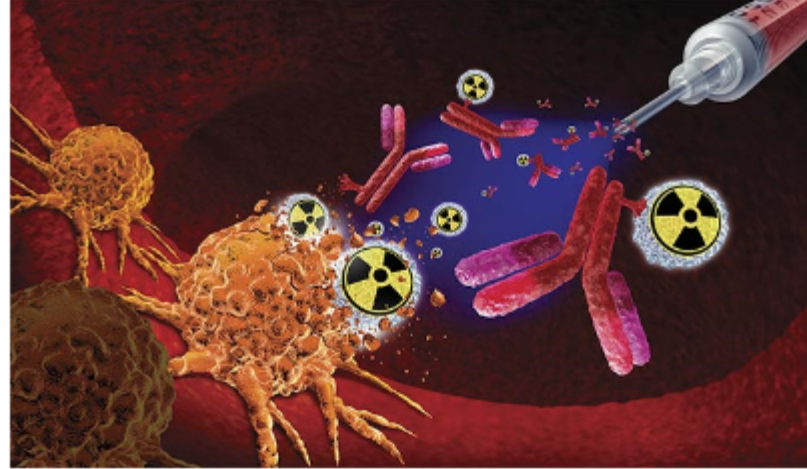


BioPhotonics

Bringing Light to the Life Sciences®

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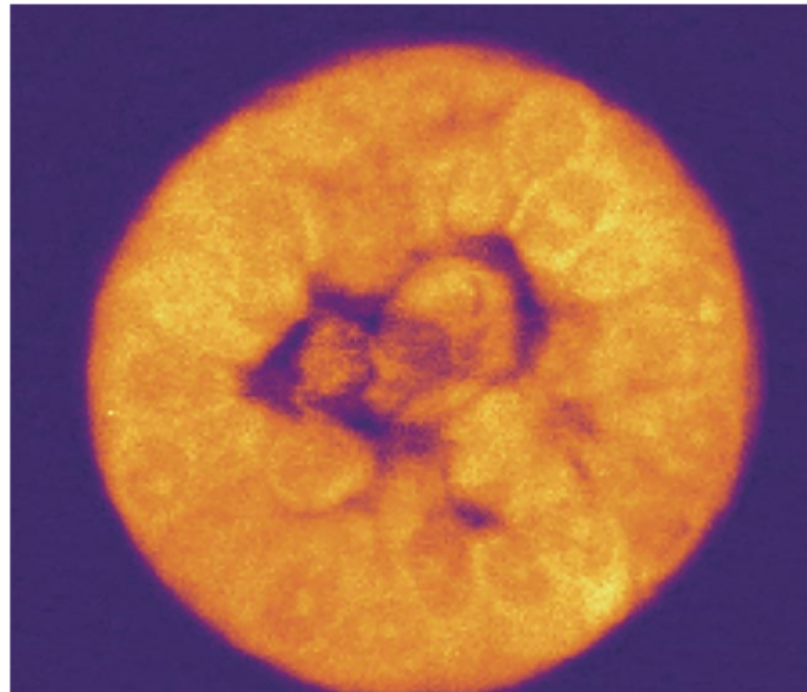


Lasers Drive Production of Radioisotopes for Medical Diagnostics and Therapy

A radioisotope is an unstable atomic nucleus that undergoes radioactive decay, or more simply, a change in nuclear structure with the simultaneous emission of radiation.

Radioisotopes can now be generated using lasers, which could help meet the rapidly increasing demand for medical

radioisotopes and allow the production of novel radioisotopes to adapt to a variety of medical conditions, and to novel diagnostics requirements. [Read Article](#)



Feeling with Photons: Brillouin Microscopy Advances Biomaterials Research

Brillouin microscopy was first developed for materials science fields that focus on the examination of condensed matter to assess properties such as elasticity and viscosity. The introduction of Brillouin microscopy to the biological sciences has improved the analysis of biomechanics, because it can directly image the viscoelastic properties of living biological matter. [Read Article](#)



Brain Cancer Imaging Innovations Capture Prestigious Prize

Two professors engaged in neuroscience research have received a major scientific award for their use of two-photon imaging and optogenetics to develop a new understanding of the way cancers (especially gliomas) progress in the body and the brain. [Read Article](#)



Featured Products & Services



Modular Raman Spectroscopy Kit

Thorlabs Inc.

Thorlabs' Raman

Spectroscopy Kit features a large coded-aperture input to achieve high signal-to-noise ratios with low intensity at the sample, ideal for analyzing complex mixtures with larger sample volumes. The kit is designed for 680 nm and 785 nm excitation and multiple front end options are available.

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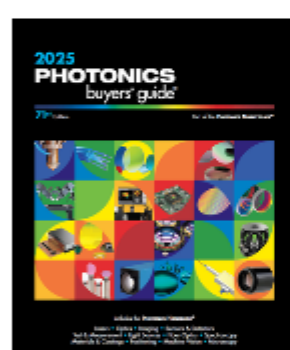
Multi-Immersion Objectives

Applied Scientific Instrumentation Inc.

ASI and Special Optics have developed two dipping objective lenses designed for light sheet microscopy of cleared tissue samples, including ASI's ct-dSPIM. These objectives work in any refractive index media without a correction collar because of a unique curved first surface.

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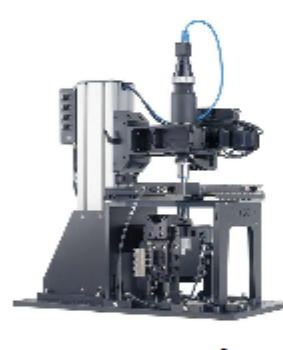
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More News

Thermography Enhances Imaging for Tracking Vitals and Disease Indicators

Using advanced processing techniques on raw thermal images, researchers at the Georgia Institute of Technology accurately tracked vital signs in a subject, including the subject's heart rate, respiration rate, and body temperature. To enhance the clarity and quality of the thermal images, the team used phasor thermography, a technique it developed for hyperspectral, high-resolution, multiparametric thermal imaging and vision. [Read Article](#)

Study Offers Tools to Optimize Low-Light Cameras for Bioimaging

Illumination is often reduced when imaging biological samples. Low-light imaging helps researchers avoid adverse effects, like photobleaching and phototoxicity, that could damage the sample. However, use of low light can affect image quality. The challenge when minimizing illumination is to maintain image quality that is high enough to reflect the underlying biology of the sample and be used for quantitative measurements. [Read Article](#)

Luminate NY Names Companies in Eighth Cohort

Empire State Development has named the 10 companies selected to participate in round eight of the Luminate NY accelerator program, investment fund, and competition. Each finalist will receive an initial investment of \$100,000 and will have the chance to compete for up to \$2 million in follow-on funding upon completion of the program. [Read Article](#)

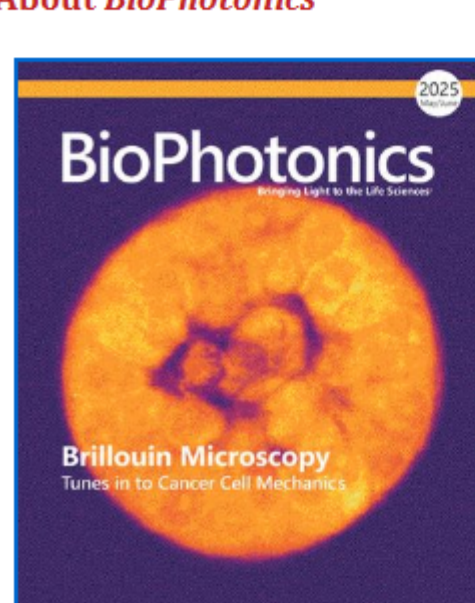
Next Issue

Features

Chip-Based Imaging, Mid-IR Spectroscopy, OCT and Diagnostics, and Liquid Lenses

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