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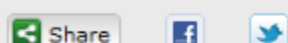
Wednesday, April 22, 2015

Comparing Micromanipulators for Electrophysiology



Several different technologies offer a range of performance options within the confines of an optical microscope for patch-clamp studies, intracellular recording and other demanding experiments in electrophysiology. Electrophysiology encompasses the measurement and analysis of transient ion flows and resultant voltage changes across cellular membranes.

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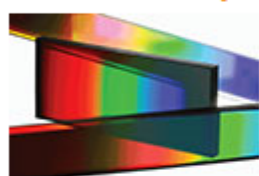
Focus-Tunable Lenses Enable 3-D Microscopy

Focus-tunable lenses speed up and enhance three-dimensional imaging capabilities in a diverse set of modern microscopy methods including confocal, two-photon and light-sheet microscopy.

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Advances in Optical Filters Provide Rapid, On-the-Go Diagnosis



When it comes to diagnostics, one of the most crucial – and often overlooked – components is the optical filter. But as manufacturing processes improve, optical filters of exceptional quality are being created, which not only deliver accurate results but also open up an entirely new avenue of application in wearable diagnostics.

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Lasers for Microscopy: Major Trends

Laser development for the microscopy market continues to be driven by key trends in applications, which currently include superresolution techniques, multiphoton applications in optogenetics and other areas of neuroscience, and even a shift in multiphoton imaging toward preclinical and clinical usage.

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Featured Products



Optogenetics Microscopy

Siskiyou Corporation
The Siskiyou IS-OGP is a simple, turnkey, modular solution (patent pending) for integrating an external laser beam into an existing microscope in optogenetics experiments that utilize a laser spot to stimulate target neurons.

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SPECTRA X Light Engine

Lumencor, Inc.
The SPECTRA X light engine from Lumencor is the ultimate integrated solid-state excitation source for fluorescence microscopy.

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Multi-Laser Engines with More Colors

TOPTICA Photonics, Inc.
The new iChrome SLE integrates up to six individual diode or DPSS lasers in one box and provides fast switching between two single-mode fiber outputs.

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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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Optogenetics Laser Solutions

Cobolt AB
Cobolt offers a range of high performance, reliable and user friendly laser assemblies specially tailored for advanced optogenetics research.

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Mini Focus Module

New Scale Technologies, Inc.
This miniature focus module with built-in controller is the smallest, easiest-to-integrate focus system for precision microscopes that are embedded in handheld instruments.

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OBLIQUE SINGLE PLANE ILLUMINATION MICROSCOPE (OSPI-M)

The oSPIM is two microscopes in one. The lower microscope can be used for conventional fluorescent imaging including WF, confocal and TIRF. The bottom objective is also used for light sheet (SPIM) illumination, with light sheet imaging from the tilted top objective.

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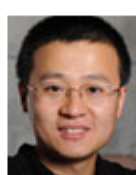
iChrome CLE
Economic 4-color laser engine

WEBINAR

In Vivo Deep Tissue Imaging with Optical Wavefront Control

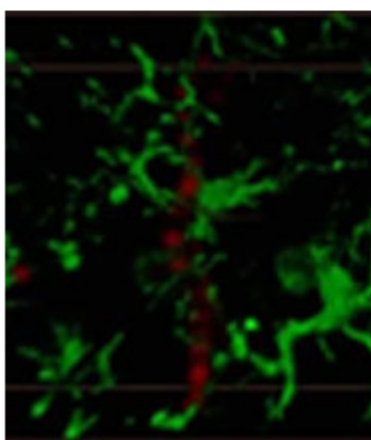
Wednesday, May 27 1pm EDT

FREE WEBINAR



Dr. Meng Cui

Optical microscopy has become an indispensable tool in modern biology. The high spatial and temporal resolution and the rich molecular information offered by optical imaging have led to new discoveries in a variety of research fields. A major constraint of optical imaging is the limited imaging depth in turbid biological tissue. This talk will explore two new techniques for addressing this problem, both utilizing wavefront control to achieve unprecedented performance.



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2015 Third International Conference on BioPhotonics - May 20 - 22, 2015 ·

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