

Seq#: 134 Friday, 23 March 2012, 3:30 p.m. – 4:45 p.m.
Poster Discussion Session, Ballroom D

Dental Materials: Polymer-based Materials-Physical Properties and Performance – Light Curing and Polymerization of Resin-composites (PDS)

Chairpersons: S. Antonson and R. Price

3:30 p.m. Poster Viewing Period.

- 0969** 3:50 p.m. Impact of Time, Intensity and Total Energy on Composite Photopolymerization. J. OXMAN*, G. KOBUSSEN, B. HOLMES, C. CAO, M. DORUFF, R. HALVORSON, F. LAPLANT, and A. EIGNER (*3M ESPE, St. Paul, MN, USA*)

- 0970** 3:57 p.m. Polishability and Wear Behaviour of Resin Composite Bulk Fill Materials. S. HEINTZE, M. FORJANIC, G. ZELLWEGER, and S. ANTONSON* (*Ivoclar Vivadent, Williamsville, NY, USA*)
- 0971** 4:04 p.m. Rheometric measurement of polymerization shrinkage and stress of restorative materials. D. SHIN* and B. SUH (*BISCO, Inc, Schaumburg, IL, USA*)
- 0972** 4:11 p.m. Inhibition of Bacteria on a Bioactive Glass-containing, Anti-microbial Sealant Material. L. YARBOROUGH*, J. ENGLE, M. WANG, J.L. FERRACANE, and J. MITCHELL (*Oregon Health & Science University, Portland, USA*)
- S0973** 4:18 p.m. TOSU Addends Maintain Mechanical Properties while Decreasing Polymerization Stress. J. MELANDER*, R.R. HOLMES, R.A. WEILER, B.D. MILLER, K.V. KILWAY, T.S. SCHUMAN, and J.D. EICK (*University of Missouri – Kansas City, USA*)

Seq#: 135 Friday, 23 March 2012, 3:30 p.m. – 4:45 p.m.
Poster Session, East Hall

Evidence-based Dentistry Network

- S0974** Endodontic Meta-analyses: Accuracy of National Library of Medicine's Classification. S. SHIN*, J.D. RUGH, and J.P. HATCH (*University of Texas at San Antonio, USA*)
- 0975** Treatment Decision Concordance for Primary and Secondary Caries: The Dental-PBRN. T. HEAVEN*, M. LITAKER, G. GILBERT, J. FELLOWS, D. RINDAL, V. GORDAN, and DPBRN COLLABORATIVE GROUP, Dental Practice-Based Research Network (*University of Alabama at Birmingham, USA*)

Seq#: 136 Friday, 23 March 2012, 3:30 p.m. – 4:45 p.m.
Poster Session, East Hall

Network for Practice-based Research

- 0976** Training Oral Health Providers in Brief Motivational Interviewing: Pilot Study. C. DEMKO*, A. KOERBER, D. HOMENKO, K. SISK, and K. VICTOROFF (*Case Western Reserve University, Cleveland, OH, USA*)
- 0977** Rubber Dam Use During Root Canal Treatment: from The Dental-PBRN. M. ANABTAWI, G.H. GILBERT*, M. BAUER, G. REAMS, P.L. BENJAMIN, S.K. MAKHIJA, and The DPBRN Collaborative Group (*University of Alabama at Birmingham, USA*)
- 0978** Assessing the Outcomes of Cracked Teeth in Northwest PRECEDENT. T. HILTON*, L. MANCL, Y. COLEY, J. FERRACANE, C. BALTUCK, E. LUBISHICH, A. GILBERT, L. LOWDER, C. BARNES, J. PETERSON, and Northwest PRECEDENT (*Oregon Health & Science University, Portland, USA*)
- 0979** Innovative Colour-matched Multi-purpose Resin-based Cementation System Evaluated by General Practitioners. R. CRISP* and F.J.T. BURKE (*University of Birmingham, United Kingdom*)

Seq#: 137 Friday, 23 March 2012, 3:30 p.m. – 4:45 p.m.
Poster Session, East Hall

Prosthodontics Research – Prosthodontics Applied Research

- 0980** In Vitro Crown Retention Tests Using Three RMGI Cements. C. PAMEIJER* (*University of Connecticut, Simsbury, USA*)
- 0981** Newly developed system for measuring pressure under maxillary complete dentures. Y. KONDO*, J. SATO, T. NARITA, Y. NAITO, Y. FUKUI, and N. GIONHAKU (*Nihon University School of Dentistry, Tokyo, Japan*)

- S0982** Penetration Depths and Volumes of Different Retraction Pastes. D. NOBREGA*, M. NEGLIA, G. KUGEL, and R. PERRY (*Tufts University, Boston, MA, USA*)
- S0983** Effect of Abutment Surface Roughness on Retention After Fatigue Simulation. J.-H. CHEN*, W. NAGY, J. GOODMAN, and E. SOLOMON (*Baylor College of Dentistry, Dallas, TX, USA*)
- S0984** Biomechanics of Single Unit Implant-supported Prostheses: Misfit, Stress and Detorque. C. BHERING*, J.M. TAKAHASHI, L. LUTHI, I. MARQUES, G. HENRIQUES, R. CONSANI, and M. MESQUITA (*Piracicaba Dental School – Campinas State University, Brazil*)
- 0985** Marginal Accuracy of Crowns Made with Recast High Noble Alloy. M. GHULMAN* and M. AYAD (*King Abdulaziz University, Jeddah, Saudi Arabia*)
- S0986** Microstrain Around Dental Implants Supporting Fixed Partial Prostheses. L.G. VASCONCELLOS*, L. VASCONCELLOS, R. NISHIOKA, A. KOJIMA, I. BALDUCCI, and O. ANDREATTA-FILHO (*São Paulo State University (UNESP), São José dos Campos – São Paulo, Brazil*)
- 0987** The effect of screw tightening methods on abutment screw loosening resistance. T. KANCHANAPOOMI*, W. TUMRASVIN, and T. MEKAYARAJJANANTH (*Chulalongkorn University, Bangkok, Thailand*)
- S0988** Wear abrasion testing methodology for denture teeth. R. PERRY, M. HARSONO, A. BROWN*, P. STARK, and G. KUGEL (*Tufts University, Boston, MA, USA*)
- S0989** Evaluation of Sodium Hypochlorite as a Denture Cleanser. S. PORTA*, S.C. DE LUCENA, W.J. DA SILVA, and A.A. DEL BEL CURY (*Piracicaba Dental School – State University of Campinas, Piracicaba – SP, Brazil*)
- S0990** Marginal and Internal Fit of Milled Zirconia Copings/FPD frameworks. M. POSADA*, K. AL-AALI, and D. NATHANSON (*Boston University, MA, USA*)
- S0991** Marginal fit of all-ceramic crowns using conventional and digital impressions. J.-H. PHARK, A.L. OLIVEIRA*, N. SARTORI, E. GIRO, R. KAHN, and S. DUARTE (*Universidade Est. Paulista Julio Mesquita, São Carlos, Brazil*)
- S0992** Dowel material and crown ferrule on the biomechanical of tooth. P. LAZARI*, A.A. CURY, R. ANCHIETA, E. ALMEIDA, A.P. MARTINI, M. WATANABE, and E. ROCHA (*Universidade Estadual de Campinas, Piracicaba, Brazil*)
- 0993** Evaluation of Marginal/Internal Fit of Crown Analysis Technique. M. HARSONO*, M. BEYARI, H. LAMFON, L. FOX, J. PLOURDE, E. KAMINSKY, J. TOWERS, P. STARK, R. PERRY, and G. KUGEL (*Tufts University, Boston, MA, USA*)

Seq#: 138 Friday, 23 March 2012, 3:30 p.m. – 4:45 p.m.
Poster Session, East Hall

Dental Materials: Adhesion – Bond Strength Testing and Mechanisms – Adhesion of Luting Materials II

- 0994** Influence of surface treatment of glass-ceramics on TBS of RMGICs. Y. HOKII*, K. TANAKA, F. FUSEJIMA, and T. SAKUMA (*GC corporation, Tokyo, Japan*)
- 0995** Resin bond strength of surface-treated zirconia implant material. T. YOSHIDA*, M. ITO, and J.A. PLATT (*Indiana University, Indianapolis, USA*)
- 0996** Evaluation of a new device to measure dentin permeability. F. IACONO*, K. AGEE, M.G. GANDOLFI, C. PRATI, F.R. TAY, and D. PASHLEY (*University of Bologna, Italy*)

- 0997** Shear Bond strength of self adhesive cements to ceramics. G. BASSO, S. MONTEIRO JR*, and M.A.C. DE ANDRADA (*Universidade Federal De Santa Catarina, Florianópolis, Brazil*)
- S0998** Variated Placement Procedures of Composite Resins on Dentin Bond Strengths. K. ARMAKAN* (*Howard University, Washington, DC, USA*)
- 0999** Bond Strength Between Repair Systems and Nickel-Chromium Alloy. O. ANDREATTA-FILHO*, M.G. ANDREATTA, L.G.O. VASCONCELLOS, and A.L.S. BORGES (*Universidade Est. Paulista Julio Mesquita, São José dos Campos, Brazil*)
- 1000** Effect of Root-Canal Pretreatment on Fiber Post Bond Strength. B.C. YAMAN*, F. OZER, B. KARABUCAK, F. KORAY, and M. BLATZ (*University of Istanbul, Turkey*)
- S1001** Shear-Bond-Strength of Self-Adhesive Resin Cements (Lithium Disilicate/Zirconia) to Dentin. N. FREDA*, D. NILL, R. PERRY, J. TOWERS, G. KUGEL, and M. HARSONO (*Tufts University, Boston, MA, USA*)
- 1002** Effect of Cisplatin-Titanate Nanoparticles on Composite-Tooth Bond Strength. D. CHAN*, K.-H. CHUNG, and D. HOBBS (*University of Washington, Seattle, USA*)
- 1003** Self-etch Dentin Bonding Agent as Primer for Zirconia Ceramics. H. LIU* and B. KOLTISKO (*DENTSPLY, Milford, DE, USA*)
- 1004** Bond Strength and ARI Evaluation of Anti-Cariogenic Bonding Materials. M. KING, Y. FAN, J. HAGAN, P. ARMBRUSTER, and R. BALLARD* (*Louisiana State University Health Sciences Center, New Orleans, USA*)
- 1005** Effect of Surface Preparations of Stainless Steel Crown on Composite-resin Shear Bond Strength. F. NOURBAKHS*, M. GHAVAM NASSIRI, B. AJAMI, and S. JAFARI (*Razavi Hospital, Mashhad, Iran*)
- S1006** CAD-CAM ceramic crown retention of resin cements. D. KOJIC*, S. SINGHAL, S. JANYAVULA, D. CAKIR, P. BECK, L. RAMP, and J. BURGESS (*University of Alabama at Birmingham, USA*)
- S1007** Evaluation of Bonding Stability Between Treated Y-TZP and Resin Cements. L. MIRAGAYA*, E.M. SILVA, S. MORGANO, and C. SABROSA (*UFF, Rio de Janeiro, Brazil*)
- 1008** Shear Bond Strength Of Two Self-Adhesive Resin Cements To Zirconia. D. QEBLAWI, P. MCCABE*, O. NIHLAWI, and M. CAMPILLO (*Ivoclar Vivadent, Inc, Amherst, NY, USA*)

Seq#: 139 Friday, 23 March 2012, 3:30 p.m. – 4:45 p.m.
Poster Session, East Hall

Dental Materials: Ceramic-based Materials and Cements – Adhesion Studies and Adhesive Properties

- S1009** Effect of different primers on composite bond strength to zirconia. F. MAEDA, Sr.*, M. BELLO-SILVA, C. DE PAULA EDUARDO, P. CESAR, and W. MIRANDA (*University of São Paulo, Brazil*)
- S1010** Retention of zirconia crowns bonded with adhesive resin cements. Q. CAI*, D. CAKIR, P. BECK, L. RAMP, and J. BURGESS (*University of Alabama at Birmingham, USA*)
- 1011** Effect of Acid Etching on Lithium Disilicate Glass Ceramic. Y. MARUO*, M. IRIE, G. NISHIGAWA, Y. TAMADA, K. YOSHIHARA, Y. YAMAMOTO, S. MINAGI, and D. WATTS (*Okayama University, Okayama City, Japan*)
- 1012** Effect of Primers on Bonding of Resin Cements to Ceramics. M. IRIE*, J. TANAKA, Y. TAMADA, Y. MARUO, G. NISHIGAWA, Y. YAMAMOTO, S. MINAGI, and D. WATTS (*Okayama University, Japan*)

- S1013** Effect of Dynamic Load on Adhesion of Metal-free Onlay Restoration. T. YAMADA*, T. MASEKI, and Y. NARA (*Nippon Dental University, Tokyo, Japan*)
- 1014** Influence of Light on Bonding of Dual-cure Resin to Ceramic. F. OZER*, K. KASHYAP, F. MANTE, and M.B. BLATZ (*University of Pennsylvania, Philadelphia, USA*)
- S1015** Effect of mixing methods on the bonding strength of GIC. R. AKATSUKA*, S. FUKUSHIMA, and K. SASAKI (*Tohoku University Graduate School of Dentistry, Sendai, Japan*)
- 1016** Effect of mixing methods on the physical properties of GIC. S. FUKUSHIMA*, R. AKATSUKA, and K. SASAKI (*Tohoku University Graduate School of Dentistry, Sendai, Japan*)
- 1017** Effect of a Desensitizer on the Luting Agents/Dentin Bond Strength. E. TEIXEIRA* and N. RANEY (*University of Texas at San Antonio, USA*)
- 1018** Comparing Different Porcelain Surface Polishing Techniques After Orthodontic Brackets Debonding. H. EID* and N.H. ALI (*Misr University For Science And Technology, Cairo, Egypt*)
- 1019** Nano Silica Improves Bending Properties of Glass Ionomer Cement. G. NISHIGAWA*, Y. MARUO, M. IRIE, Y. TAMADA, M. OKA, Y. YAMAMOTO, K. YOSHIHARA, N. NAGAOKA, and S. MINAGI (*Okayama University, Japan*)
- 1020** Compressive Deflection of Biodentine and Two Glass Ionomer Bases. R. YAPP*, H. STRASSLER, C. BRACHO-TROCONIS, G. RICHARD, and J. POWERS (*Dental Consultants, Inc, Ann Arbor, MI, USA*)
- 1021** Compressive Deflection of Composite Layered on Biodentine and Two Bases. R. YAPP, H. STRASSLER*, C. BRACHO-TROCONIS, G. RICHARD, and J. POWERS (*University of Maryland Dental School, Baltimore, USA*)
- 1022** Marginal and Internal Adaptation of CAD/CAM Endocrown Preparation Designs. K. COOK* and D. FASBINDER (*University of Michigan School of Dentistry, Livonia, USA*)

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Poster Session, East Hall

Dental Materials: Polymer-based Materials-Physical Properties and Performance – Viscoelastic and Biological properties of Polymeric Restorative Materials

- S1023** Shore Hardness of VPS Materials from Unset to Set Consistency. M. NEGLIA*, D. NOBREGA, G. KUGEL, and R. PERRY (*Tufts University, Boston, MA, USA*)
- S1024** Comparing Hydrophilicity of VPS Materials in the Unset Stage. M. NEGLIA, D. NOBREGA, N. SHAKOURIAN*, G. KUGEL, and R. PERRY (*Tufts University, Boston, MA, USA*)
- 1025** Long-term viscoelastic properties of soft lining material containing fluorinated monomer. Y. KASUGA*, Y. HOSHINO, M. INOUE, H. IBARAKI, Y. NAGASAWA, Y. HIBINO, H. TAKAHASHI, Y. SUMI, S. MINAKUCHI, and H. NAKAJIMA (*Meikai University School of Dentistry, Saitama, Japan*)
- 1026** New Monomers as Alternatives to Bis-GMA. K. ESQUIBEL, S. REED, S. REMY*, D. LOWRY, J. RAMIREZ, K. AKAL, A. SOTIROS, L. SCHOENFELD, M. KUMOR, M. TRUJILLO-LEMON, and C. BRACHO-TROCONIS (*Septodont, Colorado Research Center, Louisville, USA*)

- 1027** Stickiness of Unset Dental Composites as a Function of Time. S. REED, D. LOWRY, J. RAMIREZ*, K. ESQUIBEL, S. REMY, K. AKAL, A. SOTIROS, M. KUMOR, L. SCHOENFELD, M. TRUJILLO-LEMON, and C. BRACHO-TROCONIS (*Septodont, Colorado Research Center, Louisville, USA*)
- 1028** New Provisional Restorative Containing Resins with no Bisphenol A Components. N. ARALIS* and C. ANGELETAKIS (*Danville Materials, San Ramon, CA, USA*)
- 1029** Thermal degradation of universal composite resins. H. TANAKA*, M. NAKAYAMA, K. IKUSHIMA, T. KUMAGAI, and T. SAKUMA (*GC Corporation, Tokyo, Japan*)
- S1030** Amorphous Calcium Phosphate-Resin Nanocomposite: Thermal-Cycling, Three-Body Wear, and Two-Year Water-Aging. J.L. MOREAU, M.D. WEIR, K. ZHANG*, A. GIUSEPPETI, L. CHOW, J. ANTONUCCI, and H.H.K. XU (*University of Maryland Dental School, Baltimore, USA*)
- 1031** Stiffness Measurement of Universal Composites. X. HUO* and V. TORRES (*DENTSPLY, Milford, DE, USA*)
- 1032** Mechanical Properties of Novel Experimental BPA-Free Composites. H. LU*, X. JIN, D. REID, and B. KOLTISKO (*DENTSPLY International, Milford, DE, USA*)
- S1033** Hydroxyapatite Effect on Photopolymerization of Self-etching Adhesives with Different Aggressiveness. Y. ZHANG* and Y. WANG (*University of Missouri – Kansas City, Kansas city, USA*)
- 1034** A Novel Antimicrobial Orthodontic Band Cement. K. WHANG*, D. MOREIRA, J. OEI, H.R. RAWLS, J. WAGNER, and C. CHRISTENSEN (*University of Texas at San Antonio, USA*)
- 1034.1** Rheological Behavior Of A New Restorative Material. E. NGUYEN, U. DRECHSLER*, and D. TOBIA (*Kerr Corporation, Orange, CA, USA*)
- S1035** Tooth Micro-hardness Changes After Applying Bioactive Glass-containing, Anti-microbial Sealants. V. URSU*, S. HAYS, S. SALEHI, M. MELANSON, M. WANG, W. ANHORN, W. MARRA, C. MARTELL, J. ENGLE, J. FERRACANE, and J. MITCHELL (*Oregon Health & Science University, Portland, USA*)

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Poster Session, East Hall

Dental Materials: Metal-based Materials

- 1036** Change of Loadings Delivered by Segmental T-Loops for Canine Retraction. Z. XIA, J. CHEN*, S. LIU, F. JIANG, and R. VIECILLI (*Indiana University Purdue University Indianapolis, USA*)
- S1037** Electrochemical and Corrosion Properties of Ion-Implanted Orthodontic Wires. S. ZASTROW* and C. APARICIO (*University of Minnesota, Minneapolis, USA*)
- 1038** Corrosion Properties of Contemporary Nickel-Titanium Endodontic Files. D. BERZINS*, A. BARNES, and N. VASSILIADES (*Marquette University, Milwaukee, WI, USA*)
- 1039** Retentive Strength of Metal Copings on Abutments using Castor-Oil Polyurethane. L. PINELLI*, L. FAIS, J.M. REIS, and F. MOLLO JUNIOR (*Universidade Est. Paulista Julio Mesquita, Araraquara, Brazil*)
- S1040** Effect of Sterilization on Stability of Anodized and Non-Anodized Mini-Screws. S. AKYALCIN, J.D. ENGLISH, A. LEDINGHAM*, and H. MCIVER (*University of Texas – Houston/Health Science Center, Katy, USA*)

- S1041** Hardness And Microstructure Of Nickel-Titanium Endodontic Instruments. E. NINAN*, A. ZAPF, and D. BERZINS (*Marquette University, Milwaukee, WI, USA*)
- S1042** Comparison Between Preformed Archwires and Dental Arch Forms. J. GILBERT*, S. ODA, and L. WILL (*Boston University, MA, USA*)

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Poster Session, East Hall

Dental Materials: Other Materials – Chemistry, Properties and Performance – Dental Materials – Resin-based Composites and Glass Ionomers

- S1043** Comparative Evaluation of Four Composite Materials for Their Radiographic Densities. V. PATEL*, B. GODDER, B. PENUGONDA, A. PATEL, and J. SILVER (*New York University, USA*)
- 1044** Does Coating Reduce Water Absorption in Glass-Ionomer Restorations?. A.D. HINDSMAN*, R.H. HATCH, B.J. BLEN, D. TANTBIROJN, and A. VERSLUIS (*University of Tennessee Health Science Center, Memphis, USA*)
- 1045** Resin-Coated Glass Ionomer Cement Abrasion and Wear Resistance. A. ALJAMHAN, J.A. PLATT*, N.B. COOK, M. COCHRAN, B. MATIS, and A. FERREIRA ZANDONA (*Indiana University, Indianapolis, USA*)
- 1046** Roughness and microhardness of a silorane-based composite resin. G. BASSO, V.C. RUSCHEL, H.P. MAIA, and M.A.C. DE ANDRADA* (*Universidade Federal De Sant Caterina, Florianópolis, Brazil*)
- 1047** Inorganic and Prepolymerized Filler Analysis of Four Composite Resins. D. SALAZAR*, P. YAMAN, and J. DENNISON (*University of Michigan, Ann Arbor, USA*)
- 1048** Influence of a Nanofilled Coating on Physical Properties of Glassionomercements. U. LOHBAUER* and A. PETSCHLT (*University of Erlangen, Germany*)

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Poster Session, East Hall

Dental Materials: Color and Appearance (Esthetics) – Color and Appearance II

- 1049** Extrinsic Stain Clinical Trial Comparing H₂O₂ Rinse and Whitening Dentifrice. M.J. DOYLE*, R. CHENG, J.J. WITT, R. GERLACH, and L. FRIESEN (*Procter & Gamble Company, Mason, OH, USA*)
- 1050** In-vitro Whitening Efficacy and Design of a New Peroxide Dentifrice. S. CHOPRA*, V. MALONEY, D. ONTUMI, and P. MANDADI (*Colgate-Palmolive Company, Piscataway, NJ, USA*)
- 1051** In-Vitro Whitening Efficacy of Peroxide Dentifrices. V. MALONEY*, D. ONTUMI, and S. CHOPRA (*Colgate-Palmolive, Piscataway, NJ, USA*)
- 1052** In-Vitro Whitening Efficacy of Peroxide Dentifrice vs. Silica Whitening Toothpaste. D. ONTUMI*, V. MALONEY, and S. CHOPRA (*Colgate Palmolive, Easton, PA, USA*)
- S1053** Effects of Whitening Strips on the Enamel Microhardness. C. CHUNG*, K. DEELEY, and A. VIEIRA (*University of Pittsburgh, PA, USA*)
- S1054** Effects of Cement and Cores on Color of Lithium Disilicate. Y.-H. NIU, R. DOUGLAS, and R. WARD* (*Southern Illinois University, Alton, USA*)

- S1055** Color Stability Before and After In-Office Bleaching: Pilot Study. N. RESTREPO-KENNEDY*, M. VARGAS, D. COBB, M. HERNANDEZ, J.L. KOLKER, and F. QIAN (*University of Iowa, Iowa City, USA*)
- S1056** Effect of Multiple NaF Varnish Applications on Five Different Restoratives. H. SARTAIN*, S. MAGEE, D.M. HUTTO, T. DUNCAN, and A. PUCKETT (*University of Mississippi Medical Center, Jackson, USA*)
- 1057** Influence of Simulated Pulpal Pressure in Efficacy of Bleaching Gels. A. BORGES*, G. BATISTA, P.T. ARANTES, A. WIEGAND, T. ATTIN, and C. TORRES (*UNESP – Sao Paulo State University, Sao Jose dos Campos – SP, Brazil*)
- 1058** Kinetics of 10% Hydrogen Peroxide 2-hour Whitening Strips. P.A. SAGEL*, S. FARRELL, B. PUMA, M.K. ANASTASIA, S.K. FIEDLER, and C.S. RALSTON (*Procter & Gamble Company, Mason, OH, USA*)
- 1059** Effect of Prophylactic Pastes on Ceramic Surface Roughness. A.R. YAZICI*, D. ANTONSON, M. CAMPILLO, S. ANTONSON, E. KARAMAN, and C. MUNOZ-VIVEROS (*Hacettepe University, Ankara, Turkey*)
- 1060** Color Stability Behavior of Resin-Composites polymerized with QTH and LED. K. LAWSON*, C. NAVARRA, and C. SABATINI (*State University of New York – Buffalo, USA*)
- 1061** Accelerated Aging Dependent Changes In Color Of Resin Composites. Y. KORKMAZ CEYLAN, J. ONTIVEROS*, J. POWERS, and R. PARAVINA (*University of Texas – Houston/Health Science Center, USA*)
- S1062** Correlation of Two Shade Guides for Evaluating tooth Bleaching Efficacy. H. SUN*, F. WANG, Y. ZHAO, and Y. LI (*The 4th Military Medical University, Xi'An, China*)
- 1063** Comparative Whitening Efficacy of 2-hour Strips and Professional Laser Treatment. J. SIMON*, A. BRAXTON, L. GEORGE, N. WILSON, R.W. GERLACH, S. FARRELL, M.K. ANASTASIA, M.E. DECOURSEY, T. NEUFARTH, and E. CONDE (*University of Tennessee, Memphis, USA*)

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Poster Session, East Hall

Behavioral, Epidemiologic, and Health Services Research – Behavioral, Epidemiologic, and Health Services Research V

- 1064** Caregivers perception and knowledge of Oral Health for Special Needs. F. SALAMA*, C. UCHIDA, B. ROEBER, and A. KEBRIAEI (*King Saud University, College of Dentistry, Omaha, NE, USA*)
- S1065** What Do People Tweet About: Odontalgia, Backaches, Earaches, and Headaches. K. AHLWARDT*, J. GIBBS, J. PAGE, N. HEAVILIN, J. TSOH, and B. GERBERT (*University of California – San Francisco, USA*)
- S1066** Differences Between Volunteer and Non-Volunteer Dentists in Northeastern Indiana. T. KIMMEL*, K.M. YODER, and G.J. ECKERT (*Indiana University, Indianapolis, USA*)
- 1067** Attitudes of Illinois' Pediatric Dentists toward Parental Presence in Operatory. J. CABALLERO, S. FADAVI, A. KOERBER, and R. VERGOTINE* (*University of Illinois – Chicago, USA*)
- 1068** Association of TMJ, Knee Pain and Quality-of-Life (QoL): Osteoarthritis-Initiative Study. A. CHATTOPADHYAY*, A. ADAMS, and I. GARCIA (*NIH/NIDCR, Bethesda, MD, USA*)

- 1069** Dental wear in primary and permanent teeth, in Brazilian children. A. SALES-PERES*, A. DE CARVALHO SALES-PERES, J. MARSICANO, P. MOURA-GREC, M. MAPENGO, and S. SALES-PERES (*University of São Paulo, Bauru, Brazil*)
- 1070** Edentulism and nutritional status of institutionalized elderly in Bauru, Brazil. J. BASTOS*, F. CARVALHO, A. XAVIER, H. MENDES, S. SALES-PERES, R. BASTOS, and M. CALDANA (*Faculdade de Odontologia de Bauru – FOB/USP, Bauru – SP, Brazil*)
- S1071** Longitudinal Changes in Dental Esthetic Perceptions of Adolescents and Parents. G. KAVAND*, B. BROFFITT, S.M. LEVY, and J.J. WARREN (*University of Iowa, Iowa City, USA*)
- S1072** Survey of Retention Practices used by Northwest PRECEDENT Orthodontists. R. CAPOTE*, G. KING, H. PASHOVA, and Northwest PRECEDENT (*University of Washington, Seattle, USA*)
- S1073** Dental Therapy and Improved Glycemic Control in an Urban Free-Clinic. R. LUGO*, R. SENTHAMARAI KANNAN, D. KRITZ-SILVERSTEIN, and G. TAYLOR (*University of Michigan, Ann Arbor, USA*)
- S1074** Periodontal disease and diabetes in institutionalized elderly, Bauru, Brazil. A. FIGUEIREDO*, A. XAVIER, F.S. CARVALHO, H.J. MENDES, R. BASTOS, M. CALDANA, and J.R. BASTOS (*University of São Paulo, Bauru Dental School, Brazil*)
- 1075** Impact of Oral Health Education on Study Participants and Families. L. ARCHILA*, G.T. TEREZHALMY, A.R. BIESBROCK, T. HE, and M. BARKER (*University of Texas at San Antonio, USA*)
- 1076** Identifying oral health needs of young children with special needs. C. HUEBNER*, A. REEVES, K. LY, S. YAMAMOTO, and P. MILGROM (*University of Washington, Seattle, USA*)
- 1077** Effect of Music on Patient Experience during Root Canal Treatment. J. WISNIEWSKI*, F. MURPHY, III, K. WISNIEWSKI, and A. BARTOLUCCI (*University of Alabama, Birmingham, USA*)

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Poster Session, East Hall

**Cariology Research – Fluoride and Ca-based Products –
Cariology: Fluoride and Ca-based Products I**

- 1078** Argon Laser and Remineralizing Paste/Dentifrice: *In Vitro* Enamel Caries. G. WESTERMAN*, J. HICKS, C. FLAITSZ, A. DYER, and G. POWELL (*Creighton University, Omaha, NE, USA*)
- 1079** Effect of Selected Fluoride Products on White Spot Lesions Remineralization. A. MIELCZAREK* (*Medical University of Warsaw, Poland*)
- 1080** Hydroxyapatite nanoparticles/fluoride pastes: effect on the dental demineralization *in vitro*. A.C. MAGALHÃES*, B.M. SOUZA, L.F. GRACINDO, L.P. COMAR, and M.A.R. BUZALAF (*Bauru School of Dentistry – University of São Paulo, Bauru, SP, Brazil*)
- 1081** Fluoride Availability of Professional Products with 5000 ppm F-. A. MORGAN*, M. JOZIAK, and M. PRENCIPE (*Colgate-Palmolive Company, Piscataway, NJ, USA*)
- S1082** Assessing Dentin Tubule Occlusion by Desensitizing Toothpaste: A Methodology Study. B. AMAECHI, S.M. MATHEWS*, and K. RAMALINGAM (*University of Texas Health Science Center at San Antonio, USA*)

- S1083** Role of Fluoridated Dentifrices in *In Vitro* Root Caries Formation. J. WU*, J. HICKS, C. FLAITSZ, and F. GARCIA-GODOY (*University of Texas – Houston/Health Science Center, USA*)
- 1084** Analysis of 1-minute Bioavailable Fluoride from Dentifrice. E. HOLAHAN*, B. SCHMUCK, and C. CAREY (*ADA Foundation, Gaithersburg, MD, USA*)
- 1085** Enamel Fluoride Uptake from a New Children's Dentifrice. B. SCHEMEHORN*, G. WOOD, and G. STOOKEY (*Therametric Technologies, Inc, Noblesville, IN, USA*)
- 1086** Fluoride Content of Commercially Available Infant Foods. E. MARTINEZ-MIER*, J. STEELE, A. SOTO-ROJAS, C. BUCKLEY, and P. CHANDRAPPA (*Indiana University School of Dentistry, Indianapolis, USA*)
- 1087** Changes in the Salivary Fluoride Concentration after Adding Low-concentrated Fluoride. T. IWASAKI* and Y. UCHIKAWA (*Nippon Dental University Hospital, Tokyo, Japan*)
- S1088** Influence of Dentifrice Fluoride Concentrations and pH on Toenails Fluoride. C. CARDOSO*, F. VILHENA, K. OLYMPIO, D. MANGUEIRA, F. SAMPAIO, and M.A.R. BUZALAF (*Bauru School of Dentistry – University of São Paulo, Brazil*)
- 1089** Topical Fluoride Use and Oral Health for Children in China. Y. SI*, M. LIU, S.G. ZHENG, and T. XU (*Peking Univeristy School and Hospital of Stomatology, Beijing, China*)
- S1090** Evaluation of Caries-Affected Primary-Teeth Restored with Crowns Cemented with GIC. L. PINZON*, C. ORME, S.F. HABELITZ, and G. MARSHALL (*University of California – San Francisco, USA*)
- 1091** Phosphate Ion Release From Ion-permeable Microcapsules In Varnish Formulations. M. LATTI*, S. GROSS, T. GREVING, M. FALBO, P. ELASSAL, and W. MCHALE (*Creighton University, Omaha, NE, USA*)
- S1092** Calcium Fluoride and Phosphate Ion Release From Varnish Formulations. M. FALBO*, M. LATTI, S. GROSS, T. GREVING, P. ELASSAL, and W. MCHALE (*Creighton University, Omaha, NE, USA*)
- 1093** *In Vitro* Evaluation of F-Release and Deposition for F-Varnishes. C. CAREY*, E. HOLAHAN, and G. FLAIM (*ADA Foundation, Gaithersburg, MD, USA*)
- 1094** Fluoride Release from Fluoride Varnishes is Affected by Incubation Conditions. C. GONZALEZ-CABEZAS, S. FLANNAGAN*, R. KRELL, M. UEKIHARA, and C. NIQUETTE (*University of Michigan, Ann Arbor, USA*)
- S1095** Does Fluoride Gel/Foam Application Time affect Enamel Demineralization?. L. GARRETT*, A.D. BRAXTON, D. TANTBIROJN, and A. VERSLUIS (*University of Tennessee, Memphis, USA*)

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Poster Session, East Hall

Mineralized Tissue – Dentin Formation and Pathology

- S1096** Erosion Of Dentin Resulting From Cyclic Stress And pH Challenges. S. ORREGO* and D. AROLA (*University of Maryland at Baltimore, USA*)
- 1097** Trps1 Represses Mineralization through Regulation of Phosphate Homeostasis Genes. L. STEVENSON*, C. MOBLEY, T. WINTERS, T. BERTIN, A. POLIARD, O. KELLERMANN, B. LEE, and D. NAPIERALA (*University of Alabama, Birmingham, USA*)

- S1098** Fatigue Behavior of Coronal Dentin after Bur Preparation. H. MAJD*, E. ROMBERG, and D. AROLA (University of Maryland – Baltimore County, USA)
- S1099** Drug Delivery from Space-Making Calcium Sulfate/Poly(-amino ester) Hydrogel Composites. B. ORELLANA*, M. THOMAS, J. HILT, and D. PULEO (University of Kentucky, Lexington, USA)
- 1100** Expression of Pleiotrophin and receptor PTP b/z/Phosphacan in odontoblasts. A. TAMKENATH*, J. AMES, O. MAMAEVA, K. STIDHAM, P. PINERAS, T. DEUEL, M. MACDOUGAL, and H. ERLANDSEN (University of Alabama, Birmingham, USA)
- 1101** Dose and time effects of genipin on dentin collagen. H. NAGAOKA*, H. NAGAOKA, M. TERAJIMA, L. BOUSHELL, and M. YAMAUCHI (University of North Carolina, Durham, USA)
- S1102** Generation and Characterization of DSPP-Cerulean/DMP1-Cherry reporter mice. S. GHASSEM-ZADEH*, B. RODGERS, Y. FU, X. JIANG, K. SAGOMONYANTS, M. FROZONI, P. MAYE, and M. MINA (University of Connecticut, Farmington, USA)
- 1103** DSP-PP Precursor Protein Cleavage by Tolloid-related-1 and Bone Morphogenetic Protein-1. H. RITCHIE*, C. YEE, X.-N. TANG, and R. FULLER (University of Michigan, Ann Arbor, USA)
- 1104** Zymograms of wild type DSP-PP₂₄₀ and mutated recombinant precursor proteins. C. YEE*, R. FULLER, and H. RITCHIE (University of Michigan, Ann Arbor, USA)
- 1105** Role of NH₂-terminal Fragment of Dentin Sialophosphoprotein (DSPP) in Dentinogenesis. M. PRASAD, Q. ZHU, Q. LIU, J.Q. FENG, and C. QIN* (Baylor College of Dentistry, Dallas, TX, USA)
- S1106** Interaction of a Desensitizing Paste with Etched Dentin. N. SARKAR and A. GUPTA* (LSUHSC School of Dentistry, New Orleans, LA, USA)
- S1107** Physical Properties of the Dentin of Deciduous and Permanent Teeth. C. TORRES*, J. GOMES-SILVA, M.A. MENEZES-OLIVEIRA, L. PARDINI, R. PALMA-DIBB, and M.C. BORSATTO (Faculdade de Odontologia de Ribeirão Preto-University of Sao Paulo, Brazil)
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- Seq#: 147 Friday, 23 March 2012, 3:30 p.m. – 4:45 p.m.**
Poster Session, East Hall
- Salivary Research – Salivary Gland Structure and Function**
- S1108** Horse latherin, related to salivary hPSP, lacks antimicrobial activity. J. SONG*, B. HAIGH, T. WHEELER, and S.-U. GORR (University of Minnesota School of Dentistry, Minneapolis, USA)
- 1109** The Effect of PMMA/Hydroxyapatite Adsorbed Salivary Proteins on *C. albicans*. D. VUKOSAVLJEVIC*, W. CUSTODIO, A.A. CURY, and W.L. SIQUEIRA (University of Western Ontario, London, Canada)
- S1110** Effect of Propolis-Based Antimicrobial on Oral Bacteria. T. STUART* (University of Tennessee, Memphis, USA)
- 1111** Genetic Specimen Collection in an Ongoing Infant Longitudinal Study. A. MALIK*, A. FERRANTI, R. ASAAD, S. MIADICH, K. LANG, M. HEIMA, J. GERSTENMAIER, A. TAYLOR, G. FERRETTI, R. JUREVIC, and S. NELSON (Case Western Reserve University, Cleveland, OH, USA)
- 1112** Functionalizing PLGA Nanofiber Scaffolds to Regulate Salivary Gland Cell Behavior. S. CANTARA*, R. JEAN-GILLES, S. SEQUEIRA, D. SOSCIA, J. CASTRACANE, and M. LARSEN (University at Albany, SUNY, NY, USA)

- S1113** Hippo Pathway in Submandibular Gland Development: Potential Interplay with N-glycosylation. R. ENGLISH, III*, M. BOUCHIE, and M. KUKURUZINSKA (Boston University, MA, USA)
- S1114** Proteome of Human Acquired Enamel Pellicle on Deciduous Teeth. J. ZIMMERMAN*, Y. XIAO, S. HATIBOVIC-KOFMAN, and W.L. SIQUEIRA (University of Western Ontario, London, Canada)
- 1115** Distribution Of Actin-filament And $\alpha 1/3$ -integrin During Rat Submandibular Gland Regeneration. H. SHIRATSUCHI*, O. SHIMIZU, T. SAITO, T. MASHIMO, and Y. YONEHARA (Nihon University Graduate School of Dentistry, Chiyoda-ku Tokyo, Japan)
- S1116** Combination of Fibrin Hydrogels and Matrigel Enhance Par-C10 Acinar Differentiation. K. MANZELLA*, P. LEI, S. ANDREADIS, and O. BAKER (State University of New York – Buffalo, USA)
- S1117** Efficacy of Salivary Antimicrobial Peptide Histatin-5 Against Experimental Denture Stomatitis. W. HACKETT*, P. FIDEL, and M.A. JABRA-RIZK (University of Maryland, Linthicum, USA)
- 1118** Viral Gene Transfer to Developing Mouse Salivary Glands. J. HSU*, G. DIPASQUALE, J.S. HARUNAGA, T. ONODERA, M.P. HOFFMAN, J.A. CHIORINI, and K.M. YAMADA (National Institutes of Health, Bethesda, MD, USA)

Seq#: 148 Friday, 23 March 2012, 3:30 p.m. – 4:45 p.m.
Poster Session, East Hall

Microbiology / Immunology – Mechanisms of Periodontal Pathogens

- S1119** Identification of Oral Taxa from Rare Phyla/Candidate Divisions. A. CAMANOCHA* and F. DEWHIRST (Harvard University, Boston, MA, USA)
- 1120** The Human Oral Microbiome: A Status Report. J. BLANTON*, A. KIREGA, L. YANG, T. CHEN, C. LEONETTI, A. TANNER, W. WADE, B. PASTER, F. DEWHIRST, and J. IZARD (Forsyth Institute, Cambridge, MA, USA)
- S1121** PGRP-S role in Jurkat apoptosis induced by *Fusobacterium nucleatum*. K. EVANS*, M. RAPOZO-HILO, Y. RAVANDOUST, D. FRASER, C. HOOVER, and T. HUYNH (University of California – San Francisco, USA)
- S1122** PG0242 and the Cobalamin Biosynthesis Pathway in *Porphyromonas gingivalis*. A. BARRETT*, P. RODRIGUES, M. BELANGER, D. AKIN, W. DUNN JR, and A. PROGULSKE-FOX (University of Florida, Gainesville, USA)
- 1123** *Fusobacterium nucleatum* autoaggregation as a mechanism of -lactam antibiotic resistance. C. DE FONTNOUVELLE*, L. MARTIN, and R. TELES (The Forsyth Institute, Cambridge, MA, USA)
- 1124** Miconazole Activity Against *Candida* Biofilms on Acrylic Discs. B. DOROCKA-BOBKOWSKA, S. GEBREMEDHIN, N. DÜZGÜNES, A. SZUMALA-KAKOL, and K. KONOPKA* (University of the Pacific, San Francisco, CA, USA)
- S1125** *Caenorhabditis elegans* as Potential Virulence Model for *Aggregatibacter actinomycetemcomitans* Infections. V. DAHYA*, A. PROGULSKE-FOX, and J. MANS (University of Florida, Gainesville, USA)
- S1126** Producing a pMHCII tetramer to detect *Porphyromonas gingivalis*-specific CD4⁺ T-cells. P. BITTNER-EDDY, M. YU*, and M. COSTALONGA (University of Minnesota, Minneapolis, USA)

- S1127** Effects of PSP-Derived Antimicrobial Peptides on *Enterococcus faecalis* Conjugation. A. KROKE*, S.-U. GORR, and H. HIRT (*University of Minnesota School of Dentistry, Minneapolis, USA*)
- S1128** Cranberry Fraction Induced Alteration of Periodontal Pathogen Lipopolysaccharide Functions. V. SANGHA*, D. TIPTON, and J. BABU (*University of Tennessee, Memphis, USA*)
- S1129** Correlation between endotoxins and periapical periodontitis. A.C. XAVIER*, A. CHUNG, C.A. CARVALHO, L. OLIVEIRA, M.C. VALERA, A.O. JORGE, and L.E. MAEKAWA (*Universidade Est. Paulista Julio Mesquita, Sao Jose dos Campos, Brazil*)
- 1130** Click scaffolds for inhibition of *P. gingivalis* biofilm formation. C. LONER*, F. LUZZIO, and D. DEMUTH (*University of Louisville, KY, USA*)

Seq#: 149 Friday, 23 March 2012, 3:30 p.m. – 4:45 p.m.
Poster Session, East Hall

Oral & Maxillofacial Surgery – Oral & Maxillofacial Surgery III

- S1131** Epidemiological Estimates Of Outcomes In Patients Undergoing Orthognathic Surgeries. S. VENUGOPALAN*, K. TURKISTANI, and V. ALLAREDDY (*Harvard University, Boston, MA, USA*)
- 1132** Pathologic bone demineralization by V-ATPase in ameloblastoma cells. H. MORITA* and K. ABE (*Kyushu University Hospital, Fukuoka, Japan*)
- S1133** Risk Factors of Titanium Removal in Orthognathic Surgery. L. HU* (*Tufts University, Boston, MA, USA*)
- S1134** Double-flap Technique For Flap Advancement: Case Series. Y. OGATA*, Y. HUR, and T. GRIFFIN (*Tufts University School of Dental Medicine, Boston, MA, USA*)
- S1135** Characterization of Human Bone Marrow Stromal Cells During Multi-passaging. A. NGUYEN*, W. YU, and J. LEE (*University of California – San Francisco, Gilbert, AZ, USA*)
- 1136** Post-extraction Bleeding: Predictive Value of INR vs Bleeding History. E. SZABO*, S. CHAND, Y. ERPARDO, C. FOONG, M. GLEASON, N. KASHANI, M. O'REGAN, H. PEREZ, and S. LONG (*University of Detroit Mercy, MI, USA*)
- S1137** Three-dimensional Morphometric Analysis Following Facial Reconstructive Surgery. C. GUERISOLI*, L. LEE, S. BEKMEZIAN, J.-R. HONG, J. HUANG, and J. LEE (*University of California – San Francisco, USA*)

Seq#: 150 Friday, 23 March 2012, 3:30 p.m. – 4:45 p.m.
Poster Session, East Hall

Periodontal Research – Therapy – Bone and Soft-tissue Healing/Devices to Enhance Mechanical Debridement

- 1138** Outcomes of Scaling/Root Planing With and Without Perioscope™ Technology. C. BLUE*, J. OSBORN, S. LUNOS, and P. LENTON (*University of Minnesota, Minneapolis, USA*)
- 1139** Survival of PDL Cells in Different Storage Medias and times. S. SHAHRABI FARAHANI, A. NAVABAZAM, A. MOMEN, H. GHASEMPOUR, and M.M. IMANI EMADI* (*Soheil Dentistry and Dental Implant Center, Tehran, Iran*)
- S1140** Bone healing with Low-Level Laser Therapy. N. CAMPOS*, M.J. NAGATA, M. MESSORA, N. POLA, S. FUCINI, C. SANTINONI, A. BOSCO, and V. GARCIA (*Univ. Estadual Paulista – UNESP, Araçatuba-SP, Brazil*)
- S1141** Modified Periosteal Fenestration (MPF) Technique for Flap Advancement. Y. HUR*, Y. OGATA, A. KO, and T. GRIFFIN (*Tufts University School of Dental Medicine, Boston, MA, USA*)
- 1142** Root Coverage Procedures in HIV Positive Populations: A Case Series. L. SMITH*, S. KOLHATKAR, S. SANCHEZ, and M. BHOLA (*University of Detroit Mercy, MI, USA*)
- 1143** Ectonucleotide Pyrophosphatase/Phosphodiesterase (NPP)1-3 May Regulate Periodontal Homeostasis. F. NOCITI*, A. TRAN, J. MILLAN, M. SOMERMAN, and B. FOSTER (*National Institute of Health/National Institute of Arthritis and Musculoskeletal and Skin Diseases, Bethesda, MD, USA*)
- S1144** Clinical And Histological Evaluation Of Two Techniques In Ridge Preservation. C. PEREZ*, M. FINKELMAN, Y. HUR, N. JEONG, and T. GRIFFIN (*Tufts University School of Dental Medicine, Boston, MA, USA*)
- 1145** Freeze Dried Allograft Versus Anorganic Bone Xenograft For Site Preservation. L.-F. CHEN*, W. CHEUNG, Y. HUR, and T. GRIFFIN (*Tufts University School of Dental Medicine, Boston, MA, USA*)
- S1146** Comparison of Tooth Structure Removed with Curette and Ultrasonics. A. MOORE, C. HARRIS, L. HARRIS*, and S. POLLOCK (*University of Mississippi Medical Center, Jackson, USA*)
- 1147** 6-month Multi-clinic Treatment of Periodontal Disease Using Topical Oxidizing Agents. C. MITCHELL*, D. KELLER, L. WEAKS, and B.J. SINDELAR (*Ohio University, Athens, USA*)
- S1148** Converting Tissue Biotype Using Acellular Dermal Matrix And Allograft. H. TENZER*, Y. HUR, L.-F. CHEN, and T. GRIFFIN (*Tufts University School of Dental Medicine, Boston, MA, USA*)
- 1149** Bone healing: PRP from peripheral blood or bone marrow aspirate. S. FUCINI*, M.J. NAGATA, M. MESSORA, N. CAMPOS, N. POLA, C. SANTINONI, E. ERVOLINO, A. BOSCO, and V. GARCIA (*Private Practice, Hanover, NH, USA*)
- 1150** Peripheral blood or bone marrow PRP: effect on fenestration defects. M.J. NAGATA*, M. MESSORA, N. POLA, N. CAMPOS, C. SANTINONI, E. ERVOLINO, S. FUCINI, A. BOSCO, and V. GARCIA (*Univ. Estadual Paulista – UNESP, Araçatuba-SP, Brazil*)
- 1151** Effectiveness of Root Planing with Diode Laser Curettage for Periodontitis. J. ZINGALE, L. HARPENAU*, D. CHAMBERS, and W. LUNDERGAN (*University of the Pacific, San Francisco, CA, USA*)

Craniofacial Biology – Cell Biology, Tissue Engineering, and Wound Healing

S1152 Ephrin-B Reverse Signaling for Palatal EMT Requires Contact. M. GREWAL*, S. WOJCIECHOWSKI, F. MOHAMED, A. SACHAR, M.J. SERRANO, M.D. BENSON, and K. SVOBODA (*Baylor College of Dentistry, Dallas, TX, USA*)

S1153 Biophysical investigations of Msx1/Pbx1 interactions with Msx1 distal enhancer region. H. ERLANDSEN*, J. AMES, and P. JEZEWSKI (*University of Alabama at Birmingham, USA*)

S1154 Role of GTPases in Invadopodia-mediated Invasion of Extracellular Matrices. X. HAN*, V. ARTYM, and K. YAMADA (*University of Minnesota, Minneapolis, USA*)

S1155 MKP-1 Deficiency Alters Osteoclastogenic Potential in Hematopoietic Progenitor Populations. M. VALERIO* and K. KIRKWOOD (*Medical University of South Carolina, Charleston, USA*)

S1156 Characteristics of Dental Follicle Stem Cells (DFSCs) at Elevated Temperatures. M. REZAI RAD*, G. WISE, and S. YAO (*Louisiana State University, Baton Rouge, USA*)

S1157 Effect of Ultrasound on Healing of Dentoalveolar Fracture ex-vivo. G. HERGET*, H. DHALIWAL, N. FELEMBAN, A. HABIB, A. SLOAN, and T. EL-BIALY (*University of Alberta, Edmonton, Canada*)

S1158 Irradiation Effect on Osteoblast and Osteoclast *in vitro* with Metalloporphyrin. M. LU*, J. HONG, A. HERFORD, X. LUO-OWEN, and D. GRIDLEY (*Loma Linda University, CA, USA*)

S1159 Pitx2 Enhances the Fusion of Myogenic Cells in Extraocular Muscle. S. HEBERT* and L. MCLOON (*University of Minnesota, Minneapolis, USA*)

S1160 PDL Fibroblast Attachment to Fibronectin Increases Resistance to Cigarette Smoke. M. BRADY*, Z. BULMANSKI, D. STOUTE, and T. LALLIER (*Louisiana State University, New Orleans, USA*)

S1161 Osteoblasts Adhesion, Migration and Differentiation on 3D Nanofibrous Gelatin Scaffolds. A. SACHAR*, A. STROM, M.J. SERRANO, X. LIU, and K. SVOBODA (*Baylor College of Dentistry, Dallas, TX, USA*)

S1162 Effect of Retinoic Acid on Osteogenesis of Umbilical-Cord Stem Cells. S. MCCARTHY, U. KANDALAM, S. CHERY*, C.Y. HUANG, and E.J. STELNICKI (*Nova Southeastern University, Fort Lauderdale, FL, USA*)

S1163 Immunomodulation of Growth Factor Microenvironment Activates Bone Healing. M. FREIRE*, A. NGUYEN, J.-K. KOOK, and H. ZADEH (*University of Southern California, Los Angeles, USA*)

S1164 Evaluation of Scaffolds Functionalized with Anti-BMP-2 Antibody in Promoting AMOR. S. ANSARI*, M. FREIRE, E.-K. PANG, A. BAKHAJ, A. MOSHAVERINIA, and H. ZADEH (*University of Southern California, Los Angeles, USA*)

S1165 Improved Tissue Culture Conditions for Engineered Skeletal Muscle Sheets. S. HINDS*, N. TYHOVYCH, and L. TERRACIO (*New York University, USA*)

S1166 Vein graft with fat tissue/laser application in peripheral nerve regeneration. R.L. BUCHAIM*, G.M. ROSA-JUNIOR, J.C. ANDREO, L.H.R. MORAES, D.V. DIAS, L.R. DARÉ, D.V. BUCHAIM, C. ROSA, F.V. OLIVEIRA NETO, and A.C. RODRIGUES (*Bauru School of Dentistry – University of São Paulo, Brazil*)

POSTER CHAIR LISTING

FRIDAY, MARCH 23, 2012

Poster Sessions: 2 p.m. – 3:15 p.m.

Session #	Group	Poster #	Poster Chair
119	PB	772 – 779	Mohamed Ayad
120	DM	780 – 800	
121	DM	801 – 808	Michael Bagby
122	DM	809 – 825	
123	DM	826 – 838	Thomas Klettke
124	DM	839 – 852	Chutima
125	DM	853 – 867	Asavapanumas
126	BEHSR	868 – 882	Khadijah Turkistani
127	EDUC	883 – 895	Veerasathpurush
128	DAR	896	Allareddy
129	OHR	897 – 907	Annahita Ghassemi
130	MT	908 – 919	
131	M/I	920 – 937	Sean S. Lee
132	OMP	938 – 950	Tarek El-Bialy
133	CRAN	951 – 968	

Poster Sessions: 3:30 p.m. – 4:45 p.m.

Session #	Group	Poster #	Poster Chair
135	EBD	974 – 975	Howard Hamerink
136	NPBR	976 – 979	
137	PROS	980 – 993	
138	DM	994 – 1008	Eric Levine
139	DM	1009 – 1022	
140	DM	1023 – 1035	Isabel Ferreto
141	DM	1036 – 1042	
142	DM	1043 – 1048	Abdulaziz Abu-Melha
143	DM	1049 – 1063	
144	BEHSR	1064 – 1077	Uvoh Onoriobe
145	CAR	1078 – 1095	Daniela Rios
146	MT	1096 – 1107	
147	SAL	1108 – 1118	Sompop Bencharit
148	M/I	1119 – 1130	Masayasu Ito
149	OMS	1131 – 1137	
150	PERIO	1138 – 1151	Steven Engebretson
151	CRAN	1152 – 1166	

NOTE: * = Presenting Author
S prior to the presentation number indicates Student Presenter

All scientific sessions are located at the Tampa Convention Center.

Seq#: 152 Saturday, 24 March 2012, 8 a.m. – 9:30 a.m.
Symposium, Room 13

Symposium – Metabolomics: Its Use to Study Oral Disease and Beyond

- 1167** 8 a.m. Untargeted Global Metabolomics Platform. J. RYALS* (*Metabolon, Durham, NC, USA*)
8:20 a.m. Application of Metabolomics in Genome Wide Association Study (GWAS). M. MILLBURN* (*Metabolon, Durham, NC, USA*)
8:40 a.m. The Use of Metabolomics in Oral Care Clinical Research. V. BARNES* (*Colgate-Palmolive Company, Piscataway, NJ, USA*)
9 a.m. Discussion.

Seq#: 153 Saturday, 24 March 2012, 8 a.m. – 9:30 a.m.
Symposium, Room 9

Symposium – Periodontal/Peri-implant Wound Healing Research — Current Trends

Chairpersons: H. Hasturk and W. Giannobile

- 1168** 8 a.m. Interactions of Enamel Matrix Derivative and Biomechanical Loading in Periodontal Regenerative Healing. J. DESCHNER* (*University of Bonn, Germany*)
8:20 a.m. Animal Models to Study Early Regeneration Outcome. H. HASTURK* (*The Forsyth Institute, Cambridge, MA, USA*)
8:40 a.m. Wound Repair Strategies for Osseointegration. W. GIANNOBILE* (*University of Michigan, Ann Arbor, USA*)
9 a.m. Wound Biomarkers at Early Phases of Peri-Implant Healing. B. LEBLEBICIOGLU* (*Ohio State University, Columbus, USA*)

Seq#: 154 Saturday, 24 March 2012, 8 a.m. – 9:30 a.m.
Symposium, Room 10

Symposium – Where and How to Get Extra Teeth

Theme: Stem Cell Biology in Craniofacial Tissues

Chairpersons: V. Barnes

- 1169** 8 a.m. Patterning the Buccolingual Axis of the Tooth Developmental Field. R. JIANG* (*Cincinnati Children's Hospital Medical Center, OH, USA*)
8:15 a.m. Wnt Signaling and Supernumerary Tooth Formation. X.-P. WANG* (*Harvard School of Dental Medicine, Boston, MA, USA*)
8:30 a.m. Fibroblast Growth Factor Signaling in Tooth Epithelial Stem Cells. F. WANG* (*Texas A&M Health Science Center, Houston, USA*)
8:45 a.m. G-protein Signaling: A New Regulator for Tooth Development. O. HORST* (*University of California, San Francisco, Albany, USA*)
9 a.m. Discussion.

Seq#: 155 Saturday, 24 March 2012, 8 a.m. – 9:30 a.m.
Oral Session, Room 14

Behavioral, Epidemiologic, and Health Services Research – Oral Health Impacts and Inequalities

Chairpersons: C. Okunseri and M. Tavares

- 1170** 8 a.m. The Magnitude of Oral Health Inequalities in the Canadian population. V. RAVAGHI*, C. QUIÑONEZ, and P. ALLISON (*McGill University, Montreal, Canada*)

- 1171** 8:15 a.m. Dental Caries and Dental Visits Among U.S. Women 1999–2004. A. AZOFEIFA*, E. BELTRÁN-AGUILAR, C. ALVERSON, A. CORREA, and L. YEUNG (*Centers for Disease Control and Prevention, Atlanta, GA, USA*)
1172 8:30 a.m. Oral Health of Developmentally Disabled Adults: a Large Scale Study. J. MORGAN*, P. MINIHAN, P. STARK, W. TAO, M. FINKELMAN, C. NOBLES, K. YANTSIDES, and A. MUST (*Tufts University, Boston, MA, USA*)
1173 8:45 a.m. Dental Caries Among Twelve-Year-Old Puerto Ricans: 1997 and 2011. K. RAMIREZ*, M. MURILLO, L. ORRACA, E. SANTIAGO, W. PSOTER, S. RIVAS-TUMANYAN, and A. ELIAS (*Universidad de Costa Rica, San Juan, USA*)
S1174 9 a.m. Racial Variations in Emergency Wait Times for Nontraumatic Dental Conditions. C. OKUNSERI, S. HARUNANI*, C. CHILMAZA, Q. XIANG, and A. SZABO (*Marquette University, Milwaukee, WI, USA*)
1175 9:15 a.m. Use of and Attitudes Toward Non-Dentist Providers: from The Dental-PBRN. C. BLUE, S. RIGGS*, D.B. RINDAL, A.F. HASME, D. WORLEY, D. PIHLSTROM, G.H. GILBERT, and The DPBRN Collaborative Group (*University of Minnesota, Minneapolis, USA*)

Seq#: 156 Saturday, 24 March 2012, 8 a.m. – 9:30 a.m.
Oral Session, Room 20

Cariology Research – Fluoride and Ca-based Products – Cariology: Fluoride and Ca-based Products II

Chairpersons: C. Carey and L. Tenuta

- S1176** 8 a.m. Should Low Fluoride Toothpastes Be Prescribed For Preschoolers?. A.P. SANTOS*, B. DE OLIVEIRA, and P. NADANOVSKY (*Universidade Do Estado do Rio de Janeiro, Rio de Janeiro, RJ, Brazil*)
1177 8:15 a.m. Fluoride Bioavailability from Silica- or Calcium Carbonate-based Toothpastes. J. CURY*, A. FALCÃO, and L.M.A. TENUTA (*Piracicaba Dental School, University of Campinas, Brazil*)
1178 8:30 a.m. Mineralizing Properties of Calcium Phosphate-Based Treatment for Enamel Surfaces. S. BODEPUDI*, R. LEGEROS, D. SAXENA, and B. PENUGONDA (*New York University, USA*)
1179 8:45 a.m. Effect of Fluoride, Calcium and Phosphate on Releases from Varnishes. M. TUNG* and A. CHUANG (*NIST, Gaithersburg, MD, USA*)
1180 9 a.m. Fluoride Varnish Migration and Fluoride Bioavailability. P. KLAIBER* and V. KOLB (*3M ESPE, Saint Paul, MN, USA*)
1181 9:15 a.m. Anticaries potential of products formed/retained on enamel by fluoride gels. L. TENUTA*, R. CERZETTI, A. DEL BEL CURY, T. LEITÃO, and J. CURY (*Piracicaba Dental School, University of Campinas, Brazil*)

Seq#: 157 Saturday, 24 March 2012, 8 a.m. – 9:30 a.m.
Oral Session, Room 15

Craniofacial Biology – Suture and Bone: Biology and Genetics

Chairpersons: A. Voisey and L. Holliday

- S1182** 8 a.m. A Direct Role for DKK1 in Calvarial Osteogenesis. A. VOISEY*, M. LIU, S. ARORA, P. DECHOW, L. OPPERMAN, P. KURIMOTO, H. KE, R. D'SOUZA, and J. FENG (*Baylor College of Dentistry, Dallas, TX, USA*)
1183 8:15 a.m. The Wiscott-Aldrich and Scar Homolog (WASH) complex in osteoclasts. L. HOLLIDAY*, E. TORO, and J. ZUO (*University of Florida, Gainesville, USA*)

- 1184** 8:30 a.m. Gene Analysis and Osteoblast Phenotype Characterization of Non-Syndromic Metopic Craniosynostosis. A. WHITTON, R. OLIVARES-NAVARRETE, S. HYZY, C. BRITT*, J. WILLIAMS, Z. SCHWARTZ, and B.D. BOYAN (*Georgia Institute of Technology, Atlanta, USA*)
- 1185** 8:45 a.m. Time Course and Gene Expression Analysis of Juvenile Mouse Re-synostosis. C. HERMANN*, K. LAWRENCE, R. OLIVARES-NAVARRETE, J. WILLIAMS, Z. SCHWARTZ, and B.D. BOYAN (*Georgia Institute of Technology, Atlanta, USA*)
- 1186** 9 a.m. Murine Rapid Re-synostosis Model is Both Location and Age Dependent. K. LAWRENCE*, C. HERMANN, R. OLIVARES-NAVARRETE, J. WILLIAMS, Z. SCHWARTZ, and B.D. BOYAN (*Georgia Institute of Technology, Atlanta, USA*)
- 1187** 9:15 a.m. Collagen Type XII Expression in the Decorin Null Mouse. R. TAYLOR*, W. VU, A. RANGIANI, A. EMORY, and S. MACK (*Baylor College of Dentistry, Dallas, TX, USA*)

Seq#: 158 Saturday, 24 March 2012, 8 a.m. – 9:30 a.m.
Oral Session, Room 25

Dental Materials: Color and Appearance (Esthetics) – Color and Appearance (esthetics): Hard and Soft Dental Tissues and Restorative Materials

Chairpersons: W. Johnston and M. Beatty

- 1188** 8 a.m. Confirmation of Theoretical Color Predictions for Layering Resin Composite Materials. S. MIKHAIL, S. AZER, and W. JOHNSTON* (*Ohio State University, Columbus, USA*)
- 1189** 8:15 a.m. Optical Properties of CAD-CAM Generated Zirconia and Glass-Ceramic Laminate Veneers. T. ALGHAZZAWI*, P.-R. LIU, M. ESSIG, J. LEMONS, and G. JANOWSKI (*Taibah University, Madina, Saudi Arabia*)
- 1190** 8:30 a.m. Light Transmission Characteristics of Dentin and Opaque-Shade Resin Composites. M. NAKAJIMA*, A. ARIMOTO, T. PRASANSUTTIPORN, and J. TAGAMI (*Tokyo Medical & Dental University, Japan*)
- 1191** 8:45 a.m. Cosmetic, Nanoclay and Functional Pigment Performance in UVB-Irradiated Facial Elastomers. M. BEATTY*, G. POLYZOIS, B. SIMETICH, and J. SCHULTE (*VA Nebraska-Western Iowa Healthcare System / University of Nebraska, Lincoln, USA*)
- S1192** 9 a.m. The Role of Enamel Crystallography on Tooth Shade. H. EIMAR*, B. MARELLI, S.N. NAZHAT, W.M. AMIN, J. TORRES, R. ALBUQUERQUE, and F. TAMIMI (*McGill University, Montreal, Canada*)
- 1193** 9:15 a.m. Optical Effects of Artificial Gingival Color on Ceramic Crown Shade. J. WANG, J. LIN*, J. DA SILVA, and S. NAGAI (*Harvard University, Boston, MA, USA*)

Seq#: 159 Saturday, 24 March 2012, 8 a.m. – 9:30 a.m.
Oral Session, Room 22

Dental Materials: Adhesion – Bond Strength Testing and Mechanisms – Self-etch Adhesives

Chairpersons: B. Suh and L. Chen

- S1194** 8 a.m. TEM Study on Acid-base Resistance of the Dentin-adhesive Interface. H. NURROHMAN*, T. NIKAIIDO, T. TAKAGAKI, A. SADR, S. ICHINOSE, and J. TAGAMI (*Tokyo Medical & Dental University, Japan*)
- S1195** 8:15 a.m. Bonding of Self-Etch Adhesives in Curing-Activation Strategies to Root Canal. S. THITTHAWEEERAT*, M. NAKAJIMA, and J. TAGAMI (*Tokyo Medical & Dental University, Japan*)
- 1196** 8:30 a.m. New One-bottle Self-etch Adhesive is Compatible with Self-Cure Materials. L. CHEN* and B. SUH (*Bisco, Schaumburg, IL, USA*)

- 1197** 8:45 a.m. Hydrophobicity and Bond Strength Durability of Single-Step Self-Etch Adhesives. L. CHEN and B. SUH* (*BISCO, Inc, Schaumburg, IL, USA*)
- S1198** 9 a.m. Bond durability of four contemporary self-etching systems. J. FU*, F. PANG, S. TING, K. OKUYAMA, Y. NAKAOKI, T. IKEDA, and H. SANO (*Hokkaido University, Sapporo, Japan*)
- S1199** 9:15 a.m. Self-etching adhesives as pre-conditioner for bonding to NaOCl-treated dentin. T. PRASANSUTTIPORN*, M. NAKAJIMA, and J. TAGAMI (*Tokyo Medical & Dental University, Japan*)

Seq#: 160 Saturday, 24 March 2012, 8 a.m. – 9:30 a.m.
Oral Session, Room 23

Dental Materials: Polymer-based Materials-Physical Properties and Performance – Reinforced Resin-composites and Impression Materials

Chairpersons: C. Aparicio and S. Rupf

- 1200** 8 a.m. Surface Properties Modification Induced by Sterilization of Dental Resin Composites. C. APARICIO*, J. LI, R. CHEN, Y. LI, A. FOK, R. JONES, and J. RUDNEY (*University of Minnesota School of Dentistry, Minneapolis, USA*)
- 1201** 8:15 a.m. Antibacterial dental composites reinforced by tunicate cellulose whiskers. X. XU*, R. WU, J.-F. ZHANG, Y. WANG, S. COSTIN, Y. FAN, and J. HAGAN (*Louisiana State University, New Orleans, USA*)
- 1202** 8:30 a.m. Mechanical Properties of Alginate Impression Material Modified with Silica Fume. D. SABA*, S. SANIOUR, and I. FATEH EL BAB (*University of Cairo, Egypt*)
- 1203** 8:45 a.m. 3D-Precision of Dies Made with Different Impression Materials and Techniques. S. RUPF*, H. RUDOLPH, M. GRAF, C. EDELMANN, and R.G. LUTHARDT (*Ulm University, Germany*)
- 1204** 9 a.m. Understanding How TiO₂ Nanoparticles Improve the Performance of Dental Adhesives. J. SUN*, S. WATSON, and D. ALLSOPP (*American Dental Association Foundation, Gaithersburg, MD, USA*)
- 1205** 9:15 a.m. Mechanical Properties of a Novel Automix Resin-Modified Glass-Ionomer Luting Cement. Y. WANG*, T. TON, A. FALSAFI, T. TRAN, and J. OXMAN (*3M ESPE Dental Products, Saint Paul, MN, USA*)

Seq#: 161 Saturday, 24 March 2012, 8 a.m. – 9:30 a.m.
Oral Session, Room 21

Oral Medicine & Pathology – Carcinogenesis II

Chairpersons: J. Kim and L. Baccaglini

- 1206** 8 a.m. Cleavage of RNA-binding protein HuR modulates c-Myc expression in OSCC. V. PALANISAMY*, S. TALWAR, and M.B. GILLESPIE (*Medical University of South Carolina, Charleston, USA*)
- S1207** 8:15 a.m. E-Cadherin Loss Promotes Squamous Cell Carcinoma Development through Dab-2 Down-regulation. S. PORE*, J. GARLICK, J. BALEJA, and A. ALT-HOLLAND (*Tufts University, Boston, MA, USA*)
- S1208** 8:30 a.m. NFATc2 Mediates GalR2-Induced Invasion and Proliferation. C. SCANLON*, R. BANERJEE, and N. D'SILVA (*University of Michigan, Ann Arbor, USA*)
- S1209** 8:45 a.m. Rap1B-induced p38 Promotes TTP phosphorylation and Invasion in HNSCC. E. VAN TUBERGEN*, M. LIU, R. BANERJEE, R. VANDER BROEK, K. KIRKWOOD, and N. D'SILVA (*University of Michigan, Ann Arbor, USA*)

- S1210** 9 a.m. p38-MAPK Regulates TTP-Mediated Cytokine Secretion and Angiogenesis in Oral Cancer. R. VANDER BROEK*, E. VAN TUBERGEN, Y. WANG, P. POLVERINI, K. KIRKWOOD, and N. D'SILVA (*University of Michigan, Ann Arbor, USA*)
- S1211** 9:15 a.m. CDK2AP1 regulates Wnt pathway in mESC self-renewal through DNA methylation. J. KIM*, O. KHALID, H.-H. SUN, D. WONG, and Y. KIM (*University of California – Los Angeles, USA*)

Seq#: 162 Saturday, 24 March 2012, 8 a.m. – 9:30 a.m.
Oral Session, Room 19

Periodontal Research – Pathogenesis – Periodontal Pathogenesis: Molecular Mechanisms

Chairpersons: J. Shango and R. Teles

- 1212** 8 a.m. Neutrophils respond to hypoxia through NADPH oxidase and PI₃K/AKT/HIF-1. T. NAGAHARA, H. HASTURK, T. VAN DYKE, and A. KANTARCI* (*Forsyth Institute, Cambridge, MA, USA*)
- 1213** 8:15 a.m. Linking mTRAF6-transcriptome To IL-17-&-osteotropic Cytokines' Signal Interactions In DDOC-associated Osteoclastogenesis. M.-H. CHIANG*, Y.-T. TENG, Y.-H. WANG, and Y.C. LIU (*Center for Osteoimmunology & Biotechnology Research, College of Dental Medicine, Kaohsiung Medical University, Kaohsiung City, Taiwan*)
- 1214** 8:30 a.m. Effects of Tobacco Smoke Components on Human Neutrophils. N. AL-SHIBANI*, M. KOWOLIK, and L.J. WINDSOR (*King Saud University, Riyadh, Saudi Arabia/Indiana University Purdue University, Indianapolis, USA*)
- 1215** 8:45 a.m. Lactoferrin Knockout Mice Exhibit Greater Susceptibility to Localized Aggressive Periodontitis. K. VELLIYAGOUNDER*, S.K. VELUSAMY, K. GANESHNARAYAN, K. MARKOWITZ, H. SCHREINER, and D. FINE (*New Jersey Dental School – UMDNJ, Newark, USA*)
- S1216** 9 a.m. Recruitment of Regulatory Lymphocytes Attenuates Periodontal Disease Symptoms. A. GLOWACKI*, S. JHUNJHUNWALA, S. YOSHIZAWA, C. SFEIR, G. GARLET, and S.R. LITTLE (*University of Pittsburgh, PA, USA*)
- S1217** 9:15 a.m. Periodontal Breakdown Correlates with Lower Periostin Levels in Inflammatory Model. J. RODRIGUEZ*, M. PADIAL-MOLINA, S.L. VOLK, A.D. TAUT, W.V. GIANNOBILE, and H.F. RIOS (*University of Michigan, Ann Arbor, USA*)

Seq#: 163 Saturday, 24 March 2012, 8 a.m. – 9:30 a.m.
Oral Session, Room 16

Prosthodontics Research – Fixed Prosthodontics

Chairpersons: Y. Chen and J. Sorensen

- S1218** 8 a.m. Stress-induced shape optimization of two-unit cantilever fiber-reinforced composite dental bridge. Y.-C. CHEN* and A. FOK (*University of Minnesota School of Dentistry, Minneapolis, USA*)
- 1219** 8:15 a.m. Effect of Irrigation Solutions on Bond Strength of Fiber Posts. F. ALKHUHAIRY, P. YAMAN*, J. DENNISON, and N. MCDONALD (*University of Michigan, Ann Arbor, USA*)
- S1220** 8:30 a.m. Fracture Resistance of Endodontically Treated Teeth Restored with Bonded Post/Cores. G. MAROULAKOS, E.D. KONTOGIORGOS*, J. HE, and W. NAGY (*Baylor College of Dentistry, Dallas, TX, USA*)
- 1221** 8:45 a.m. Crown Retention After Long-Term Specimen Aging For Self-Adhesive Modified-Resin Cements. G.H. JOHNSON, K. SHOR*, and M.H. KRONSTRÖM (*University of Washington, Seattle, USA*)

- 1222** 9 a.m. Residual Stresses in Porcelain-Veneered Zirconia Prostheses. M. BALDASSARRI*, C. STAPPER, M. WOLFF, V. THOMPSON, and Y. ZHANG (*New York University, USA*)
- 1223** 9:15 a.m. Veneer Thickness Ratio and Layering Methodology Effect Layered Zirconia Strength. J. SORESENSEN*, T. HILL, and K. CHLOSTA (*Pacific Dental Institute, Portland, OR, USA*)

Seq#: 164 Saturday, 24 March 2012, 8 a.m. – 9:30 a.m.
Oral Session, Room 11

Salivary Research – Keynote Address and Salivary Gland Development and Function

Chairpersons: F. Liu and O. Baker

- 1224** 8 a.m. Keynote Address: Deconstruction and Construction of a Salivary Gland. M. LARSEN*, W.P. DALEY, E.M. GERVAIS, D.A. NELSON, S. SEQUEIRA, C.T. MANHARDT, and S. CANTARA (*University at Albany, SUNY, NY, USA*)
- 1225** 8:30 a.m. Contribution of Notch Signaling to Chronic Radiation-Induced Salivary Gland Damage. G. MITCHELL, D. ARNETT, R. BURD, and K. LIMESAND* (*University of Arizona, Tucson, USA*)
- 1226** 8:45 a.m. Modulating Wnt-Hedgehog Signaling to Protect/Restore Salivary Glands Function after Radiation. F. LIU*, B. HAI, and Z. YANG (*Texas A&M Health Science Center, Temple, USA*)
- 1227** 9 a.m. Salivary Epithelial Cells Express Functional Resolvins Receptors. O. ODUSANWO and O. BAKER* (*State University of New York – SUNY – Buffalo, USA*)
- S1228** 9:15 a.m. Relative Quantitative Phosphoproteome Of Whole Saliva Supernatant. H. NOUH*, F. OPPENHEIM, and E. SALIH (*Boston University, Brighton, MA, USA*)

Seq#: 165 Saturday, 24 March 2012, 8 a.m. – 9:30 a.m.
Oral Session, Room 24

Theme: Scaffolds for Use in Regenerative Dental Medicine

Chairpersons: M. Bottino and H. Xu

- 1229** 8 a.m. Biofunctionalized Calcium-Phosphate Cement Seeded with Stem Cells for Bone Engineering. H. ZHOU, W. THEIN-HAN, M.D. WEIR, and H. XU* (*University of Maryland, Baltimore, USA*)
- 1230** 8:15 a.m. Processing/Characterization of an Electrospun Composite Nano/Microfibrous Scaffold for Endodontic Regeneration. G. YASSEN, Y. EHRLICH, K. SPOLNIK, N. PATEL, A.H. BRESSIANI, J.A. PLATT, and M. BOTTINO* (*Indiana University School of Dentistry, Indianapolis, USA*)
- 1231** 8:30 a.m. Sinus Augmentation with Porous Titanium Granules -MicroCT and Histological Analysis. A. VERKET*, S. LYGSTADAAS, L. RASMUSSEN, and J. WOHLFAHRT (*Biomaterial Group Oslo, Norway*)
- S1232** 8:45 a.m. Nano-Structured Injectable Cell Carriers for Dental Regeneration. I. GARZÓN*, A. STROM, Y. LU, R.N. D SOUZA, and X. LIU (*Baylor College of Dentistry; Tissue Engineering Group, Department of Histology, University of Granada, Granada, Spain, Dallas, TX, USA*)
- 1233** 9 a.m. Multiphase Bioscaffold for Integrated Regeneration of Root-Periodontium Complex. C. LEE*, J. HAJIBANDEH, J. AHN, A. FAN, and J. MAO (*Columbia University, New York, NY, USA*)
- 9:15 a.m. Discussion.

Seq#: 166 Saturday, 24 March 2012, 9:45 a.m. – 11 a.m.
Poster Discussion Session, Room 25

**Behavioral, Epidemiologic, and Health Services Research –
Large Scale Oral Health Surveys: Analysis and Findings (PDS)**

Chairpersons: M. Lee and H. Hasturk

9:45 a.m. Poster Viewing Period.

S1234 10:05 a.m. Cleft Lip And Cleft Palate Surgeries In The United States. V. ALLAREDDY, K. TURKISTANI*, G.G. HOROWITZ, and S. VENUGOPALAN (*Harvard University, Boston, MA, USA*)

S1235 10:12 a.m. Associations of Preventive Medicine and Dental Visits with Child Care. J. KIM and L.M. KASTE* (*University of Illinois at Chicago, USA*)

S1236 10:19 a.m. Outcomes of Hospitalizations Attributed to Periapical Abscess from 2000-2008. A. SHAH, K. LEONG*, M.K. LEE, and V. ALLAREDDY (*Tufts University, Boston, MA, USA*)

S1237 10:26 a.m. Perceived Unmet Dental Needs: CSHCN in States with Appalachian Counties. R.C. WIENER*, R.J. CROUT, and M.A. WIENER (*West Virginia University, Morgantown, USA*)

S1238 10:33 a.m. Weekly Visit Patterns to Emergency Departments for Nontraumatic Dental Conditions. M. FISCHER*, S. SADEGHI, Q. XIANG, A. SZABO, and C. OKUNSERI (*Marquette University, Milwaukee, WI, USA*)

S1239 10:40 a.m. Use of Propensity Scores in Analyzing Dental Insurance Reimbursement Claims. H. BEIL*, J. PREISSER, Jr., and R.G. ROZIER (*University of North Carolina, Chapel Hill, USA*)

S1240 10:47 a.m. Nine Year Trend Analysis Of Hospitalizations Attributed To Oral Cancers. V. ALLAREDDY, M.K. LEE*, and G.G. HOROWITZ (*Harvard University, Boston, MA, USA*)

Seq#: 167 Saturday, 24 March 2012, 9:45 a.m. – 11 a.m.
Poster Session, East Hall

**AADR/Johnson & Johnson Oral Health Products Hatton
Awards – Junior Category**

S1241 Effects of Corticosteroid Administration on Oral Mucosal Healing. M. MANOS*, P. GAJENDRAREDDY, P. MARUCHA, and C. ENGELAND (*University of Illinois – Chicago, USA*)

S1242 Modulating Alcohol Effects on the Midface by Vitamin A Derivatives. J.Y. AN*, A.M. MAGA, L. COX, and T.C. COX (*University of Washington, Seattle, USA*)

S1243 Formation of Dentin-like Structure on 3D-Printed Scaffolds: Role of Microstructure. J. HAJIBANDEH*, C. LEE, T. SUZUKI, and J. MAO (*Columbia University, New York, NY, USA*)

S1244 3D-Printed Tricalcium Phosphate Scaffolds with Temporary Calcium Sulfate Filler. J. GOETZ*, E. CLARK, S. IYER, and J. RICCI (*New York University, USA*)

S1245 *wnt9b* Morphants Reveal Conservation of Ancient Pharyngeal Cartilage Patterning Pathway. H. JACKSON*, T. PAYNE-FERREIRA, and P. JEZEWSKI (*University of Alabama at Birmingham, USA*)

S1246 Microleakage study of fluoride-releasing sealants. E.-C. LEE*, J. TOWNSEND, Y. FAN, J. HAGAN, and X. XU (*Louisiana State University, New Orleans, USA*)

S1247 Runx2 Regulates FGF3 Expression Through Direct Binding and Promoter Occupancy. M. MORELAND*, H. RASHID, H. CHEN, A. SAROF, S. GUTIERREZ, and A. JAVED (*University of Alabama, Birmingham, USA*)

S1248 BRF-1 is Critical for Bone Remodeling. R. GORDON*, P.M. PERERA, B. LEBLEBICIOGLU, and S. AGARWAL (*Ohio State University College of Dentistry, Columbus, USA*)

S1249 Fibrochondrocytes Derived from Human Mesenchymal Stem/Progenitor Cells for TMJ Regeneration. J. SUN*, C. LEE, and J. MAO (*Columbia University, New York, NY, USA*)

Seq#: 168 Saturday, 24 March 2012, 9:45 a.m. – 11 a.m.
Poster Session, East Hall

**AADR/Johnson & Johnson Oral Health Products Hatton
Awards – Senior Category**

S1250 Sclerostin Deletion Rescues Periodontal Bone Loss in Periostin Knock-out Mice. Y. REN*, X. HAN, M. LIU, J. WANG, Y. LIU, H. KE, and J. FENG (*Baylor College of Dentistry, Dallas, TX, USA*)

S1251 Biogenesis of Oral Streptococcal Adhesin Requires Interactions Among Glycosylation-Associated Proteins. H. ECHLIN*, F. ZHU, and H. WU (*University of Alabama at Birmingham, USA*)

S1252 Proteolytic processing of dentin sialophosphoprotein plays essential role in dentinogenesis. M. PRASAD*, Q. ZHU, Q. LIU, J.Q. FENG, and C. QIN (*Baylor College of Dentistry, Dallas, TX, USA*)

S1253 BMP Regulatory Activity is Enabled by Glycosylation of Twisted gastrulation. C. BILLINGTON, Jr.*, J. FIEBIG, C. FORSMAN, L. PHAM, N. BURBACH, M. SUN, T. JASKOLL, K. MANSKY, R. GOPALAKRISHNAN, M.B. O'CONNOR, T.D. MUELLER, and A. PETRYK (*University of Minnesota, Minneapolis, USA*)

S1254 Progesterone Regulates Endothelin Receptor-A Expression. Y. ZHANG* and L.-B. RUEST (*Baylor College of Dentistry, Dallas, TX, USA*)

S1255 A Novel Role of Osterix in Mouse Mandibular Condyle Formation. J. JING*, H. ZHANG, Y. LIU, K. CHUANG, X. ZHOU, and J. FENG (*Baylor College of Dentistry, Dallas, TX, USA*)

S1256 Integration of Oxygen- and Carbohydrate-dependent Gene Expression in *Streptococcus mutans*. M. WATTS*, S.-J. AHN, and R. BURNE (*University of Florida, Gainesville, USA*)

S1257 MKP-1 is Required for Canonical 1,25(OH)₂D₃-signaling and Osteoclastogenesis. A. GRIFFIN, III* and K.L. KIRKWOOD (*Medical University of South Carolina, Charleston, USA*)

S1258 CD49f is a putative odontogenic epithelial stem cell marker. J.Y.F. CHANG*, R. D'SOUZA, and F. WANG (*Baylor College of Dentistry, Houston, TX, USA*)

Seq#: 169 Saturday, 24 March 2012, 9:45 a.m. – 11 a.m.
Poster Session, East Hall

**AADR/Johnson & Johnson Oral Health Products Hatton
Awards – Post-doctoral Category**

S1259 Osterix Plays a Distinct Role in Root Dentinogenesis through β -catenin. H. ZHANG*, Z. CAO, Y. LU, T. GAO, Y. LIU, R. D'SOUZA, and J. FENG (*Texas A&M Health Science Center, Baylor College of Dentistry, Dallas, USA*)

S1260 HRI Kinase is Involved in the Development of Dental Fluorosis. M. SIERANT*, R. SHARMA, and J. BARTLETT (*Forsyth Institute, Cambridge, MA, USA*)

S1261 TMJ derived Stem/Progenitor Cells: Properties, Clonal Characteristics, and Regeneration Potential. M. EMBREE*, G. IWAOKA, P. SHAKOORI, M. VLAHOS, J. CASTILLO, C. LEE, S. EISIG, and J. MAO (*Columbia University, New York, NY, USA*)

S1262 Characterization of the Arginolytic Microflora of Human Oral Biofilms. Y. LIU*, M. NASCIMENTO, R. SCHULTE, R. KALRA, and R. BURNE (*University of Florida, Gainesville, USA*)

S1263 Salivary Biomarkers for Gastric Cancer Detection: The Saliva RNA Interactome. J. YOSHIKAWA*, X. WANG, D.E. ELASHOFF, H. ZHOU, Y. KIM, S. KIM, and D.T. WONG (*University of California – Los Angeles, USA*)

S1264 Breast Cancer-Derived Exosomes Alters Human Salivary Gland-Derived Exosomes *In Vitro*. C. LAU* and D.T.W. WONG (*University of California Los Angeles, USA*)

1265 Social Stress-induced Increases in NK Cell Cytolytic Potential Without Infection. A. TARR*, N.D. POWELL, and J.F. SHERIDAN S (*Ohio State University, Columbus, USA*)

S1266 Systems Biology Analysis of Sjogren's Syndrome Pathogenesis: Human-Mouse Intersection Network. A.N.M. NAZMUL-HOSSAIN*, R.P.E. POLLARD, A. VISSINK, C.G.M. KALLENBERG, F.K.L. SPIJKERVET, H. BOOTSMA, F.G.M. KROESE, S.A. MICHIE, S.-U. GORR, A.B. PECK, S. HORVATH, and D.T.W. WONG (*University of California – Los Angeles, USA*)

S1267 Anti-biofilm Chemotherapy Modulates Expression of *Streptococcus mutans* Virulence in vivo. M. FALSETTA*, M. KLEIN, and H. KOO (*University of Rochester School of Medicine and Dentistry, NY, USA*)

Seq#: 170 Saturday, 24 March 2012, 9:45 a.m. – 11 a.m.
Poster Session, East Hall

AADR DENTSPLY/Caulk Competition – Basic Science

S1268 CD4+ and CD8+ T Cells in Murine Wound Healing Models. N. MEHTA*, L. CHEN, and L. DIPIETRO (*University of Illinois – Chicago, USA*)

S1269 Alveolar Bone Stem Cells: An Isolation, Characterization, and Differentiation Approach. J. YUE*, A. CAVENDER, and I. GAY (*University of Texas – Houston/Health Science Center, USA*)

S1270 Fenretinide (4-HPR) Suppresses Transformed Keratinocyte Migration: An Additional Chemopreventive Mechanism. M. BORDER*, M. TONG, A. HOLPUCH, B. HAN, R. HINKLE, P. PEI, and S.R. MALLERY (*Ohio State University, Columbus, USA*)

S1271 Use of a Novel Microstimulatory Device for TMJ Treatment. A. LINDLEY*, C. KESSLER, and R. SPEARS (*Baylor College of Dentistry, Dallas, TX, USA*)

S1272 Novel Link Between Xerostomia and Tooth Decay in Diabetic Model. D. LARIVEY*, C.-K. YEH, D. HORN, Y.-H.P. CHUN, J. JORGENSEN, M. MACDOUGALL, and S. ABBOD-WERNER (*University of Texas – San Antonio / Health Science Ctr, USA*)

S1273 Viral Vector Gene Delivery to Trigeminal Sensory Neurons. W. YODER*, R.J. DANAHER, K. WESTLUND, F. MA, L. ZHANG, C. WANG, T. KNIFFIN, C. CARLSON, and C.S. MILLER (*University of Kentucky, Lexington, USA*)

S1274 IL-17 and IL-23 Affect Inflammation in the TMJ. C. KESSLER* and R. SPEARS (*Baylor College of Dentistry -, Dallas, TX, USA*)

S1275 HIV-Specific Promoters to Eliminate HIV-Infected Cells by Gene Therapy. S. GEBREMEDHIN, A. AU*, K. KONOPKA, M. MILNES, and N. DÜZGÜNES (*University of the Pacific, San Francisco, CA, USA*)

Seq#: 171 Saturday, 24 March 2012, 9:45 a.m. – 11 a.m.
Poster Session, East Hall

AADR DENTSPLY/Caulk Competition – Clinical Science

S1276 *RUNX2* Regulation of *LEF-1* in CCD Cells with Different Defects. A. JONES*, O. MAMAEVA, J. DONG, and M. MACDOUGALL (*University of Alabama at Birmingham, USA*)

S1277 Ethnicity is a determinant of microbial signatures in oral biofilms. M. MASON*, V. JOSHI, H. FISCHBACH, and P. KUMAR (*Ohio State University, Columbus, USA*)

S1278 Folate-related genes and orofacial clefts in Sohag, Egypt. J. RECTOR*, A. BALGHONAIM, M. TOLAR, S. BAKRI, H. BERDICHEVSKY, and M.M. TOLAROVA (*University of the Pacific, San Francisco, CA, USA*)

S1279 Inflammatory response of Aggressive Periodontitis upon Stimulation of toll-like receptors. N. GUBA*, H. HUANG, I. AUKHIL, S. WALLET, and L. SHADDOX (*University of Florida, Gainesville, USA*)

S1280 TGF-beta/BMP Pathway Dysregulation in Radicular Dentin Dysplasia EOE. L. PAUL*, A. GULLARD, E. LAMANI, O. MAMAEVA, and M. MACDOUGALL (*University of Alabama at Birmingham, USA*)

S1281 Salivary Biomarker Concentrations in Patients with Intraoral Lesions and Controls. K. GYLLENHAAL*, C.G. ENGELAND, J. VECCHIO, and D.J. FISCHER (*University of Illinois – Chicago, USA*)

S1282 Oral Wound Healing In Patients With Type 2 Diabetes Mellitus. U. VARGAS* (*University of Texas – San Antonio / Health Science Ctr, USA*)

Seq#: 172 Saturday, 24 March 2012, 9:45 a.m. – 11 a.m.
Poster Session, East Hall

Prosthodontics Research – Prosthodontics Basic Research

S1283 Stresses in peri-implant bone tissue during healing period. J. CAMPANA*, M. SANTOS, A. BACCHI, R. CONSANI, M. MESQUITA, I. PEREIRA, and C. CAETANO (*State University of Campinas, Americana, Brazil*)

1284 Stress Analysis In The Crown/Implant Ratio With Different Connections. E. PELLIZZER*, S.L. DE MORAES, F. VERRI, J. SANTIAGO JÚNIOR, D.A.F. ALMEIDA, and P.S. DE CARVALHO (*Universidade Est. Paulista Julio Mesquita, Araçatuba, Brazil*)

1285 Risks of Ceramic and Cement Failure on Posterior Onlay Restoration. D. KOIS, V. ISVILANONDA*, Y. CHAIYABUTR, and J. KOIS (*University of Washington, Seattle, USA*)

1286 Effect of Carbon Nanotubes on Mechanical Properties of Denture Resin. R. WANG*, R. KAYACAN, C. KUCUKESMEN, O. AKKUS, C. BOSNYAK, and L. LANG (*Case Western Reserve University, Cleveland, OH, USA*)

1287 Hydrophobicity of a Denture Base Resin containing an Experimental Polymer. A. PERO*, M. COMPAGNONI, A. PALEARI, L. RODRIGUEZ, J. MARRA, A. LEITE, and J. IGNÁCIO (*Universidade Est. Paulista Julio Mesquita, Araraquara, Brazil*)

S1288 Effectiveness of Screw Surface Coating on Zirconia Abutment Stability after Loading. M. BASÍLIO*, L.E. BUTIGNON, and J. ARIOLI FILHO (*PhD Postgraduate Student at Universidade Est. Paulista Julio Mesquita, Araraquara, Brazil*)

1288.1 Mucosa influence on stresses at peri-implant bone. C. CAETANO*, R. CONSANI, M. SANTOS, A. BACCHI, J. CAMPANA, and I. PEREIRA (*University of Campinas, Piracicaba, Brazil*)

- 1289** Effect of Hydrogen Peroxide on Bond Strength of Fiber Post. P. SRIONTHIANG*, I. BOONSIRI, and S. ARUNPRADITKUL (*Chulalongkorn University, Bangkok, Thailand*)
- S1290** Finite Element Analysis in Stress Evaluation of Implant Connection. I. MARQUES*, J.M.F.K. TAKAHASHI, C. BHERING, M. NOBILO, R. CONSANI, and M. MESQUITA (*Piracicaba Dental School – Campinas State University, Brazil*)
- S1291** Porcelain Bond Strengths to Four Noble Alloys using PoM Technique. M. KHMAJ*, A. KHMAJ, W. BRANTLEY, W. JOHNSTON, T. DASGUPTA, P. MCCABE, and G. TYSOWSKY (*Ohio State University, Columbus, USA*)
- S1292** Bond Strengths for Four Noble Alloys to Conventionally Layered Porcelain. A. KHMAJ*, M. KHMAJ, W. BRANTLEY, W. JOHNSTON, T. DASGUPTA, P. MCCABE, and G. TYSOWSKY (*Ohio State University, Columbus, USA*)
- S1293** Microstructural Observations of Laser-Sintered Specimens for Prosthodontic Applications. A. FATHALAH*, W. BRANTLEY, W. CLARK, C. DRAGO, S. ROSENSTIEL, R. GRYLLS, and Y. JEONG (*Ohio State University, Columbus, USA*)
- S1294** Effect of Thermocycling on the Compressive Strength of Implant-Abutment Systems. J.M. REIS*, M. BASÍLIO, L. FAIS, J.C. SEGALLA, and L. PINELLI (*Univ Estadual Paulista-UNESP, Araraquara, Brazil, Brazil*)
- S1295** Exopolymeric matrix of *Candida albicans* biofilms developed under fluconazole exposure. I. CAVALCANTI*, A. VASCONCELLOS, Sr., A.P. RICOMINI FILHO, S. LUCENA, W. SILVA, and A.A. DEL BEL CURY (*Piracicaba Dental School – UNICAMP, Brazil*)
- 1296** Water sorption and dimensional stability of an experimental glass-ionomer cement. T. AHN* and A. MOSHAVERINIA (*University of Southern California, Los Angeles, USA*)
- S1297** Evaluating the Validity of the Pink Esthetic Score. S. CHRISTENSEN*, D. DAWSON, D. BLANCHETTE, and C. STANFORD (*University of Iowa, Iowa City, USA*)

Seq#: 173 Saturday, 24 March 2012, 9:45 a.m. – 11 a.m.
Poster Session, East Hall

Dental Materials: Adhesion – Bond Strength Testing and Mechanisms – Adhesives, Bond Strength, and Durability II

- S1298** Effect of PVM/MA Copolymer on Bond Durability of Adhesive Resins. F. OZER, S. PARK*, B.C. YAMAN, and M.B. BLATZ (*University of Pennsylvania, Philadelphia, USA*)
- 1299** Bonding Reliability of All-in-one Adhesive Systems with/without Thermo-mechanical Cyclic Stress. Y. NARA*, S. AKIYAMA, M. MAENO, M. HARA, T. YAMADA, T. MASEKI, and I.L. DOGON (*Nippon Dental University, Tokyo, Japan*)
- S1300** Adhesion of indirect ceramic and composite restorations: influence of chewing. G. TURCO*, A. FRASSETTO, G. MARCHESI, I. SPAGNOLO, C. NAVARRA, R. DI LENARDA, M. CADENARO, and L. BRESCHI (*University of Trieste, Italy*)
- S1301** *In-situ* Analysis of Degree of Conversion of 2-step etch-and-rinse Adhesives. C. NAVARRA*, M. CADENARO, G. TURCO, R. DI LENARDA, and L. BRESCHI (*University of Trieste, Italy*)
- 1302** Effect of Previous Acid Etching on Bonding of Self-etch Adhesives. K. TSUBOTA*, M. MIYAZAKI, S. ANDO, T. TAKAMIZAWA, and M. LATTA (*Nihon University, Tokyo, Japan*)
- 1303** Influence of curing units on one-step self etch adhesives. E. DAUDT*, G. MARCHESI, M. CADENARO, L.N. BARATIERI, and L. BRESCHI (*Universidade Federal De Santa Catarina, Curitiba, Brazil*)

- 1304** Effect of Layers of Bonding System on Dentin Bond Strength. D. LAFUENTE* (*University of Costa Rica, San Pedro, Costa Rica*)
- 1305** Dentin and Enamel Shear Bond Strengths of Nano-Composite Resin. M. AYAD* and A. MAGHRABI (*King Abdulaziz University, Jeddah, Saudi Arabia*)
- S1306** Bonding Durability of Recent All-in-one Adhesive Systems under Thermocycled Repeated-load. M. HARA*, S. AKIYAMA, M. MAENO, S. OGAWA, T. YAMADA, T. MASEKI, Y. NARA, and I.L. DOGON (*Nippon Dental University, Tokyo, Japan*)
- S1307** Bonding performance of recent all-in-one adhesive systems to abrasion-lesion dentin. M. MAENO*, S. AKIYAMA, S. OGAWA, M. HARA, T. MASEKI, Y. NARA, and I.L. DOGON (*Nippon Dental University, Tokyo, Japan*)
- 1308** Effects of sodium hypochlorite on the bonding of composite resin. J. POTTER*, T. MCALISTER, and J.D. JONES (*University of Texas – San Antonio / Health Science Ctr, USA*)
- S1309** Effect of benzalkonium chloride on resin-dentin bond durability. A. MURRAY*, M. VARGAS, S. GERALDELI, F. QIAN, and L. CHEN (*University of Iowa, Iowa City, USA*)
- 1310** Shear Bond Strength of Sealant under Saliva/Blood Contamination. M.C. BORSATTO*, I. MALUTA, A.M. CORRÊA-AFONSO, and R. GALO (*Ribeirão Preto School of Dentistry, University of São Paulo, Brazil*)
- S1311** The use of NaOCl to Increase Bond Strength. C. GLEICHMAN* and M. VARGAS (*University of Iowa, Iowa City, USA*)
- S1312** Dentin Bond Strength Evaluation of Four Adhesive Systems. R. BACELAR-SÁ*, A. CARVALHO, O. WODEVOTZKY, and M. GIANNINI (*State University of Campinas, Piracicaba, SP, Brazil*)
- S1313** Twenty-four hour microtensile bond strength of four adhesives to dentin. S. KYSON*, D. CAKIR, P. BECK, L. RAMP, J. BURGESS, and M. KYSON (*University of Alabama at Birmingham, USA*)
- S1314** Shear Bond Strength on Dentin with Various Drying Techniques. J.-H. BAIR*, S. JOHN, C. DEFURIA, C. FORD, M. HARSONO, R. PERRY, and G. KUGEL (*Tufts University, Boston, MA, USA*)

Seq#: 174 Saturday, 24 March 2012, 9:45 a.m. – 11 a.m.
Poster Session, East Hall

Dental Materials: Ceramic-based Materials and Cements – Wear, Cementation, and Color Space of Ceramics

- 1315** Three-Body Wear of Glazed and Veneered Zirconia. A. PAGANI*, R. SMITH, III, J. ROTHROCK, B. TASKONAK, and J. THOMPSON (*Nova Southeastern University, Fort Lauderdale, FL, USA*)
- 1316** Effect of Glazed Full-Contour Y-TZP on Wear of Glass Ceramics. P. LUANGRUANGRONG, N.B. COOK*, A. SABRAH, A. HARA, and M. BOTTINO (*University of Indiana – Indianapolis, USA*)
- 1317** Wear Behavior of a New Zirconia after Hydrothermal Accelerated Aging. R. DITTMANN*, M. URBAN, G. SCHECHNER, H. HAUPTMANN, and E. MECHER (*3M ESPE, Seefeld, Germany*)
- 1318** Characteristics of Experimental Resin-modified Glass Ionomer for Filling. H. IBARAKI*, Y. NAGASAWA, Y. HIBINO, Y. KASUGA, and H. NAKAJIMA (*Meikai University School of Dentistry, Saitama, Japan*)
- 1319** Fluoride Release of a Novel Automix Resin-Modified Glass-Ionomer Luting Cement. T. TON*, Y. WANG, A. FALSAFI, and J. OXMAN (*3M ESPE Dental Products, Saint Paul, MN, USA*)

- S1320** New digital dynamometer for measurement of cementation pressure. M. TAVEIRA-BARBOSA*, M.A.C. DE ANDRADA, L.C.C. VIEIRA, and L.N. BARATIERI (*Universidade Federal de Alfenas, Alfenas- MG, Brazil*)
- 1321** Finishing-line Curvature Affects the Marginal Gap of All-ceramic Copings. C. ASAVAPANUMAS* and C. LEEVAILOJ (*Chulalongkorn University, Bangkok, Thailand*)
- 1322** *In Vitro* Evaluation Of A Novel Porcelain Coloring Agent. S. SINGHAL, P. BECK*, A. ROBLES, S. SHAH, D. CAKIR, J. BURGESS, and L. RAMP (*University of Alabama at Birmingham, USA*)
- 1323** Contrast Ratios of Uncolored and Colored Zirconia Materials. G. SCHECHNER*, R. DITTMANN, A. FISCHER, and H. HAUPTMANN (*3M ESPE, Seefeld, Germany*)
- 1324** Color Space Variability of Shade Guide Systems in Restorative Dentistry. M. MOORE, W. WASSON, D. TAYLOR, and L. DARNELL* (*University of Tennessee, Memphis, USA*)

Seq#: 175 Saturday, 24 March 2012, 9:45 a.m. – 11 a.m.
Poster Session, East Hall

Dental Materials: Dental Materials: Biocompatibility and Biologic Effects

- S1325** Cytotoxicity of a Calcium Hydroxide Formulation on Cultured Human Cells. P. SHAH*, M. BYARS, J. FALVO, F. RUIZ, and M. WHEATER (*University of Detroit Mercy, MI, USA*)
- S1326** *In Vivo* Evaluation of Various Calcium Phosphate Based Grafting Materials. R. MOUSA*, R. JIMBO, C. MARIN, L. WITEK, H. TEIXEIRA, E. ALMEIDA, E. CLOZZA, and P. COELHO (*New York University, USA*)
- S1327** ATR-FTIR Characterization of Dentin Surface Exposed to Collagen Cross-linking Agents. B. AYDIN*, M. BLAZE, A. ROY, M.G. VIANA, and A.K. BEDRAN-RUSSO (*University of Illinois – Chicago, USA*)
- 1328** Effect of Cyclic Loading and Toothbrush Abrasion on Cervical-Lesion Formation. W. DICKSON*, W. LIEN, K. VANDEWALLE, E. KIM, S. DIXON, and J. SUMMITT (*USAF, Lackland AFB, TX, USA*)
- 1329** Preparation and Evaluation of An Antibacterial Dental Cement. V. CHONG*, Y. WENG, X. GUO, L. HOWARD, R. GREGORY, and D. XIE (*Indiana University, Indianapolis, USA*)
- 1330** High Biocompatibility of Endosolv R on HPDL Cells. A. CHUANG*, J.L. GOODIN, J. HWANG, and J.C. MCPHERSON (*Eisenhower Army Medical Center, Fort Gordon, GA, USA*)
- S1331** Gas-foaming Macroporous CPC Scaffold Encapsulating Human Umbilical-Cord Mesenchymal Stem Cells. W. CHEN*, H. ZHOU, M. TANG, M.D. WEIR, C. BAO, and H.H.K. XU (*University of Maryland Dental School, Baltimore, USA*)
- S1332** Novel Nanocomposites Containing Amorphous Calcium Phosphate Nanoparticles and Antibacterial Agents. L. CHENG*, M. WEIR, H.H.K. XU, J. ANTONUCCI, A. KRAIGSLY, N. LIN, S. LIN-GIBSON, and X. ZHOU (*University of Maryland Dental School, Baltimore, USA*)
- S1333** Nanomechanical Evaluation of Bone Around Non-Loaded and Loaded Endosseous Implants. K. KAMBOJ*, P. COELHO, and M. JANAL (*New York University, USA*)
- S1334** Gene expression of osteogenic cells exposed to calcium aluminate cement. L. CASTRO-RAUCCI*, L. TEIXEIRA, W. RAUCCI-NETO, R. FERNANDES, F. OLIVEIRA, M. JACOBOWITZ, A. ROSA, and P. OLIVEIRA (*School of Dentistry of Ribeirão Preto, University of São Paulo, Ribeirão Preto, SP, Brazil*)

- 1335** Effect of simulated pulpal fluid circulation on intrapulpal temperature values. A. BRAUN, S. KECSMAR, F. KRAUSE*, M. BERTHOLD, M. FRENTZEN, O. BREDE, and F. SCHELLE (*University of Leipzig, Germany*)
- 1336** Non-Viral Gene Delivery in Human Embryonic Palatal Mesenchymal Stem Cells. S. ELANGO VAN*, S. D'MELLO, L. HONG, C. STANFORD, G. JOHNSON, and A. SALEM (*University of Iowa, Iowa City, USA*)
- 1337** Gelling Parameters of Alginate and Viability of Umbilical-Cord Stem Cells. U. KANDALAM*, A.I. CABEL, H. OMIDIAN, and E.J. STELNICKI (*Nova Southeastern University, Davie, FL, USA*)
- S1338** Indirect Cytotoxicity Of An In-Office Bleaching Agent. D. SOARES*, A.P. RIBEIRO, F. VARGAS, J. HEBLING, and C.A. DE SOUZA COSTA (*UNESP, Araraquara, São Paulo, Brazil*)
- 1339** A Reproducible Oral Microcosm Biofilm Model for Testing Dental Materials. J. RUDNEY*, R. CHEN, R. JONES, A. FOK, and C. APARICIO (*University of Minnesota School of Dentistry, Minneapolis, USA*)
- 1340** Physico-Chemical-Mechanical and Cytotoxicity Properties of Calcium-Phosphate Based Pulp Capping Agents. M. MOUSSA*, J. BORKE, and R. KHASHABA (*Cairo University, Egypt*)
- 1341** Cytotoxicity of MTA and Portland Cement on Human Epithelial Cells. J. BABU* and F. GARCIA-GODOY (*University of Tennessee, Memphis, USA*)

Seq#: 176 Saturday, 24 March 2012, 9:45 a.m. – 11 a.m.
Poster Session, East Hall

Dental Materials: Polymer-based Materials-Physical Properties and Performance – Surface Characteristics of Restorative Materials

- S1342** Effect of Storage Duration on Wettability of Resin Composites. S. KHAJOTIA and A. PHAN* (*University of Oklahoma Health Sciences Center, Oklahoma City, USA*)
- 1343** Ph Cycling on Superficial Characteristics of Silarane Based Composites. S. ISHIKIRIAMA*, G. OLIVEIRA, R. MONDELLI, and L. WANG (*University of São Paulo / Bauru School of Dentistry, Bauru – SP, Brazil*)
- 1344** Microtomographical Evaluation of Porosity Formation in Composite Restorations. A. PRESICCI*, W. LIEN, K. VANDEWALLE, and A. HARDING (*USAF, Lackland AFB, TX, USA*)
- 1345** Surface roughness of resin composites polished with one-step systems. N. AL-HAMMAD*, F. ABDELMEGID, M. SALAMA, and F. SALAMA (*King Saud University, Riyadh, Saudi Arabia*)
- S1346** Surface Effects of Soft Drinks to Composites. J. SOTO* and D. LAFUENTE (*Universidad de Costa Rica, San Jose, Costa Rica*)
- 1347** Longevity of Posterior Restorations in Military Personnel. R. AHLF*, M. LACCABUE, S.T. SCHULTZ, and J.W. SIMECEK (*Naval Medical Research Unit – San Antonio, TX, USA*)
- S1348** Effect of Curing Light Distance/Curing Time on Composite Microhardness. R. RAFIQ, A. GRADOS*, M. WOLFF, and T. SALGADO (*New York University, USA*)
- 1349** Flexure Strength and Compressive Fracture Force of Aged Composite Resins. P.C. MOON*, S. DIXON, and S. FILIPONE (*Virginia Commonwealth University – VCU/MCV, Richmond, USA*)

S1350 Influence of Light Source and Erosive Challenge on Composite Microhardness. N.C. GUTIERREZ*, H.M.C. RÊGO, L.F.T.F. SANTOS, M.B.B. KAMAZAKI, S.E.P. GONÇALVES, and C.R.G. TORRES (*Universidade Est. Paulista Julio Mesquita, São José dos Campos – SP, Brazil*)

S1351 Flexural Strength of Resin Nano-ceramic Material Versus other CAD/CAM Materials. M. PALLU, A. ALAYAD, B. MONTEIRO*, S. MORGANO, R. GIORDANO, II, and C.E. SABROSA (*Universidade do Estado do Rio de Janeiro, Rio de Janeiro, Brazil*)

S1352 Surface Micro-hardness of Methacrylate-based Composites polymerized with LED and QTH. L.-T. TUNG*, K. LAWSON, and C. SABATINI (*State University of New York – Buffalo, USA*)

S1353 Use of CEREC Composite Restorations in Primary Dentition. J. EVENSKY*, J.F. SIMON, and L. DARNELL (*University of Tennessee, Memphis, USA*)

Seq#: 177 Saturday, 24 March 2012, 9:45 a.m. – 11 a.m.
Poster Session, East Hall

Dental Materials: Other Materials – Chemistry, Properties, and Performance

S1354 Dentin Tubule Occlusion with a Novel SnCl₂/NaF/Silica Dentifrice. Y. SHI*, H. CHEN, and L. SUN (*Procter & Gamble Technology (Beijing) Co., Ltd, China*)

S1355 Peroxide Bleaching Effect on Biaxial Strength/Modulus of Bovine Dentin. A. CARVALHO*, A. AYRES, L. DE ALMEIDA, A.L. BRISO, F. RUEGGEBERG, and M. GIANNINI (*Piracicaba Dental School – UNICAMP, Brazil*)

S1356 EDX-depth-profiling Test Method For Mineral Content Study In De/remineralization Processes. M.G. GANDOLFI* (*University of Bologna, Italy*)

S1357 Effects of Alcohol on Force Decay of Elastomeric Chain. K. STEWART*, T. LARRABEE, A. TORRES-GORENA, A. SOTO-ROJAS, and S. LIU (*Indiana University School of Dentistry, Indianapolis, USA*)

S1358 Axial Notch Tear Strength of Alginate Impression Materials. K. VOGT* and S. MEGREMIS (*American Dental Association, Chicago, IL, USA*)

S1359 Biodentine as a Base under CEREC Restorations. A. SHAHLA*, J. SIMON, and L. DARNELL (*University of Tennessee, Memphis, USA*)

S1360 In-Use Peroxide Kinetics of a Hydrogen Peroxide Whitening Dentifrice. B. PUMA*, P.A. SAGEL, and R.W. GERLACH (*Procter & Gamble Company, Mason, OH, USA*)

S1361 Retention of Mini Dental Implant Retained Overdentures. A. CANIZALES, M. BAGBY*, M. RICHARDS, and M. GHALICHEBAF (*West Virginia University, Morgantown, USA*)

S1362 An Approach to Determine the Scannability of Dental Impression Materials. J. FARR*, T. KLETTKE, J. ZECH, and A. THALER (*3M ESPE, Seefeld, Germany*)

S1363 Chromatic analysis of teeth submitted to different antiseptic mouthwashes. P. SOLON-DE-MELLO*, A. MOREIRA, C. MATTOS, and E. SANT'ANNA (*Federal University of Rio de Janeiro, Brazil*)

S1364 Force Required to Displace Pastes and Gels for Gingival Retraction. T. KLETTKE* and C. SCHULTE (*3M ESPE AG, Seefeld, Germany*)

Seq#: 178 Saturday, 24 March 2012, 9:45 a.m. – 11 a.m.
Poster Session, East Hall

Dental Materials: Dental Materials: Instruments and Equipment

S1365 Effect of Preparation Taper on Fit of E4D CAD/CAM Crowns. J. PLOURDE, J. STEIN*, M. HARSONO, M. FINKELMAN, and G. KUGEL (*Tufts University, Boston, MA, USA*)

S1366 Marginal/Internal Crown Fit Evaluation of CAD/CAM versus Press-Laboratory All-Ceramic Crown. G. KUGEL, M. BEYARI, H. LAMFON, M. HARSONO, L. FOX, J. PLOURDE*, E. KAMINSKY, P. STARK, J. TOWERS, and R. PERRY (*Tufts University, Boston, MA, USA*)

S1367 Scanning Experience Affects Fit of E4D CAD/CAM All-Ceramic Crowns. J. PLOURDE, D. NILL*, M. HARSONO, L. FOX, M. FINKELMAN, and G. KUGEL (*Tufts University, Boston, MA, USA*)

S1368 Surface Analysis of Study Models Generated From OrthoCAD and CBCT. K. LIGHTHEART, J.D. ENGLISH, C.H. KAU, J.M. KNOWLES*, H.I. BUSSA JR, K.R. MCGRORY, K.J. MCGRORY, and S. AKYALCIN (*University of Texas – Houston/Health Science Center, USA*)

S1369 Effects of Low-temperature Plasma on Root Dentin Hardness and Elasticity. S. DAKHIL*, P. COELHO, M. JANAL, V. THOMPSON, and N. SILVA (*College of Dentistry, New York University, USA*)

S1370 Effect of Energy on Shear Bond Strength of Bonding Agents. R. PRICE*, J. FERRACANE, C. FELIX, C. AYER, and S. BHATT (*Dalhousie University, Halifax, Canada*)

S1371 Prediction of Clinical Performance for Polymerization Devices with Different Optics-Design. J. GRAMANN, K. SCHEPKE-GERLACH, R. ZERGUINE, and A. SYREK* (*3M ESPE AG, Seefeld, Germany*)

S1372 Efficacy of Different Passive Ultrasonic Irrigation on Smear Layer Removal. F. ABDELMEGID, F. SALAMA, O. BAWAZIR*, and T. ALKHADRA (*King Saud University, Riyadh, Saudi Arabia*)

S1373 Effect of Different Porcelains and Energies on Curing Resin Cement. M. ALSHAAFI*, R. PRICE, M.Q. ALQAHTANI, and C. FELIX (*King Saud University, Riyadh, Saudi Arabia*)

S1374 Effect of Curing Light on the Polymerization of Resin Cement. M.Q. ALQAHTANI*, M.M. ALSHAAFI, R. PRICE, and C. FELIX (*King Saud University, Riyadh, Saudi Arabia*)

S1375 Effect of Curing Light Barrier on Radiant Energy Delivery. J. CHANG*, R. SWORD, and F. RUEGGEBERG (*Georgia Health Sciences University, Augusta, USA*)

S1376 Effect of Curing Light Barrier on Composite Conversion. U. DO*, R. SWORD, and F. RUEGGEBERG (*Georgia Health Sciences University, Augusta, USA*)

S1377 Accuracy of Hand-Held Curing Radiometers. N. YOUNGS*, A. AMIN, R. SWORD, A. FURNESS, and F. RUEGGEBERG (*Georgia Health Sciences University, Augusta, USA*)

S1378 VALIDATING KPG INDEX – 3D CLASSIFICATION SYSTEM FOR CANINE IMPACTIONS. D. SAN MARTIN, J.D. ENGLISH, C.H. KAU, M. MCCLINTOCK*, R. GALLERANO, K.R. MCGRORY, A. SALAS, J. BOUQUOT, and J. XIA (*University of Texas – Houston/Health Science Center, USA*)

S1379 Stiffness and Stress with Nickel-Titanium Rotary File Pitch and Cross-section. A. VERSLUIS*, C.-J. LEE, D.-C. KO, and H.-C. KIM (*University of Tennessee Health Science Center, Memphis, USA*)

- 1380** Performance of Standalone Dental Radiometers for Light Output Check. R. ZERGUINE, J. GRAMANN, S. HERTLEIN, and D. KRUEGER* (*3M ESPE, Seefeld, Germany*)
- 1381** Flexibility and Cutting Ability of Stainless Steel Endodontic Instruments. J. WAN*, J. GUZMAN, B. MUSIKANT, and A. DEUTSCH (*Essential Dental Systems, South Hackensack, NJ, USA*)
- 1382** Method for Measuring Dynamic Extraction Force of Test-Mandrel from Dental-Handpiece. H. LUKIC*, S. MEGREMIS, J. ANGLIN, and H. SHEPELAK (*American Dental Association, Chicago, IL, USA*)
- 1383** System for the Characterization of Dental Air Turbine Handpieces. D. HALPIN*, H. LUKIC, V. ONG, and S.J. MEGREMIS (*American Dental Association, Chicago, IL, USA*)
- 1384** Simultaneous Measurement of Polymerization Shrinkage and Elastic Modulus Development. M. CHIANG*, A.A. GIUSEPPE, N. LIN, G. SCHUMACHER, and S. LIN-GIBSON (*National Institute of Standards and Technology, Gaithersburg, MD, USA*)

Seq#: 179 Saturday, 24 March 2012, 9:45 a.m. – 11 a.m.
Poster Session, East Hall

Diagnostic Sciences – Diagnostic Sciences III

- 1385** Assessment of traumatic injuries using swept-source optical coherence tomography. Y. NAKAJIMA*, Y. SHIMADA, M. MIYASHIN, Y. TAKAGI, J. TAGAMI, and Y. SUMI (*Tokyo Medical & Dental University, Japan*)
- S1386** Comparison of Imaging Methods for Recording Developmental Defects of Enamel. J. WINGATE*, M. MURALI, C. WAGNER, L.A. KING, B.W. HOLLIS, T.C. HULSEY, and S. REED (*Medical University of South Carolina, Charleston, USA*)
- S1387** Distribution of condyle bone mineralization in temporomandibular joint disorder patients. A. HANSEN*, J. CHAUDHRY, H. KIM, A. HONG, E. MOON, and D.-G. KIM (*Ohio State University, Columbus, USA*)
- 1388** Validity and Reliability of Joint Vibration Analysis in TMJ Assessment. R. MIER*, R. KULICH, M. FINKELMAN, and N. MEHTA (*Tufts University, Boston, MA, USA*)
- 1389** Caries Prevalence in Tobacco Using Patients in a Dental School. S. CHITRE*, J. LOEWEN, B. SHAMO, and M. SAVAYA (*University of Detroit Mercy, MI, USA*)
- 1390** Clinical survey of dentin hypersensitivity-like toothache induced by steroid therapy. Y. ENDO*, M. IKUBO, N. SHOJI, T. ISHII, H. HARIGAE, M. SAKAMOTO, and T. SASANO (*Tohoku University Graduate School of Dentistry, Sendai, Japan*)
- 1391** A Comparison of Technique Errors using Two Intraoral Receptor Devices. S. MAURIELLO*, Q. TANG, B. JOHNSON, and E. PLATIN (*University of North Carolina, Chapel Hill, USA*)
- 1392** Inter-Examiner Clinical Tooth Color Reproducibility with Digital Image Analysis. M. SINGH, K. HATZIPETROU*, E. TZAVARAS, S. SUNDARALINGAM, A. PAPAS, M.K. ANASTASIA, M.E. RUBUSH, and R. GERLACH (*Tufts University, Boston, MA, USA*)
- 1393** Image Analysis of Overnight Natural Plaque Accumulation: Intraoral Distribution. S. SUNDARALINGAM*, M. SINGH, E. TZAVARAS, A. PAPAS, R. CHENG, A. WALANSKI, and R. GERLACH (*Tufts University, Boston, MA, USA*)
- 1394** Investigation of Acid-Etched CO₂ Laser-Ablated Enamel Surfaces Using Polarization-Sensitive OCT. B.J. NAHM*, K. CHAN, H. KANG, and D. FRIED (*University of California – San Francisco, USA*)

- 1395** Tomographic Condylar Position Changes Using Two Different Anterior Deprogrammers. P. FLOREZ, M. QUINTANA, P. CRISTO, and A. OCAMPO* (*Fundación Centro de Investigaciones y Estudios Odontológicos CIEO, Bogotá, Colombia*)
- S1396** Rapid Assessment of the Severity of Caries Lesions for SS-OCT. R. LEE*, H. KANG, D. FRIED, and C. DARLING (*University of California – San Francisco, USA*)
- S1397** Three Intraoral Radiographic Receptor-Positioning Systems: A Comparative Study. Q. TANG*, S. MAURIELLO, E. PLATIN, and J. LUDLOW (*University of North Carolina, Chapel Hill, USA*)

Seq#: 180 Saturday, 24 March 2012, 9:45 a.m. – 11 a.m.
Poster Session, East Hall

Behavioral, Epidemiologic, and Health Services Research – Behavioral, Epidemiologic, and Health Services Research VI

- S1398** Understanding Dental Knowledge of Parents in the Villages of Honduras. M. TABATABAI* and T. CULBREATH (*Howard University, Washington, DC, USA*)
- 1399** Oral health challenges for parents of children with feeding difficulties. S. YAMAMOTO*, C. HUEBNER, K. LY, A. REEVES, and P. MILGROM (*University of Washington, Seattle, USA*)
- S1400** The Mental-Dental Connection for Seattle's Homeless Youth: An Exploratory Study. A. VANCE* and D. CHI (*University of Washington, Seattle, USA*)
- 1401** Identifying Barriers in Seeking Care Among Low-Income Minority Adolescents. C. BROWN*, K.T. SIBILLE, H.N. LOGAN, and F.A. CATALANOTTO (*University of Florida, Gainesville, USA*)
- S1402** Oral Health Conditions of Institutionalized Elderly with Mental Disorders. T. COELHO*, H.J. MENDES, J.R. BASTOS, M. CALDANA, R.S. BASTOS, F.S. CARVALHO, A. XAVIER, and R. BASTOS (*University of São Paulo, Bauru Dental School, Brazil*)
- S1403** Assessment of Convenience of *Glycyrrhiza uralensis* Lollipops for Caries Reduction. H. GUENTHER*, J. WARREN, C. TWOHIG, and D. DRAKE (*University of Iowa, Iowa City, USA*)
- 1404** Are parents struggling or coping with their children's dental fear? M. HEIMA*, S. PARK, J. PICKRELL, F. GHASSEMI, M. CHIANG, T. RANGINWALA, and G. FERRETTI (*Case Western Reserve University, Cleveland, OH, USA*)
- 1405** knowledge and practices of oral hygiene among children's parents Riyadh. M. ALSHEHRI, A. ALADSANI*, and A. ALHOKAIL (*Student, Riyadh Colleges of Dentistry and Pharmacy, Saudi Arabia*)
- S1406** Factor Analysis of the Brazilian Version of Dental Fear Survey. M. OLIVEIRA*, M.P. VALE, S. PAIVA, C. BENDO, P.A.D. OLIVEIRA, and J. SERRA-NEGRA (*Universidade Federal de Minas Gerais, Belo Horizonte, Brazil*)
- S1407** Association Between Toothache and Physician Diagnosis at Emergency Departments. A. SZABO, S. MONTES*, L. GILLESPIE, Q. XIANG, and C. OKUNSERI (*Marquette University, Milwaukee, WI, USA*)
- 1408** Cost-Effectiveness of Preventive Oral Health Services in Pediatric Medical Offices. S. STEARNS, R.G. ROZIER, A. KRANZ*, B. PAHEL, and R. QUIÑONEZ (*University of North Carolina, Chapel Hill, USA*)
- S1409** The Prevalence of Musculoskeletal Disorders Among Dental Workers in Kuwait. F. ALRAYES*, A. AL-KHABBAZ, M. FINKELMAN, R. O'NEILL, and T. GRIFFIN (*Tufts University, Boston, MA, USA*)

1410 Quality of life: use of dentures in elderly, Bauru, Brazil. M. CALDANA*, J.R. BASTOS, R. BASTOS, A. ARAKAWA, A. XAVIER, A. OLIVEIRA, C. SANTO, M. FRANÇA, and E. FRANCO (*University of São Paulo, Bauru Dental School, Brazil*)

1411 Periodontal Disease and Health Condition in a Student Population. L.A. AGUILERA GALAVIZ*, C.Y. DÍAZ ROSAS, M.E. HERNANDEZ MONTOYA, and M.D.C. ACEVES MEDINA (*University of Zacatecas, Mexico*)

S1412 Beliefs and Fears about Dental Care in an Emergency Clinic. C. RANDALL*, D. MCNEIL, and R. STUCHELL (*West Virginia University, Morgantown, USA*)

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Poster Session, East Hall

Cariology Research – Demin/Remineralization – Cariology: Demineralization and Remineralization Studies II

1413 DMP-1 and DSPP in human sclerotic dentin: an immunohistochemical analysis. A. TRIRÉ, F. NATO, V. SALVATORE, G. TETI, A. MAZZONI, L. BRESCHI, and A. RUGGERI* (*University of Bologna, Italy*)

1414 Experimental Fluoride Dentifrices Containing Xylitol: In Vitro Root Caries Formation. F. GARCIA-GODOY, J. HICKS, C. FLAITS, and L. KAO* (*LMKAO LLC, New York, NY, USA*)

1415 Effect of pH on Remineralization Efficacy of Over-the-counter Fluoride Mouthrinses. D. SHARMA*, C. GONZALEZ-CABEZAS, D. RICCI-NITTEL, and J. EDER (*Johnson & Johnson Consumer & Personal Products Worldwide, Skillman, NJ, USA*)

1416 Remineralizing Effect of Alcohol-free Fluoridated Essential Oil Containing Mouthrinses. C. CADRA*, R. KARLINSEY, A.C. MACKAY, and R. MIFSUD (*Johnson & Johnson Consumer Companies, Inc, Morris Plains, NJ, USA*)

1417 Evaluation of Fluoride Rinses Employing an *in vitro* Remineralization/Demineralization Model. E. ENGELMAN*, F. PASCAL, S. SATTAR, B. SCHEMEHORN, and R. GAMBOGI (*Johnson & Johnson Consumer Companies, Inc, Skillman, NJ, USA*)

S1418 Efficacy of fluoride products in preventing demineralization of root surfaces. C. SCHILTZ*, J. KOLKER, J. WEFEL, C. KUMMET, M. HOGAN, D. DAWSON, and J. HARLESS (*University of Iowa, Iowa City, USA*)

1419 Effect on Sucrose/Fluoride Variations for Enamel Demineralization using Microbial Caries-model. E. KOHARA, R. ARTHUR, G. ECKERT, D. ZERO, and M. ANDO* (*Indiana University, Indianapolis, USA*)

S1420 Effect of Proteoglycans and Poly-L-aspartic Acid on Dentin Remineralization. S. SCHNEIDER*, B. AYDIN, A. GEORGE, and A.K. BEDRAN-RUSSO (*University of Illinois – Chicago, USA*)

S1421 Effects of Different Remineralization Methods on Artificial Early Enamel Lesions. Z. KUTUK*, E. FIRAT, and S. GURGAN (*Hacettepe University, Faculty of Dentistry, Ankara, Turkey*)

S1422 New Technologies to Prevent Root Caries Lesion. C. LEPRI*, V. GERALDO-MARTINS, J. FARAONI-ROMANO, and R. PALMA-DIBB (*University of São Paulo, Ribeirão Preto, Brazil*)

1423 The Efficacy of Fluoride-releasing Sealant in Controlling Demineralization around Brackets. R. MARQUEZ*, E.A. SANTIAGO PAGAN, J. LLOP, J.E. LOPEZ, A. ELÍAS-BONETA, C. TORO-VIZCARRONDO, and S. RIVAS-TUMANYAN (*University of Puerto Rico-MS-C, San Juan, USA*)

S1424 Influences Of Nucleation Lag Time On Remineralization Of Demineralized Dentin. S.Y.P. HSIAO*, G. MARSHALL, K. SAEKI, and S.F. HABELITZ (*University of California – San Francisco, USA*)

Seq#: 182 Saturday, 24 March 2012, 9:45 a.m. – 11 a.m.
Poster Session, East Hall

Cariology Research – Detection, Risk Assessment and Others – Cariology: Caries Detection and Risk Assessment

S1425 Towards an Automated Caries Detection System Using Intra-Oral Photographs. L. GHAEDI*, R. GOTTLIEB, and K. NAJARIAN (*Virginia Commonwealth University – VCU/MCV, Richmond, USA*)

1426 Laser fluorescence measurements of residual dentin in excavated cavities. A. BRAUN*, M. BERTHOLD, R. FRANKENBERGER, and F. KRAUSE (*University of Marburg, Germany*)

1427 Correlation Between Dental Restoration Materials and Lesions with Secondary Caries. I. WILLERSHAUSEN*, A. ROSS, B. BRISENO MARROQUIN, and B. WILLERSHAUSEN (*University of Mainz, Germany*)

S1428 Validation of a Risk Assessment Form. A. ALAVANJA*, A. FERREIRA ZANDONA, and G.J. ECKERT (*Indiana University, Indianapolis, USA*)

S1429 Clinical Salivary pH Vs. Laboratory Buffering Capacity: A Comparison. A. SWARN*, R. EIDSON, T. DONOVAN, R. ARNOLD, E. SIMMONS, and A. RITTER (*University of North Carolina, Chapel Hill, USA*)

1430 IgA Antibodies to SBR of *Streptococcus mutans* in Young Children. M. SALAM*, H. OUEIS, C. ZEITZ, M. GLEASON, and M. O'REGAN (*University of Detroit Mercy, MI, USA*)

S1431 Knowledge Of German Pediatricians About Early Childhood Caries. R. SCHILKE*, F.B. FELGENHAUER, and W. GEURTSSEN (*Medical University of Hannover, Germany*)

Seq#: 183 Saturday, 24 March 2012, 9:45 a.m. – 11 a.m.
Poster Session, East Hall

Implantology Research – Implant-supported Protheses/Imaging Techniques for Host Bone or Interface Evaluation

1432 Patient's satisfaction of implant single-tooth replacements in anterior maxilla. M. BONAKDARCHIAN* (*ACTA – Vrije Universiteit, Isfahan, Iran*)

1433 Retentive Characteristics of Narrow-Diameter Implant-Retained Overdentures after Fatigue Loading. M. GUSTAFSON, D. CHAN, and K.-H. CHUNG* (*University of Washington, Seattle, USA*)

1434 Success Rate of Dental Implant Therapy by Novice General Dentist. H. MALMSTROM*, A. KOTA, S. MALIK, J. GARAIKOA, J. XIAO, G. ROMANOS, R. CACCIATO, and Y. REN (*Eastman Institute for Oral Health, Rochester, NY, USA*)

S1435 Comparison Of Peri-implant Bone Level In Augmented And Pristine Bone. H.-Y. HUANG*, Y. OGATA, Y. HUR, and T. GRIFFIN (*Tufts University School of Dental Medicine, Boston, MA, USA*)

S1436 Quantification of edentulous jaw bones using cone-beam computed tomography images. R. WANG, Y.-H. HUANG*, J. FAN, and L. LANG (*Case Western Reserve University, Cleveland, OH, USA*)

1437 Photoelastic Analysis Of Stress Distribution Implant Frameworks in Cr-Co. M.A. NÓBILO*, G. CASSARO, M. SERRA E SILVA, B. PEREIRA, R. CONSANI, G. PESSANHA HENRIQUES, and M. MESQUITA (*University of Campinas, Piracicaba, SP, Brazil*)

1438 Paper Withdrawn

1439 Retention Of Overdentures Supported By Two Different Implant Systems. C. SOTO, A. PARRADO, J.M. YEPES, G. ARDILA, G. LOBELO*, and J.R. RIVERA

(*Fundación Centro de Investigación y Estudios Odontológicos-CIEO, Bogotá, Colombia*)

S1440 Photoelastic Analysis of Stresses Transmitted by Implant Supported Adjacent Crowns. F.A. DE AGUIAR, Jr.*, R. TIOSSI, A.P. MACEDO, M.G.C. DE MATTOS, R.F. RIBEIRO, and R.C.S. RODRIGUES (*Universidade de São Paulo, Ribeirão Preto, Brazil*)

S1441 Photoelastic and mechanical analyses of welded cp titanium implant-supported frameworks. M. SERRA E SILVA*, B. PEREIRA, G. CASTRO, J. TAKAHASHI, G. PESSANHA HENRIQUES, R. CONSANI, M. MESQUITA, and M. NOBILO (*University of Campinas, Piracicaba, SP, Brazil*)

1442 Bone-crest height after maxillary implants in individuals with different deoxypyridinolinuria/creatinuria. L. GUEVARA, S. PINZON, Z. ZAMBRANO, and B. CEPEDA* (*CIEO University, Bogota, Colombia*)

S1443 Stress distribution and mechanical strength of NiCrTi welded implant frameworks. B. PEREIRA*, M. SERRA E SILVA, G. CASSARO, J. TAKAHASHI, R. CONSANI, G. PESSANHA HENRIQUES, M. MESQUITA, and M. NOBILO (*University of Campinas, Piracicaba, SP, Brazil*)

1444 Microscopic Imaging and Chemical Analysis of Separated Implant-Bone Surfaces. B. ONDOCSIN*, J. LEMONS, D. GIVAN, and D. KOJIC (*University of Alabama, Birmingham, USA*)

Seq#: 184 Saturday, 24 March 2012, 9:45 a.m. – 11 a.m.
Poster Session, East Hall

Oral Health Research – Dentifrice, Mouthrinses, Antimicrobial Agents

1445 An In-Vitro Tubule Occlusion Model. B. SCHEMEHORN, A. HAIDER*, and P. QUADROS (*Therametric Technologies, Inc, Noblesville, IN, USA*)

1446 Instant and Rapid Sensitivity Relief of a Stannous Containing Dentifrice. L. NI, T. HE, J. CHANG, Y. HE, and L. SUN* (*P&G, Beijing, China*)

1447 Study To Asses The Anti-Plaque Efficacy Of Two Marketed Dentifrices. M. CRONIN*, T. HE, H. EYNON, M. MINER, M.L. BARKER, and M. SCHADT (*TKL Research, Inc, Ramsey, NJ, USA*)

1448 Superior Plaque Reduction Efficacy of a Stannous Fluoride Dentifrice. N. SHARMA*, J. QAQISH, T. HE, M. BARKER, M. MINER, H. EYNON, and A. BIESBROCK (*BioSci Research America, Inc, Las Vegas, NV, USA*)

S1449 Overnight Anti-Plaque Benefits of Two Marketed Dentifrices using DP1A. I.M. TSAKNAKI, A. ALHAFNE*, C. ERBE, M. KLUKOWSKA, M. BARKER, H. TIMM, C. JACOBS, and H. WEHRBEIN (*University Medical Centre Mainz, Germany*)

1450 Clinical Anti-plaque Efficacy of a Novel 0.454% Stannous Fluoride Dentifrice. M. WYSS*, T. HE, V. WIDMEYER, M. MINER, and M. BARKER (*Fidelis Clinical Research, Columbus, OH, USA*)

1451 Plaque Viability Comparison Of 3 Commercial Dentifrices. T. TRIRATANA, V. BARNES*, J. CHUNG, R. RICHTER, L. DU-THUMM, and W. DEVIZIO (*Colgate-Palmolive Company, Piscataway, NJ, USA*)

S1452 Effect of Fluoride Varnish on Oral Symptoms During Chemotherapy . S. BANAVA, M. HAKAK, T. SAFAIE*, R. MALAYERI, and M.J. KHARRAZIFARD (*Islamic Azad University Dental Center, Tehran, Iran*)

S1453 Anti-microbial effect of Selenium impregnated elastomeric ligatures in orthodontic patients. S. GROVER*, F. URIBE, P. DIAZ, W. NEACE, A. YADEGARI, and R. NANDA (*University of Connecticut, Farmington, USA*)

1454 Clinical Anti-plaque Efficacy of a 0.1% CPC Mouthrinse. R. CHENG*, A. WALANSKI, R. GERLACH, J. WITT, and M. WYSS (*Procter & Gamble Company, Mason, OH, USA*)

1455 In-vivo Anti-Microbial Effects of a 0.1% CPC Rinse. N. GURICH*, R. GRAYLING, M. FRIBERG, and J. WITT (*Procter & Gamble, Mason, OH, USA*)

1456 Randomized Controlled Trial of 0.1% CPC Rinse on Gingival Bleeding. C. GARCIA-GODOY*, J. ROTHROCK, V. MONZON, R. CHENG, J.J. WITT, and R. GERLACH (*Nova Southeastern University, Ft. Lauderdale, FL, USA*)

1457 Positive and Negative-Controlled Trial of 0.1% CPC Rinse on Breath. J.J. WITT*, R. CHENG, A. WALANSKI, and R. GERLACH (*Procter & Gamble Company, Mason, OH, USA*)

1458 Plaque Glycolysis Response to Cetylpyridinium Chloride Antimicrobial Mouthrinses. F. GARCIA-GODOY, M. KLUKOWSKA, Y. ZHANG*, L. JOHNSON, L. DARNELL, M. ANASTASIA, R. CHENG, V. WIDMEYER, and D. WHITE (*University of Tennessee, Memphis, USA*)

Seq#: 185 Saturday, 24 March 2012, 9:45 a.m. – 11 a.m.
Poster Session, East Hall

Mineralized Tissue – Bone, Periodontal Ligament, and Stem Cell Biology

S1459 Aging Bone: Age Effects on Osteocyte Lacunar and Canalicular Microarchitecture. B. BILLINGS*, M. STERN, C. BERGMAN, T. REGISTER, and A. STERN (*University of Missouri -Kansas City, USA*)

1460 Evaluating Bone Regeneration and Angiogenesis in 1393B3 Bioactive Glass Scaffolds. Z. BROWN*, L. BI, D. DAY, M. RAHAMAN, and L. BONEWALD (*University of Missouri – Kansas City, USA*)

1461 Odontogenic Stem Cells in Pharyngeal Dentition of Teleost Fish Medaka. D. ABDUWELI* and Y. TAKANO (*Tokyo Medical & Dental University, Japan*)

S1462 Changes in Tooth Chemical Structure Following Radiotherapy. C. XU*, M.P. WALKER, R. REED, J. GORSKI, K. WILLIAMS, Y. LIU, and Y. WANG (*University of Missouri - Kansas City, USA*)

S1463 HIV/AIDS Associated Bone Loss. T. GULATI*, J. SHWER, B. HU, Y. JUWAYEYI, J. CHISI, and T. BROMAGE (*New York University, USA*)

S1464 Hydroxyapatite-Binding Domains Direct Anchoring Of Osteoinductive Peptides To Bone Grafts. J. BAIN*, B. CULPEPPER, M. REDDY, and S. BELLIS (*University of Alabama at Birmingham, Pelham, USA*)

S1465 Enhancement of Rat MSC Capabilities by Intracellular Release of Estradiol. N. BENASSI*, Y. YU, V. JOSHI, N. WEI, A. SALEM, and L. HONG (*University of Iowa, Iowa City, USA*)

1466 Are stem cells effective in regeneration of mineralized tissues?. K. REZENDE*, T. GIMENEZ, M.M. BRAGA, F.M. MENDES, A. MANTESSO, and M. BÖNECKER (*University of Sao Paulo, Brazil*)

S1467 Invasion of Blood Vessels into Cartilage Implanted into Skull Defects. A. MENCHACA*, L. DOAN, H. LUONG, T. WOERNLEY, and P.J. DUKE (*University of Texas – Houston/Health Science Center, USA*)

1468 Effect of BMP6 on Osteogenesis of Dental Follicle Stem Cells. S. YAO*, H. HE, D. GUTIERREZ, M. REZAI RAD, D. LIU, and G. WISE (*Louisiana State University, Baton Rouge, USA*)

S1469 Fusion between Cartilage Nodules Differentiated in a Rotating Bioreactor. T. WOERNLEY*, L. DOAN, H. LUONG, A. MENCHACA, and P.J. DUKE (*University of Texas – Houston/Health Science Center, USA*)

1470 Ordered Fluorapatite Stimulates DPSC Mineralization and Related Osteogenesis Profile Analysis. X. WANG*, T. JIN, S. CHANG, Z. ZHANG, A. CZAJKA-JAKUBOWSKA, J.E. NÖR, B.H. CLARKSON, L. NI, and J. LIU (*Fourth Military Medical University, Xi'an, China*)

S1471 Growth and Co-culture of Endothelial Cells on Ordered Fluorapatite Surfaces. X. WANG, Z. ZHANG, S. CHANG, A. CZAJKA-JAKUBOWSKA, J. NÖR, B.H. CLARKSON, and J. LIU* (*University of Michigan, Ann Arbor, USA*)

1472 Biochemical Changes and Structural Responses in a Periodontitis Model. J. FONG, J. LIN, T. ZINK, Y. ZHANG, M. RYDER, A. JANG*, and S.P. HO (*University of California – San Francisco, USA*)

Seq#: 186 Saturday, 24 March 2012, 9:45 a.m. – 11 a.m.
Poster Session, East Hall

Microbiology / Immunology – *Candida*

1473 Antifungal Efficacy of Citrus Fruit Flavonoids Against *Candida albicans* Biofilms. D.J. KOBRIC*, A. SYED, H.C. TENENBAUM, and C.M. LEVESQUE (*University of Toronto, Canada*)

S1474 Comparing Identification Methods of *Candida albicans* and *Candida dubliniensis*. R. PICKEI*, P.E. GRAVES, M.L. HERRERA, W.R. KIRKPATRICK, T.F. PATTERSON, and S.W. REDDING (*University of Texas – San Antonio / Health Science Ctr, USA*)

S1475 Suppression of *Candida albicans* Growth by Oral *Staphylococcus aureus*. P. KAINTHLA* and F. QI (*University of Oklahoma Health Sciences Center, Oklahoma City, USA*)

1476 Photodynamic Inactivation of *Candida* spp., *Trichosporon mucoides* and *Kodamaea ohmeri*. J. JUNQUEIRA*, A. JORGE, J. BARBOSA, R. ROSSONI, S. VILELA, A. COSTA, F. PRIMO, A. TEDESCO, and J. SULEIMAN (*Universidade Est. Paulista Julio Mesquita, São José dos Campos, São Paulo, Brazil*)

1477 Oral Antimicrobial Bandage: Effect on *S.mutans* and *C.albicans*. M.A.A.M. MACHADO*, S. COSTA, A.L. SILVA, T. OLIVEIRA, D. RIOS, S.M.B. SILVA, and H.M. HONÓRIO (*Bauru School of Dentistry – University of São Paulo, Bauru-SP, Brazil*)

S1478 A new method for *in vitro* *Candida* biofilm formation. R. MURATA*, M. CASTRO, D. MALAMUD, and S. DUARTE (*New York University, USA*)

1479 Adhesion of *Candida Albicans* to Different Denture Acrylic Materials. M. CAMPILLO-FUNOLLET*, A.R. YAZICI, S. ANTONSON, P. MCCABE, J. CHURIK, A. SKIERCZYNSKI, L. MIKULSKI, D. ANTONSON, and C. MUNOZ-VIVEROS (*State University of New York – Buffalo, USA*)

Seq#: 187 Saturday, 24 March 2012, 9:45 a.m. – 11 a.m.
Poster Session, East Hall

Microbiology / Immunology – *Immunology*

1480 Regulation of TLR Signaling in B-Cell Activation and Survival. X. YU*, D. QIU, Z. LI, M. KAJIYA, T. KAWAI, M. TAUBMAN, and X. HAN (*Forsyth Institute, Cambridge, MA, USA*)

S1481 Salivary levels of cytokines in pre-term and fullterm infants. R.D. NOGUEIRA*, M.L.T. SESSO, W. KING, D.J. SMITH, and V.P.L. FERRIANI (*University of Uberaba/ Faculty of Medicine of Ribeirao Preto – University of Sao Paulo, Brazil*)

S1482 Role of IRFs in Virus-Induced IL-23 p19 Promoter in Macrophages. R. BUNDY*, T. PETRO, and T. MOORE (*University of Nebraska, Lincoln, USA*)

S1483 Interleukin-6 production from Theiler's virus-infected macrophages in mice. K. BUSH*, T. MOORE, and T. PETRO (*University of Nebraska, Lincoln, USA*)

S1484 Periodontal Biofilm Microbiota of Patients with Leukocyte Adhesion Deficiency. N. CHALMERS*, B. PASTER, G. UZEL, S. HOLLAND, and N. MOUTSOPOULOS (*University of Maryland Dental School, Baltimore, USA*)

1485 Using WHIM syndrome-like cells to study hBD3 induced CXCR4 internalization. P. BERMUDEZ*, Z. FENG, X. JIA, and A. WEINBERG (*Case Western Reserve University, School of Dental Medicine, Cleveland, OH, USA*)

S1486 Ontogeny of Salivary Human Beta-Defensin-1 and Lactoferrin. A. KENNEDY*, S. GHOSH, C. DEMKO, and A. WEINBERG (*Case Western Reserve University, Cleveland Heights, OH, USA*)

1487 Autoantibody levels correlate with CXCL13 in human Sjogrens Syndrome. J. KRAMER* and T.L. ROTHSTEIN (*The Feinstein Institute for Medical Research, Manhasset, NY, USA*)

S1488 Anti-TACE antibody inhibits age-related and ligature-induced periodontal bone loss. M. SUZUKI*, H. KANZAKI, T. KAWAI, X. HAN, and M. TAUBMAN (*Forsyth Institute, Cambridge, MA, USA*)

S1489 Membrane Associated Mucins in Oral Epithelia. M. NIXON*, D. CULP, D.M. COHEN, and I. BHATTACHARYYA (*University of Florida, Gainesville, USA*)

S1490 High-efficiency Delivery of Antimicrobial mRNAs into Human Mucosal Epithelial Cells. X. ZOU*, K.F. ROSS, and M.C. HERZBERG (*University of Minnesota, Minneapolis, USA*)

1491 Polymorphism in Myeloperoxidase Gene of BRONJ Patients. M. TALIA*, U.D. CHIPPADA, S. PUSHALKAR, A. DEVOTTA, K. FLEISHER, and D. SAXENA (*New York University, USA*)

S1492 Comparison of BaP-induced Mutagenesis in Monolayer and 3-Dimensional Culture Models. L. MOHAMMED*, M. CURRIMBHOY, P. SACKS, and J. GUTTENPLAN (*New York University, USA*)

S1493 CD1a positive DCs and subtypes from inflamed human dental pulps. A.-M. BAENA*, I. PEREZ, L. CARDONA, J. DONADO, and J. DE AVILA (*Fundación Centro de Investigaciones y Estudios Odontológicos -UNICIEO-, Bogotá, Colombia*)

S1494 IL1 expression in CD1a+ DCs from inflamed human dental pulps. J. BERMUDEZ*, D. ZAMBRANO, L. ROSERO, M. LAVERDE, J. DONADO, and J. DE AVILA (*Fundación Centro de Investigaciones y Estudios Odontológicos -UNICIEO-, Bogotá, Colombia*)

S1495 Mechanism Of Induction Of Inflammation During Respiratory Virus Infection. A. SABBABH*, J. SEGOVIA, V. MGBEMENA, S.-Y. TSAI, T.H. CHANG, M.T. BERTON, I.R. MORRIS, and S. BOSE (*University of Texas at San Antonio, USA*)

Periodontal Research – Diagnosis / Epidemiology – Periodontal Disease Diagnosis and Epidemiology

- S1496** Association of Periodontitis with Angiographic Extent of Stable Artery Disease. S.A. HASSANTASH, S.Z. HASSANTASH*, Y. SAMANI, F. GHANAVATI, and G. GHOLAMI (*Shahid Beheshti University, Tehran, Iran*)
- S1497** Periodontal Status of Women with Hypertension in Postpartum—Preliminary Study. C. MARTINS*, L. PEREIRA, V. BASTOS, L. POMARICO, C. SILVA-BOGHOSSIAN, L. FREITAS-FERNANDES, I. SOUZA, and E. FERES-FILHO (*Universidade Federal Do Rio De Janeiro, Rio de Janeiro, Brazil*)
- 1498** Periodontopathogenic bacteria DNA and periodontal condition in bariatric patients. S. SALES-PERES*, P. MOURA-GREC, E. TORRES, M. SALES-PERES, J. MARSIANO, T. DIONÍSIO, C. LEITE, R. CENEVIVA, and A. SALES-PERES (*Faculdade de Odontologia de Bauru – FOB/USP, Bauru – SP, Brazil*)
- S1499** Effects of compression and non-steroidal anti-inflammatory drugs on periodontal fibroblasts. C. JACOBS*, L. NETTELHOFF, T. ZIEBART, C. WALTER, C. ERBE, E. KRIEGER, and H. WEHRBEIN (*University Mainz, Germany*)
- S1500** Alternation of Alveolar Bone Mineral Distribution in Periodontitis Patients. V. ARIAIL*, H.-H. CHIEN, E. JUNG, M.J. LEE, B. TEE, and D.-G. KIM (*Ohio State University, Columbus, USA*)
- 1501** Correlation Between Maxillary Bone Thickness And Facial Height. M.-H. HE*, L. GOBBATO, L. SURI, Y. HUR, and T. GRIFFIN (*Tufts University School of Dental Medicine, Boston, MA, USA*)
- 1502** Measurement of Base of Contact to CEJ in Skulls. R. WITTY, Jr.*, B. O'BRIEN, N. HAN, and S. POLLOCK (*University of Mississippi Medical Center, Jackson, USA*)
- S1503** Measurement of Bone Volume Changes Using Cone-Beam Computed Tomography. E. ZIEGLER*, A. LUND, Y. ZHU, R. DELONG, and M. COSTALONGA (*University of Minnesota, Minneapolis, USA*)
- S1504** Opening of Interproximal Contacts with a Modified Film Holder. N. HODGES, C. HARRIS*, S. POLLOCK, and N. HAN (*University of Mississippi, Jackson, USA*)
- S1505** Prevalence and Distribution of Gingivitis in Teenagers of Campeche, 2011. L. HERRERA*, M.A. ZAZUETA, and A.E. SÁNCHEZ (*Universidad Autónoma de Campeche, Mexico*)
- S1506** Infection Patterns in Chronic and Aggressive Periodontitis. A. HWANG*, R. CELENTI, J. STOUPEL, D. WOLF, R.T. DEMMER, and P.N. PAPAPANOU (*College of Dental Medicine, Columbia University, New York, NY, USA*)

Periodontal Research – Pathogenesis – Periodontal Pathogenesis and Molecular Mechanisms

- 1507** Effects of Periodontal Treatment on Adipokine Levels in Non-Smokers. A. PALAIOLOGOU*, T. LALLIER, D. STOUTE, and M. BALA (*Louisiana State University, New Orleans, USA*)
- 1508** Circulating Levels of Adipocytokines in Non-Obese Subjects with Chronic Periodontitis. P.M. DUARTE*, T.E.D. GONÇALVES, M.F. BASTOS, and G.S. ZIMMERMANN (*Guarulhos University, Brazil*)

- S1509** Mechanism of cyclosporin A- induced gingival overgrowth. L.A. STAUDINGER*, S.J. SPANO, W. LEE, T. MORIARTY, and C.A. MCCULLOCH (*University of Toronto, Canada*)
- 1510** EGCG Inhibits TNF -Induced NF B Activation in Nicotine Treated Epithelium. J. SHANGO* and M. WHEATER (*University of Detroit Mercy, Bloomfield Hills, MI, USA*)
- S1511** Gender Differences in Apoptosis Biomarkers Within Normal and Diseased Gingiva. J. WIKLE*, R. JOHNSON, and F. SERIO (*University of Mississippi Medical Center, Jackson, USA*)
- 1512** Monocyte Phagocytosis and Loss of Periodontal Attachment In Down Syndrome. A. KHOCHT*, B. RUSSELL, J. CANNON, B. TURNER, and M. JANAL (*Temple University, Philadelphia, PA, USA*)
- 1513** Interleukins in GCF in Patients with Definitive Full Coverage Restorations. K.-C. CHANG*, L.C. JACOBS, and M. WHEATER (*University of Detroit Mercy School of Dentistry, Southfield, MI, USA*)
- S1514** MMP-7 Cleavage of Fetuin Inhibits Control of Mineralization. K. D'COSTA*, R. REZAEI, H. TENENBAUM, and C.A. MCCULLOCH (*University of Toronto, Canada*)
- S1515** Role of Discoidin Domain Receptor 1 in Collagen Fiber Reorganization. S. SPANO*, L.A. STAUDINGER, W. LEE, T. MORIARTY, and C. MCCULLOCH (*University of Toronto, Canada*)
- 1516** Analysis of lysophosphatidic acid signaling in periodontal ligament. T. ARAKAWA*, M. OKAYAMA, N. OBARA, A. SHITARA, I. MIZOGUCHI, and T. TAKUMA (*Health Sciences University of Hokkaido, Japan*)
- S1517** Differential Extraction of the Gingival Fibroblast Nuclear Membrane Proteome. H. MCKNIGHT*, T. HART, D. TATAKIS, and A. MARIOTTI (*Ohio State University, Columbus, USA*)
- S1518** Cartilage oligomeric matrix protein (COMP) induction in periodontal ligament fibroblasts. M. RODEN*, M. PALLERO, O. MAMAEVA, M. MACDOUGALL, and J. MURPHY-ULLRICH (*University of Alabama at Birmingham, USA*)
- S1519** Nifedipine Induces Expression of Periostin and SMA in Gingival Tissue. S. KIM*, L. JACKSON-BOETERS, M. DARLING, M. RIEDER, and D. HAMILTON (*University of Western Ontario, London, Canada*)
- S1520** Tristetraprolin is Essential to Maintain Alveolar Bone Homeostasis. B. HERBERT*, M. GRAY, Q. LI, H. YU, and K. KIRKWOOD (*Medical University of South Carolina, Charleston, USA*)
- S1521** Healthy PDLF Cells Influence Diseased PDLF Inflammatory Response. M. CHANA*, H. ELMEHDAMI, A. ELAWADY, V. MCCLOUD, P. LOCKWOOD, J. LEWIS, and R. MESSER (*Georgia Health Sciences University, Augusta, USA*)
- S1522** NFkB Signaling in Periodontal Ligament Fibroblasts Isolated from Diseased Sites. H. SWEARINGEN*, A. ELAWADY, P. LOOKWOOD, V. MCCLOUD, J. LEWIS, and R. MESSER (*Georgia Health Sciences University, Augusta, USA*)
- 1523** Sequential Multiplex Analyte Capturing for the quantification of GCF biomarkers. L. MARTIN, M. FAVERI, A. CEKICI, and R. TELES* (*Forsyth Institute, Cambridge, MA, USA*)

NOTE: * = Presenting Author
S prior to the presentation number indicates Student Presenter

All scientific sessions are located at the Tampa Convention Center.

Seq#: 190 Saturday, 24 March 2012, 9:45 a.m. – 11 a.m.
Poster Session, East Hall

Periodontal Research – Therapy – New Approaches to Treat Periodontal Diseases

S1524 Treatment of experimental periodontal disease using aPDT with nanoparticles. V.C.N. NOVAES*, L.H. THEODORO, D.M. ZECELL, M. LONGO, L.A. FERNANDES, J. ALMEIDA, S.J.L. RIBEIRO, and V.G. GARCIA (*Univ. Estadual Paulista – UNESP, Araçatuba-SP, Brazil*)

S1525 Cranberry Component Inhibition of IL-17-stimulated Cytokine Production by Gingival Cells. S. CHO* and D. TIPTON (*University of Tennessee, Memphis, USA*)

S1526 Chemically Modified Curcumin Normalizes Chronic Inflammation in Diabetic Rats. M. CLEMENS*, N. NAPOLITANO, Y. ZHANG, F. JOHNSON, H.-M. LEE, L. GOLUB, and Y. GU (*State University of New York – Stony Brook, USA*)

S1527 Novel Curcumin Derivatives Suppress Inflammatory Mediators in Periodontally-relevant Cells. N. NAPOLITANO*, M. CLEMENS, H.-M. LEE, Y. ZHANG, F. JOHNSON, L. GOLUB, and Y. GU (*State University of New York – Stony Brook, USA*)

S1528 Chemically-Modified-Curcumin Inhibit Alveolar Bone Loss in Diabetic Rats with Periodontitis. M. ELBURKI*, H. LEE, N. GUPTA, P. BALACKY, Y. ZHANG, F. JOHNSON, Y. ZHANG, and L. GOLUB (*State University of New York – Stony Brook, USA*)

S1529 A Novel Chemically-Modified Curcumin (CMC2.24) Improves Diabetic Wound-Healing. H.W. YU*, Y. ZHANG, Y. ZHANG, H.-M. LEE, S. MCCLAIN, F. JOHNSON, and L. GOLUB (*State University of New York – Stony Brook, USA*)

S1530 Effects of Calendula officinalis on Human Gingival Fibroblasts. P. SAINI, N. AL-SHIBANI, K. GREGSON, and L.J. WINDSOR* (*Indiana University Purdue University at Indianapolis, USA*)

S1531 NANOSPHERE-RELEASED TETRACYCLINES INHIBIT MMP ACTIVITY OF HUMAN GINGIVAL FIBROBLASTS. K. FENG, Q. JIN, A. PLONKA*, A. TAUT, W. GIANNOBILE, and P. MA (*University of Michigan, Ann Arbor, USA*)

S1532 Sequential Drug Delivery System Designed as a Potential Periodontitis Treatment. S. SUNDARARAJ*, M. THOMAS, T. DZIUBLA, and D. PULEO (*University of Kentucky, Lexington, USA*)

S1533 The Effects of the Probiotic, *Lactobacillus reuteri*, on Experimental Gingivitis. L. TRAN, C. FLAITZ*, T. RIGNEY, G. TRIBBLE, and J. KATANCIK (*University of Texas at Houston, USA*)

S1534 *Baccharis dracunculifolia* DC Mouthrinse For Dental Biofilm Control. Clinical Evaluation. J. OLIVEIRA-NETO*, R.C. TAVARES, S. SATO, and V. PEDRAZZI (*FORP-USP, Ribeirão Preto, Brazil*)

Seq#: 191 Saturday, 24 March 2012, 9:45 a.m. – 11 a.m.
Poster Session, East Hall

Pharmacology/Therapeutics/Toxicology

S1535 Fluorescein Chemistry and Measurement of Dental Plaque. N. LI, Z. MENGJIAN, D. HAMLIN, L. WONG, and J. HEFFERREN* (*University of Kansas – Lawrence, USA*)

S1536 Clinical Evaluation of a Mouthrinse for Xerostomia. O. SHIBLY*, M. BESSINGER, S.B. LAW, A. HO, and S.G. CIANCIO (*State University of New York – SUNY – Buffalo, USA*)

S1537 Analysis of Plaque Accumulation. L. WONG*, D. HAMLIN, and J. HEFFERREN (*Odontex, Inc, Lawrence, KS, USA*)

S1538 Fluoride Concentrations in Regular and Decaffeinated Teas. J. STREVER*, G. WHITFORD, and A. ARUN (*Georgia Health Sciences University, Augusta, USA*)

S1539 Dentin Hypersensitivity Reduction Efficacy of a Dentifrice Containing 5% KNO₃. F. AYAD, L. MATEO, M. VANDEVEN, D. CUMMINS, E. DELGADO*, Y.-P. ZHANG, and W. DEVIZIO (*Colgate -Palmolive Technology Center, Piscataway, NJ, USA*)

S1540 Benzo(a)pyrene Metabolism by Rat Mammary Epithelial and Fibroblast Cells. M. CURRIMBOHY* and J. GUTTENPLAN (*New York University, USA*)

S1541 Effects of TRPV1 Agonists/Antagonists on OSCC are Independent of TRPV1 Interactions. M. KUSBEL*, J. DE LA CHAPA, and C. GONZALES (*University of Texas – San Antonio / Health Science Ctr, USA*)

S1542 Prevalence of VSCs and Efficacy of Ozone to Reduce VSCs. D. BUCKLEY, E. LYNCH*, and M. GROOTVELD (*University of Warwick, United Kingdom*)

S1543 Morphine Reduces Leukocyte Migration in vitro. J. PUMPER*, L. KOODIE, H. YUAN, S. ROY, and S. RAMAKRISHNAN (*University of Minnesota, Minneapolis, USA*)

Seq#: 192 Saturday, 24 March 2012, 9:45 a.m. – 11 a.m.
Poster Session, East Hall

Oral Medicine & Pathology – Mucosal Disease

S1544 RASDX: Standardized diagnostic criteria for recurrent aphthous stomatitis. L. BACCAGLINI*, J. SHUSTER, D. THERIAQUE, G. SERRANO, and R. LALLA (*College of Dentistry, University of Florida, Gainesville, USA*)

S1545 Patient-reported risk factors for recurrent aphthous stomatitis (RAS). G. SERRANO*, R. LALLA, J. SHUSTER, D. THERIAQUE, and L. BACCAGLINI (*College of Dentistry, University of Florida, Gainesville, USA*)

S1546 High Sugar Consumption in Recurrent Aphthous Stomatitis. A. NGUYEN*, D. THERIAQUE, J. SHUSTER, and L. BACCAGLINI (*University of Florida, Gainesville, USA*)

S1547 Oral Graft-versus-Host Disease: Clinical Presentation, Predictive Factors and Significance. H. FASSIL*, C. BASSIM, D. EDWARDS, K. BAIRD, S. STEINBERG, S. MITCHELL, L. GRKOVIC, D. ZHANG, and S. PAVLETIC (*National Cancer Institute, NIH, Bethesda, MD, USA*)

S1548 Local Delivery of Imiquimod to Buccal Mucosa. S. RAMINENI*, D. PULEO, and L. CUNNINGHAM (*University of Kentucky, Lexington, USA*)

S1549 PEDF functions as an endogenous anti-angiogenic during dermal wound repair. M. WIETECH*, M. KRÓL, and L. DIPIETRO (*University of Illinois – Chicago, USA*)

S1550 LED is better than LASER for Chemotherapy-induced Oral Mucositis. L. CAMPOS, A.C. FREITAS, M. MARQUES, M. CRISTOFARO, C. EDUARDO, and A. SIMOES* (*University of Sao Paulo, Brazil*)

S1551 Double-blinded chemoprevention trial: berry gel shows efficacy relative to placebo. M. TONG, B. HAN*, W. CHEN, Y. LING, Z. LIU, A. CURRAN, B.S. SHUMWAY, G. KUSHNER, G. BLAKEY, III, P. PEI, G. STONER, P. LARSEN, and S. MALLERY (*Ohio State University, Columbus, USA*)

S1552 NOS2 Induction by Human Beta Defensin 3 (hBD3) in Macrophages. J. JUN* (*Case Western Reserve University, Cleveland, OH, USA*)

Craniofacial Biology – Genetics and Epigenetics of Craniofacial Development and Growth

- S1553** Characterizing the Phenotype of the Novel Zebrafish Mutant 152N. H. KUNDURU*, J. LANNI, J. SHIELDS, V. ANDREEVA, D. FRAHER, and P. YELICK (*Tufts University, Boston, MA, USA*)
- S1554** Characterization of transgenic *alk8* reporter zebrafish. E. YUN*, S. PRABHUDESAI, J. BURT, and P. YELICK (*Tufts University, Boston, MA, USA*)
- S1555** Characterization of a Novel Zebrafish Mutant Lacking all Craniofacial Cartilages. K. FOX*, A. MOREIRA, and T. PAYNE-FERREIRA (*University of Massachusetts Dartmouth, USA*)
- S1556** Regulation of Tbx22 During Zebrafish Pharyngeal Arch Development. V. BOOMINATHAN*, T. SILVA, and T. PAYNE-FERREIRA (*University of Massachusetts Dartmouth, USA*)
- S1557** Prevalence of interfrontal bones in inbred and F1 mice. H. ZIMMERMAN*, K. AVANESYAN, and E. EVERETT (*University of North Carolina, Chapel Hill, USA*)
- S1558** Collagen Type XII Expression in the Biglycan Null Mouse. S. MACK*, A. EMORY, W. VU, and R. TAYLOR (*Baylor College of Dentistry, Dallas, TX, USA*)
- S1559** Collagen Type XII Expression in the Decorin/Biglycan Null Mouse. A. EMORY*, S. MACK, W. VU, and R. TAYLOR (*Baylor College of Dentistry, Dallas, TX, USA*)
- 1560** Genetic Association Analysis of *CYP19A1* in Pubertal Sagittal Facial Growth. K. GEORGE*, L. MORFORD, G. FALCAO-ALENCAR, J. MACRI, E. JACOBSON, A. BETZ, J. WEDDING, T. SKANCHY, B. SLOAN, and J. HARTSFIELD, Jr. (*University of Kentucky, Lexington, USA*)
- 1561** Expression of FAM20A, causative gene for Amelogenesis Imperfecta in ameloblasts. Y. OHYAMA*, C. AN, A. ALMEHMADI, M. SNEAD, S. KUMABE, Y. IWAI, H. HOTTA, and Y. MOCHIDA (*Boston University, Henry M. Goldman School of Dental Medicine, MA, USA*)
- S1562** Proteomic Analysis for Cerebral Cavernous Malformations. C. MACK*, C. DIBBLE, S. SCHWARTZ, J. CARLSON, and S. BENCHARIT (*University of North Carolina, Chapel Hill, USA*)
- S1563** Role of Nance-Horan Syndrome protein in epithelial morphogenesis. R. SARMICANIC*, T. WITTMANN, and P. KUMAR (*University of California – San Francisco, USA*)
- S1564** Effect of TWSG1 and BMP7 on Mammary Cell Migration. M. CAPP*, R. HEINZE, C. FORSMAN, and A. PETRYK (*University of Minnesota, Minneapolis, USA*)
- S1565** A novel *PTH1R* mutation causes eruption failure in deciduous dentition. H. HENDRICKS* and S. FRAZIER-BOWERS (*University of North Carolina, Chapel Hill, USA*)
- S1566** Characterization of Phenotype and *Col1a1* Expression in Cleft Palate Mice. L. KATZ*, V. HOGLUND, P. OVERBEEK, K. RYAN, and E. EVERETT (*University of North Carolina, Chapel Hill, USA*)
- S1567** Maxillary Arches of Mouse *Dlx1/2* Mutants: Region-Specific Reduction in Cell Proliferation. L. BURNS*, J. RUBENSTEIN, and J. JEONG (*New York University, USA*)
- S1568** Paper Withdrawn
- S1569** GWAS Follow-up Studies: *NTN1* and *NOG*, New Candidates for NSCL/P. C. ALLEN*, M. MANSILLA, and J. MURRAY (*University of Iowa, Iowa City, USA*)

Craniofacial Biology – Tooth and PDL Development and Maintenance

- S1570** Unraveling A Genetic Association Between Hypodontia and Epithelial Ovarian Cancer. A. VU*, L. MORFORD, M. SAKAMOTO, K. KIRK, and J. HARTSFIELD, Jr. (*University of Kentucky, Lexington, USA*)
- 1571** Functional Analysis of a Hypodontia Associated BMP4 Mutation. Y. LU, S. WANG*, I. GARZÓN, G. MUES, A. VIEIRA, and R. D'SOUZA (*Texas A&M Health Science Center, Baylor College of Dentistry, Dallas, USA*)
- 1572** EDAR Mutations in Non-Syndromic Tooth Agenesis. G. MUES*, L. XIANG, A. BONDS, C. FAIRLEY, O. KLEIN, A. VIEIRA, and R. D'SOUZA (*Texas A&M Health Science Center, Baylor College of Dentistry, Dallas, USA*)
- S1573** Differential Gene Expression in Pax9^{+/+} and Pax9^{-/-} mouse tooth buds. J. BONDS*, H. KONG, Y. WANG, G. MUES, and R. D'SOUZA (*Baylor College of Dentistry, Dallas, TX, USA*)
- S1574** Differentially Expressed Genes in Msx1^{-/-} Versus Msx1^{+/+} Tooth Buds. H. KONG, H. GLESSA*, G. MUES, and R. D'SOUZA (*Texas A&M Health Science Center, Baylor College of Dentistry, Dallas, USA*)
- S1575** Notch Signaling is Required for Attachment of the Ameloblast-SI Interface. R. ESPINOZA*, A. JHEON, T. WEN, B. BIEHS, and O. KLEIN (*University of California – San Francisco, USA*)
- S1576** Spatiotemporal Expression of the Tcfap2b gene in Mouse Tooth Morphogenesis. S.A. WILLIAMS*, S.L. WILLIAMS, Y. LU, S. WANG, G. MUES, and R. D'SOUZA (*Texas A&M Health Science Center, Baylor College of Dentistry, Dallas, USA*)
- S1577** Ectopic activation of Bmp4: effects on mandibular and tooth development. Z. ALLEMAN*, Y. ZHANG, E. BLACKWELL, M. MCKNIGHT, Y. CHEN, and L.-B. RUEST (*Baylor College of Dentistry, Dallas, TX, USA*)
- S1578** The Function of Leucine-Rich Amelogenin Peptide in tooth formation. J. STAHL*, Y. NAKANO, T. LE, and P. DENBESTEN (*University of California – San Francisco, USA*)
- S1579** HERTWIG'S EPITHELIAL ROOT SHEATH PROTEINS AND PERIODONTAL LIGAMENT CELL DIFFERENTIATION. S. GARDNER*, L. CHEN, J. REYNA, and M. ZEICHNER-DAVID (*University of Southern California, Los Angeles, USA*)
- S1580** The Role of SPARC in Maintaining Periodontal Ligament Integrity. J. TROMBETTA-ESILVA*, J. BARACZEK, M. BARACZEK, and A. BRADSHAW (*Medical University of South Carolina, Charleston, USA*)
- S1581** Genetic Association Study of *CASP1* and EARR During Orthodontia. J. DEMPSEY*, G. FALCAO-ALENCAR, L. MORFORD, J. MACRI, and J. HARTSFIELD, Jr. (*University of Kentucky, Lexington, USA*)

NOTE: * = Presenting Author
S prior to the presentation number indicates Student Presenter

All scientific sessions are located at the Tampa Convention Center.

POSTER CHAIR LISTING

SATURDAY, MARCH 24, 2012

Poster Sessions: 9:45 a.m. - 11 a.m.

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181	CAR	1413 - 1424	Lilliam Pinzon
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185	MT	1459 - 1472	Alexander Garcia-Godoy
186	M/I	1473 - 1479	Yen-Tung (Andy) Teng
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