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Press Release 04-076

Staying on the Path – One Atom at a Time

New percolation model may allow researchers to study biochemistry at the atomic level

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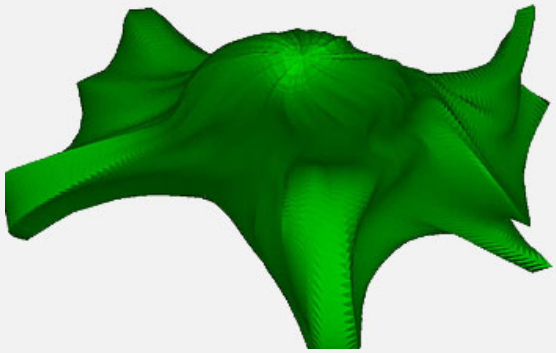

Surface rendering of a neuron. A Delauney tessellation scheme was used to discretize the volume. This new approach can be applied to any vertically single-branched cell.

Credit: *Yun-Bo Yi and Ann Marie Sastry, University of Michigan*

Download the high-resolution TIFF version of the image. (996 KB)

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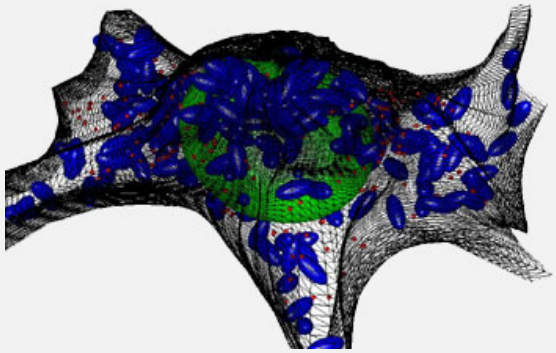

Rendering of the interior of a 3-D model of a neuron. 200 confocal microscope images (each only 0.1mm in thickness) were used to generate the image. The smallest resolvable feature (a single pixel in the image) is about 0.1mm in size.

Credit: *Yun-Bo Yi and Ann Marie Sastry, University of Michigan*

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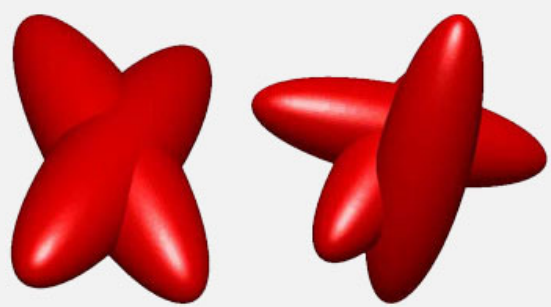

Clusters of two, three and four permeable ellipsoids, generated from the percolation simulations of Yun-Bo Yi and Ann Marie Sastry.

Credit: *Yun-Bo Yi and Ann Marie Sastry, University of Michigan*

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