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PHOTONIC



BRINGING LIGHT TO THE LIFE SCIENCES

Wednesday, October 22, 2014

The evolving and dynamic field of functional brain mapping is creating a need for customized lasers. Optogenetics is enabling scientists to use light to activate or inhibit signaling among neurons and, in some cases, to link details of neural network operation to behavioral and

Establishing a standard could allow microscopists to verify and

reproduce results. Laboratory managers and researchers generally agree that having more accuracy and consistency in color rendition could assist in achieving improved evaluation of results. However, color management has seemed so complex and elusive that many scientists and medical professionals have given up on achieving it.

Multiphoton Microscopy Is Heading for the Mainstream



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As a postdoc in the early 2000s, Dr. Ruth Empson worked with one of the first multiphoton microscopy systems in Britain. The technology was robust, she said, but handling it could sometimes prove a bit of a challenge - especially for a biologist like herself, who didn't have the technical background of the physicists who had developed it and who, at the time, made up much of its user base.

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Color Management Helps Microscopy Show Its True Colors

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Lessons Learned in Biophotonic Systems Design

Optogenetics Advances Ultrafast Lasers

sensory functions of the whole animal.



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New multiparametric modeling tools drastically simplify the design of complex biophotonic systems. For all the sophistication of modern engineering practice, the design of complex biophotonic systems remains as much an art as a science. This means that the skill and insights of individual designers and design teams are critical to the performance of the system.

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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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JUNE 26-29, 2017, MESSE MÜNCHEN LASER PHOTONIC



WEBINAR

Imaging Biology at High Spatiotemporal Resolution

Wednesday, October 29, 1 p.m. EDT

FREE WEBINAR Presented by Hari Shroff

National Institute of Biomedical Imaging and Bioengineering (NIH)

implementations that permit resolution doubling in live volumes greater than 10 times thicker than possible with conventional SIM, as well as a hardware modification that enables effectively "instant" SIM imaging at rates 10 to 100 times faster than other SIM implementations. The second half of the talk will focus on the

Hari Shroff will present alternative SIM

development of inverted selective plane illumination microscopy (iSPIM); progress that quadruples the axial resolution of iSPIM by utilizing a second specimen view, thus enabling imaging with isotropic spatial resolution (dual-view iSPIM, or diSPIM); and introduction of a protocol for a do-it-yourself diSPIM.

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