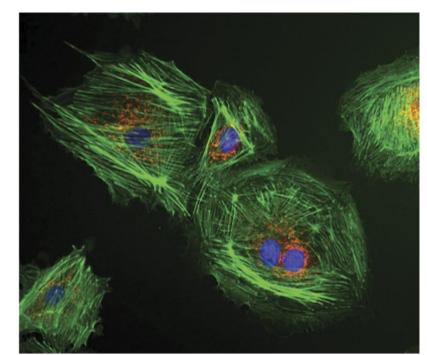
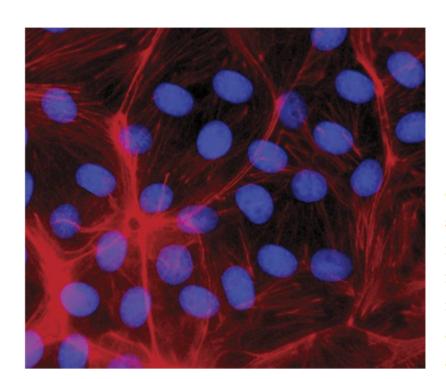


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Fluorescence LED Illumination Systems Can Be Customized for Life Sciences Applications

Automation is a widespread trend across the life sciences, maximizing throughput and efficiency in applications such as drug development and clinical testing. For example, highthroughput screening - often enhanced by advanced illumination — accelerates the development of new drugs, while multiplex fluorescence imaging systems are helping to advance spatial biology research and the study of molecular interactions. Read Article



LEDs and Multi-Bandpass Filters Work in Tandem to Transform Fluorescence Instrumentation

Fluorescence stands as a cornerstone technology in the realm of bioanalysis. Fluorescence is one of the most sensitive spectroscopic quantification techniques, and fluorescence microscopy methods, including wide-field and confocal microscopy, enable users to identify the locations and movements of certain molecules. These technologies, as well as flow cytometry, enable scientists, medical professionals, and biotechnology companies to obtain accurate test results, often in rapid time frames. Read Article



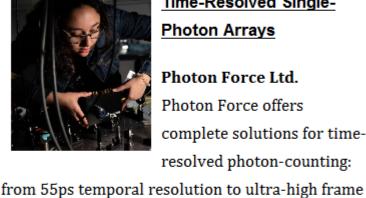
Speed Upgrade Researchers at the University of Tokyo have increased the

Raman Spectroscopy Undergoes Major

measurement rate of Raman spectroscopy by 100-fold. Since the measurement rate of the technique has been a major limitation, the improvement is expected to aid advancements in multiple fields relying on the identification of molecules and cells, such as biomedical diagnostics and material analytics. Read Article







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RM-1250 GEN II STAGE

Instrumentation Inc. The RM-1250 XY stage is the culmination of

designing and manufacturing automated XY stages for demanding customers. A flat top, flat bottom, and multiple mounting configurations make it easy for laboratories and manufacturers to integrate it into existing systems. No detail went unexamined in the design of the RM-1250 Gen II. Visit Website Request Info

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Liquid Crystal Lens Filters out Light that Causes Seizures In people who experience photosensitive epilepsy, seizures can be triggered by visual stimuli, like video games, that are displayed at certain wavelengths. Lenses made with cholesteric liquid crystal, a material that is sensitive to changes in

More News

temperature as well as the electrical field, could help block these harmful wavelengths through thermal control. Read Article

Gold-Based Agent Improves OCT's Ability to Image Cardio Conditions Intravascular optical coherence tomography is used to inform doctors about the shape and structure of hardened artery buildups, torn arteries, and blood clots in the heart. While the method is useful for anatomical imaging, researchers believe it

can be pushed further to realize its potential to assist in earlier detection and risk assessment of heart conditions. Read Article

Laser-Activated Gel Forms Tissue Scaffolds for Medicine and Research

Using a laser and a light-reactive gel, a research team led by Hao Liu at ETH Zurich produced highly aligned microfilament structures for growing connective, nerve, and muscle tissue in a lab. The optically-based approach developed by the team could open new possibilities for building lifelike tissue models for biomedical research and translational medicine. Read Article

Features Second Harmonic Generation Microscopy, Dynamic Light Scattering, Raman Spectroscopy, and Flow Cytometry

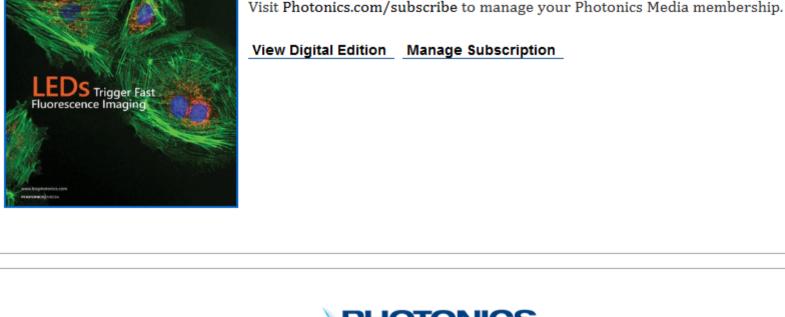
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