

Multi Modality Microscopy

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Multi Modality Microscopy

Radiotherapy will be recommended if a patient's cancer has high-risk features when examined under the microscope after surgery. Researchers hope that combining the study drugs with surgery and ...

A Study of Multi-Modality Therapy for Very High-Risk Localized and Low-Volume Prostate Cancer

Using three different imaging modalities over five orders of magnitude of resolution, researchers have, for the first time, successfully imaged an entire mouse brain in one go—from the whole brain to ...

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New Imaging Pipeline Captures Synapse to Whole Brain on One Sample

The microscope uses a type of imaging called synchrotron-based ... and Patrick La Riviere of UChicago and Vincent De Andrade of Argonne National Laboratory. Citation: "Multi-modal imaging of a single ..."

Researchers image an entire mouse brain for the first time

The microscope uses a type of imaging called ... And once we do that, I want to do an entire human brain." The study, "Multi-modal imaging of a single mouse brain over five orders of magnitude ..."

Mouse brain imaged from the microscopic to the macroscopic level

And supercontinuum sources are used as the basis for widely tunable light sources, e.g., for chemically-selective microscopy. Beside our experiments we can rely on in-depth numerical simulations of ..."

Light Conversion in Waveguides

Our new Structured Illumination super-resolution Microscope (SIM) delivers twice the resolution of traditional diffraction limited microscopes (~115 nm lateral and ~300 nm axial) Capabilities: SIM ..."

Nikon Structured Illumination Microscope (SIM)

Researchers at the University of Chicago and the U.S. Department of Energy's (DOE) Argonne National Laboratory have leveraged existing advanced X-ray microscopy techniques to bridge the gap ..."

Advanced X-ray technology provides a viable pipeline for multiscale whole brain imaging

Global Digital Microscopes Market, by Modality (Desktop Digital Microscope and Portable Digital ... a Finland-based manufacturer of multi-camera technology received an investment of US\$ 2.3 ..."

Digital Microscopes Market Will Hit at A CAGR of 6.5% and To Garner US\$ 1,743.9 Million by 2023, Says Coherent Market Insights (CMI)

Her research centers around the development, optimization, and validation of imaging techniques including micro computed tomography (Micro-CT) for multi-modal 3-dimensional (3D) imaging analysis, ..."

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Emilia Mason, PhD

Grow the SBC in both size and scope through the recruitment of new faculty, and fostering multi-disciplinary research among current UW faculty, respectively. Build the required research infrastructure ...

ABOUT the SBC

June 25, 2021 /PRNewswire/ -- Park Systems, the fastest growing manufacturer of Atomic Force Microscopes (AFM) just announced Park FX40, a groundbreaking autonomous atomic force microscope, ...

Park Systems Announces Park FX40, the Autonomous AFM with Built-in Intelligence - A Groundbreaking New Class of Atomic Force Microscope
We define the mechanism explaining this process by characterizing the transposition regulator, TnsC, from a type V-K CRISPR-transposase system using cryo-electron microscopy (cryo-EM). Polymerization ...

Structural basis for target-site selection in RNA-guided DNA transposition systems

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Post-doctoral Researcher for in-situ Transmission Electron Microscopy

More information: Sean Foxley et al, Multi-modal imaging of a single mouse brain over five orders of magnitude of resolution, NeuroImage (2021). DOI: 10.1016/j.neuroimage.2021.118250 Journal ...

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