BRINGING LIGHT TO THE LIFE SCIENCES



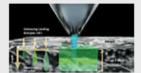
THE PULSE OF THE INDUSTRY





Wednesday, July 22, 2015

SBF Imaging – Using SEM and LM to Create High-Resolution 3-D Reconstructions



In recent years, there have been considerable advancements in EM-based methods for 3-D reconstructions of large tissue volumes. In this article, we describe a new approach that combines in situ serial sectioning with a unique, multienergy deconvolution technique to generate 3-D reconstructions with isotropic resolution down to a few nanometers.

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Liquid Crystal Compound Lens Eyed for 3-D Imaging

Liquid crystal can be controllably formed into compound lenses similar to those found in insects, a team from the University of Pennsylvania (Penn) has demonstrated. These lenses produce sets of images with different focal lengths, a property that could be used for 3-D imaging.

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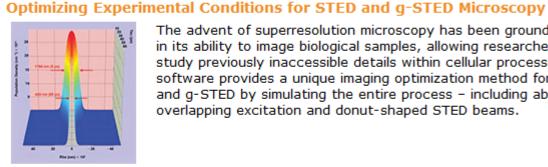












The advent of superresolution microscopy has been groundbreaking in its ability to image biological samples, allowing researchers to study previously inaccessible details within cellular processes. New software provides a unique imaging optimization method for STED and g-STED by simulating the entire process - including absorption, overlapping excitation and donut-shaped STED beams.

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TOPTICA Photonics, Inc. The multi-laser engine, iChrome SLE, provides up to eight different colors from a broad selection covering 405 - 640 nm.

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Dual Inverted SPIM

Applied Scientific Instrumentation, Inc. Applied Scientific Instruments has developed a new form of light sheet microscopy with our collaborators in the scientific community.

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