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technologies

Revolutionizing bioimaging
to elevate human health.

Introducing MegaSPIM

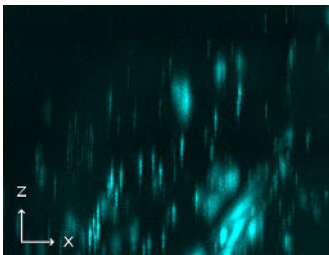
High-resolution light sheet microscopy
for a wide range of samples

- **One system, many applications:** Rapidly image thin sections and a variety of cleared tissues, including thick human or other primate brain sections, and arrays of smaller samples such as whole rodent brains or organoids.
- **High-throughput volumetric imaging:** Obtain uniform axial resolution across the entire FOV with patented axial sweeping technology, and quickly image large or multiple samples with dual camera acquisition.
- **Complete solutions, from tissue prep to publication:** Access custom tissue processing, mounting, and analysis solutions for different sample types, and leverage our post-processing power for large data sets.

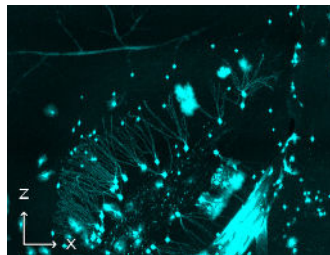


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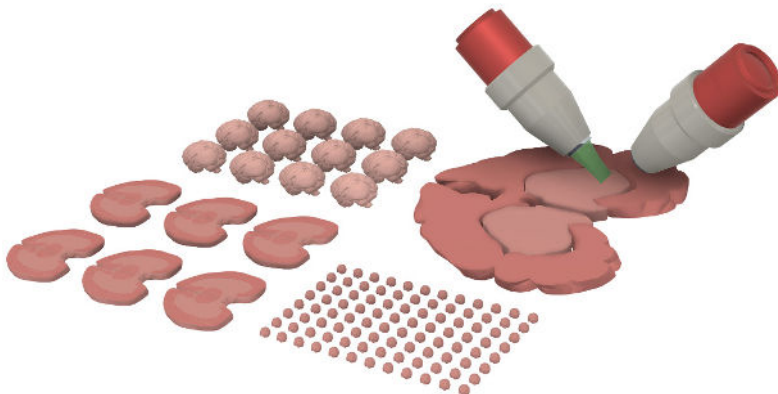
Without axial sweeping



With axial sweeping



Endogenous tdTomato in mouse cortex, 1.8X magnification



TECHNICAL SPECIFICATIONS

Light Sheet Formation	Dynamic axial sweeping (<i>Dean et al. 2015</i>)
Specimen Lateral Size	Up to 200 mm x 200 mm
Detection Objective	1.8X, 3.6X, 9X, 15X, 22X
Camera	Hamamatsu ORCA-Fusion Digital sCMOS camera (2304 x 2304 pixels) with lightsheet readout mode
Dual-Camera Acquisition	Doubled imaging throughput with independent focus control for each camera
Laser Lines	Up to 7, 405 - 785 nm

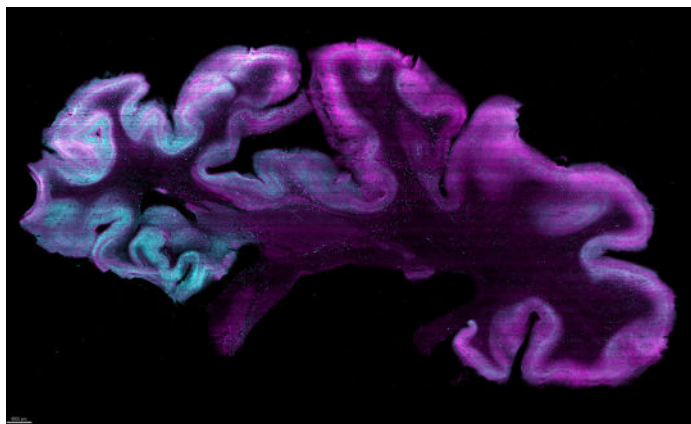
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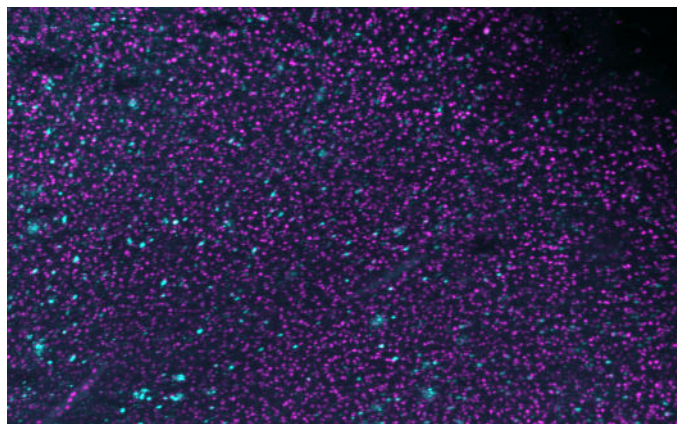
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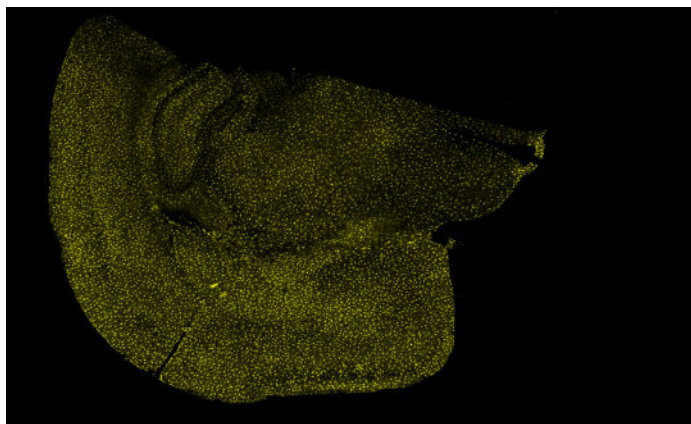
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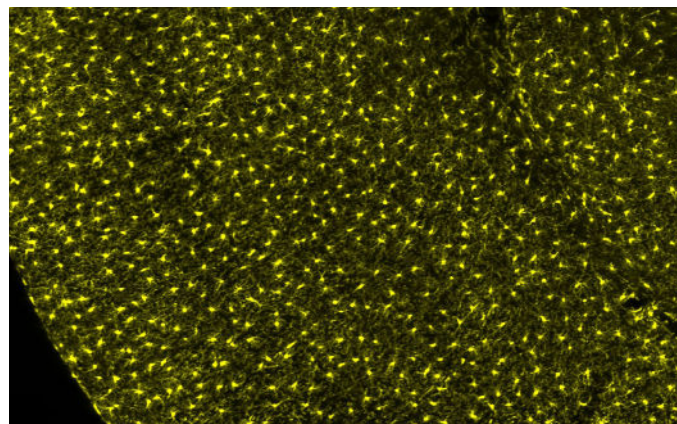
HUMAN-SCALE SAMPLES



Phospho-tau + α -Synuclein in 1mm coronal
section of human brain, 1.8X magnification



Iba-1 in 100 μ m uncleared mouse brain section, 15X magnification

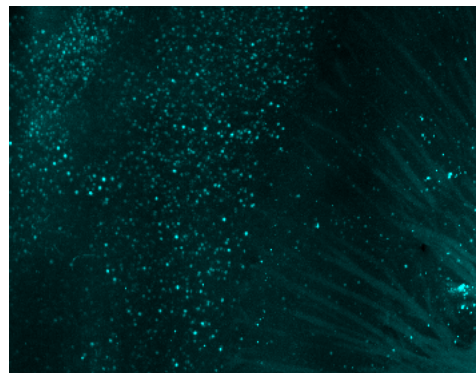
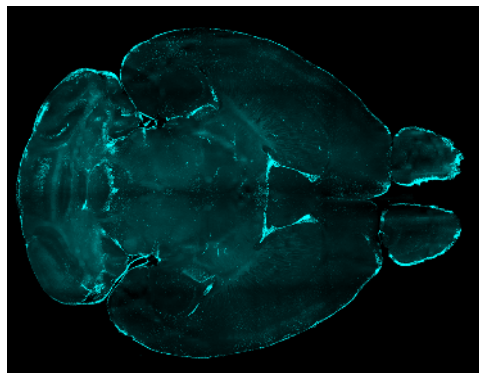


THIN UNCLEARED SECTIONS

INTACT SAMPLES & MUCH MORE

Get in touch with an
imaging specialist
to discuss your
applications.

cFOS in cleared whole mouse
brain, 3.6X magnification



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