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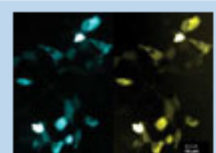


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FRET Microscopy Brings Us into a World of Molecular Interactions
 Förster resonance energy transfer microscopy is not bound by the same restrictions as conventional light microscopy - it goes beyond the diffraction limit, allowing molecular interactions to be visualized with greater resolution than ever. The resolution of conventional light microscopes is limited by the wavelength of the light used to illuminate the specimen. FRET microscopy, on the other hand, detects the consequence of the direct transfer of excitation energy from one fluorophore to another nearby molecule. This enables us to see interactions between molecules or conformational changes within molecules at distances of less than 10 nm, far below the typical diffraction limit of light microscopes at around 200 nm.

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Eyes Wired to Spinal Cord Instead of Brain Can Still See

Transplanted eyes located far outside the head in a vertebrate animal model can see even without a direct neural connection to the brain, researchers have shown for the first time. The connections were tested using fluorescence microscopy, an LED light setup and camera-based motion-tracking technology.

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Q&A: Market Growing Slowly for PDT

Photodynamic therapy holds promise for cancer treatment and more, but it has yet to make a strong move into the clinic. Photodynamic therapy is not exactly new, but it's still working on getting its foot in the door - the door of the clinic, that is. Still mainly in the research stages, PDT technologies and techniques have applications in treatment of cancer and other diseases. But the market hasn't exploded just yet, insiders say.

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In this edition of the industry's premier weekly newscast: The wheels come off the Kepler space telescope, nanoantennas improve infrared sensing, and Managing Editor Laura Marshall shares her final impressions of Laser World of Photonics 2013. Co-hosted by Photonics Media Senior Editor Melinda Rose.

Images Reveal Cell Organization, Behavior and More

Scientists from various disciplines came together to discuss the latest imaging techniques and innovations at the recent American Association for the Advancement of Science (AAAS) annual meeting. Interdisciplinary collaboration is vital to biophotonics, especially in the area of imaging. A special symposium called "Innovations in Imaging: Seeing is Believing" brought physicists and cell biologists together to discuss collaboration and innovation in microscopic imaging.

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Laser-Based Breast Cancer Test Faces Human Trials

A laser diagnostic test that could lead to an instant diagnosis of breast cancer at the time of a mammogram will for the first time be evaluated using excised human breast tissue and lymph nodes. The method, known as spatially offset Raman spectroscopy (SORS), uses a laser to pinpoint objects deep beneath the skin - without an incision.

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Biophotonics Products

Ultrafast Lasers
 Coherent Inc.

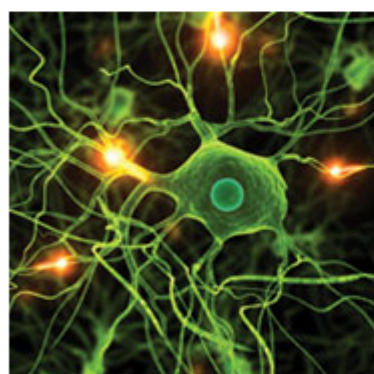
Linear Stage
 PI (Physik Instrumente) L.P.

Raman Spectroscopy Mirrors
 Iridian Spectral Technologies

CH-62 Optical Chopper/Shutter
 Electro-Optical Products Corp.

Industry Events

WEBINAR



Join Us for a Free Webinar
 2013 Webinar Series - Expert Briefings

Computational Microscopy, Sensing and Diagnostics for Telemedicine and Global Health Applications

Wednesday, June 5, 2013 - 1:30 p.m. EDT/10:30 a.m. PDT



Photonics Media will host Dr. Aydogan Ozcan, Associate Professor, Bio- and Nano-Photonics Laboratory, Electrical Engineering and Bioengineering Departments, UCLA. Dr. Ozcan will introduce new imaging and detection architectures that compensate digitally for the lack of complex optical components available in cell phones by using novel theories and algorithms to address the immediate needs of telemedicine for global health problems.

REGISTER NOW

Photonics North 2013 - June 3 - 5, 2013 - Ottawa, Canada



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- Laser Systems
- Medical Laser Delivery Systems
- Medical/Biomedical
- Microscopes
- Microscope Stages

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