

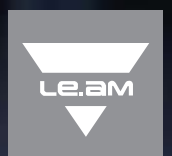
Red

Strong Fluorescence Imager



**Confocal-Level Clarity
Optimized optical path
Magic path technology**

Engineered in Korea for Global Scientific Excellence



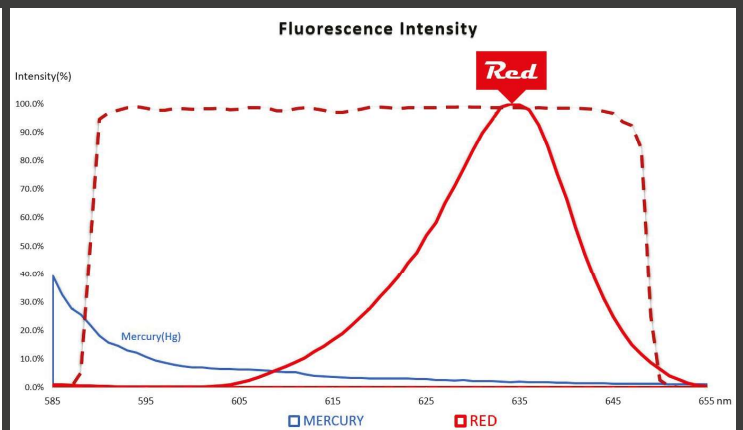
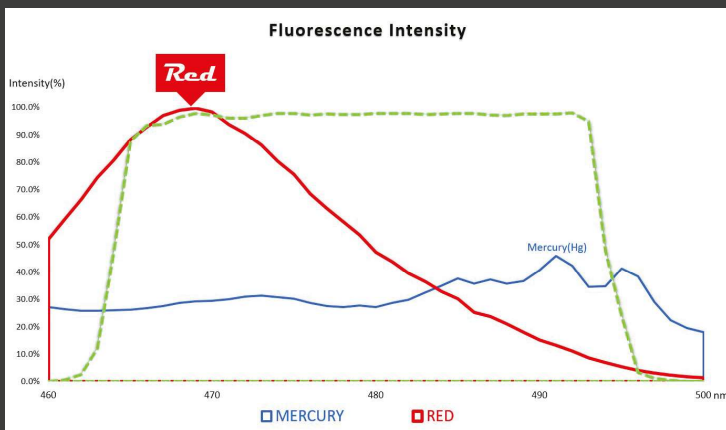
Red

Strong Intensity
Strong Signal
Fluorescence

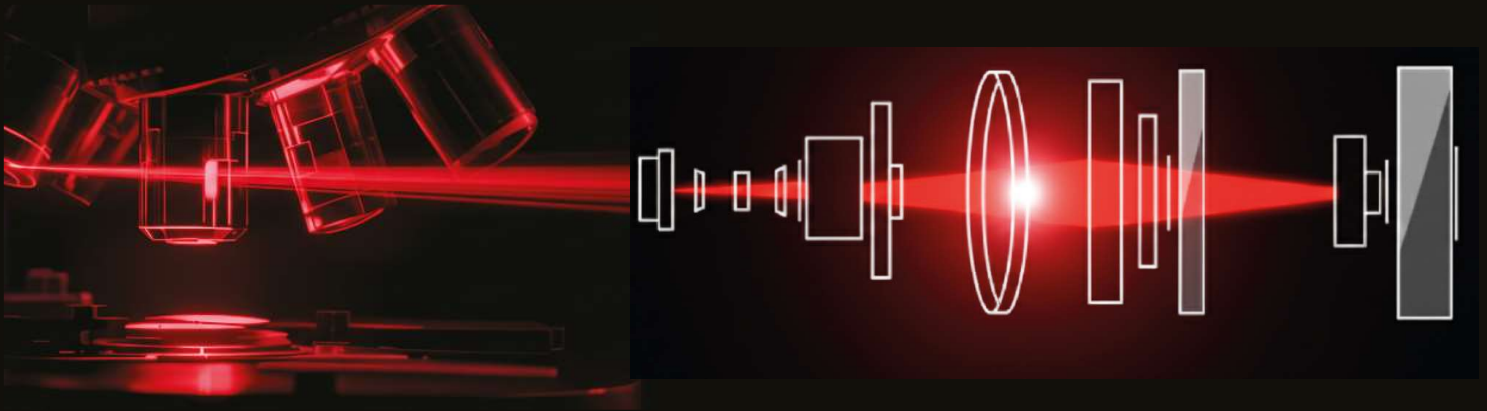


Strong Optical Illumination Path

Strong fluorescent signal from optimized illumination path.
Maximizes visualization of delicate biological samples.



Red's Technology - Optimized Optical Pathway

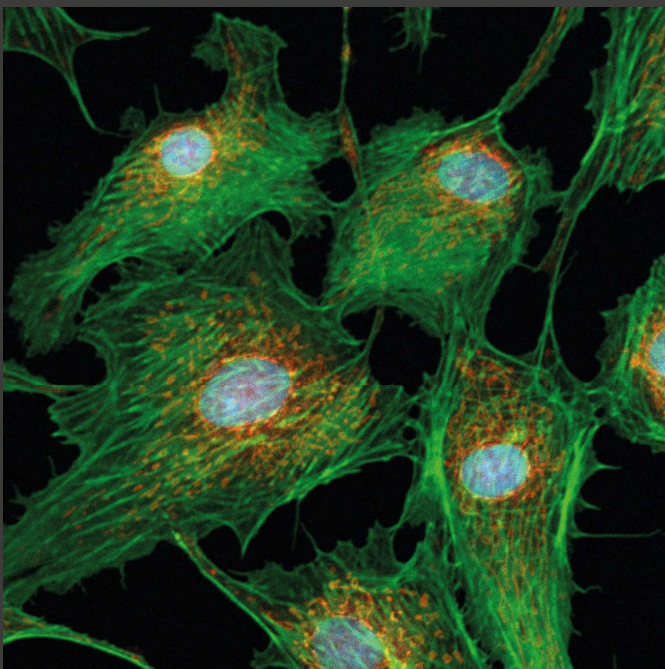


The *Red* microscope's optical path design

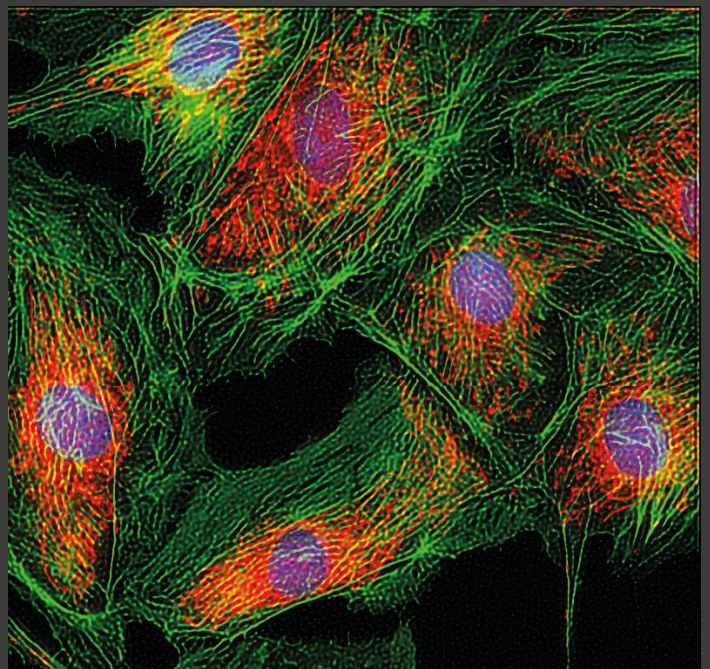
The *Red* microscope's optical path design optimizes both the excitation (light source) path and emission (image) path to maximize fluorescence signal detection while minimizing background noise.

Sometimes, you don't need a confocal microscope

Confocal microscope



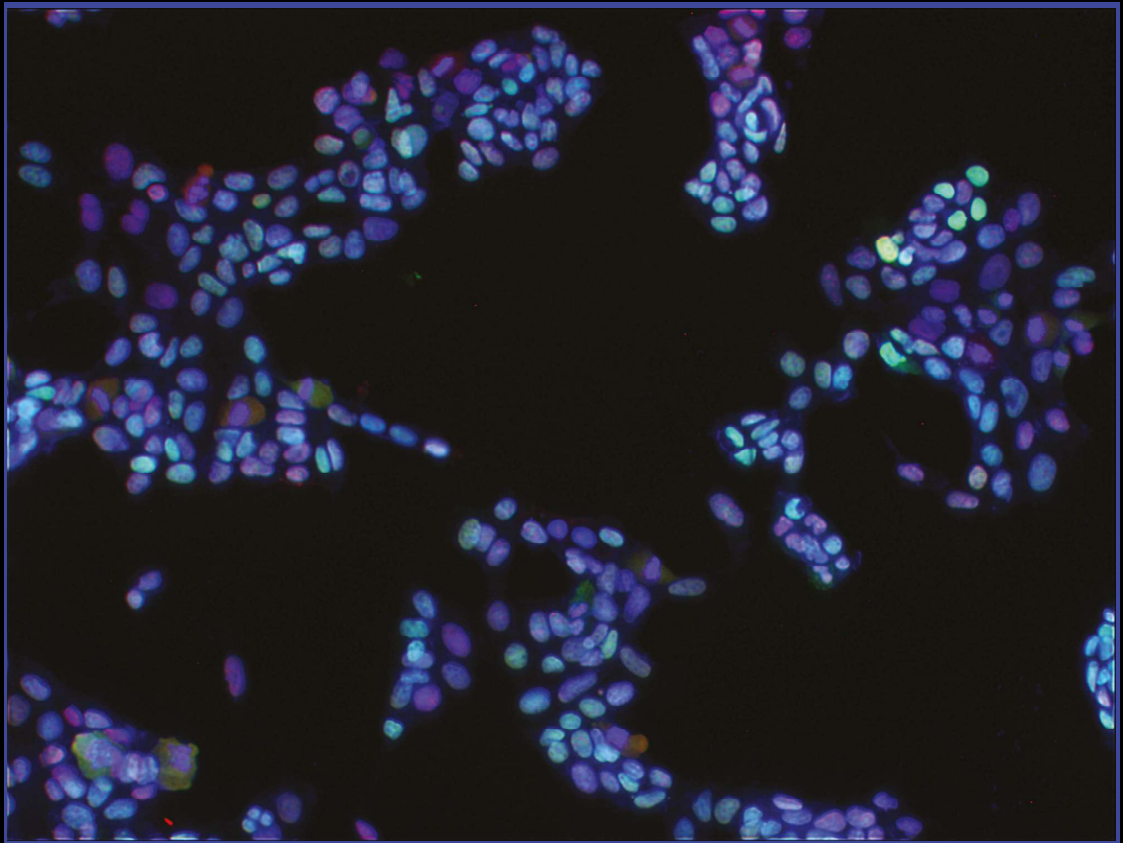
Red



- Confocal microscope : FluoCells™ Prepared Slide #1 (Mito Tracker™ Red CMXRos / Alexa Fluor™ 488 Phalloidin/DAPI)
- *Red* Fluorescence imager : FluoCells™ Prepared Slide #2 (Mouse Anti- α -tubulin/AlexaFluor™ 488 Texas Red™-X Phalloidin/DAPI)

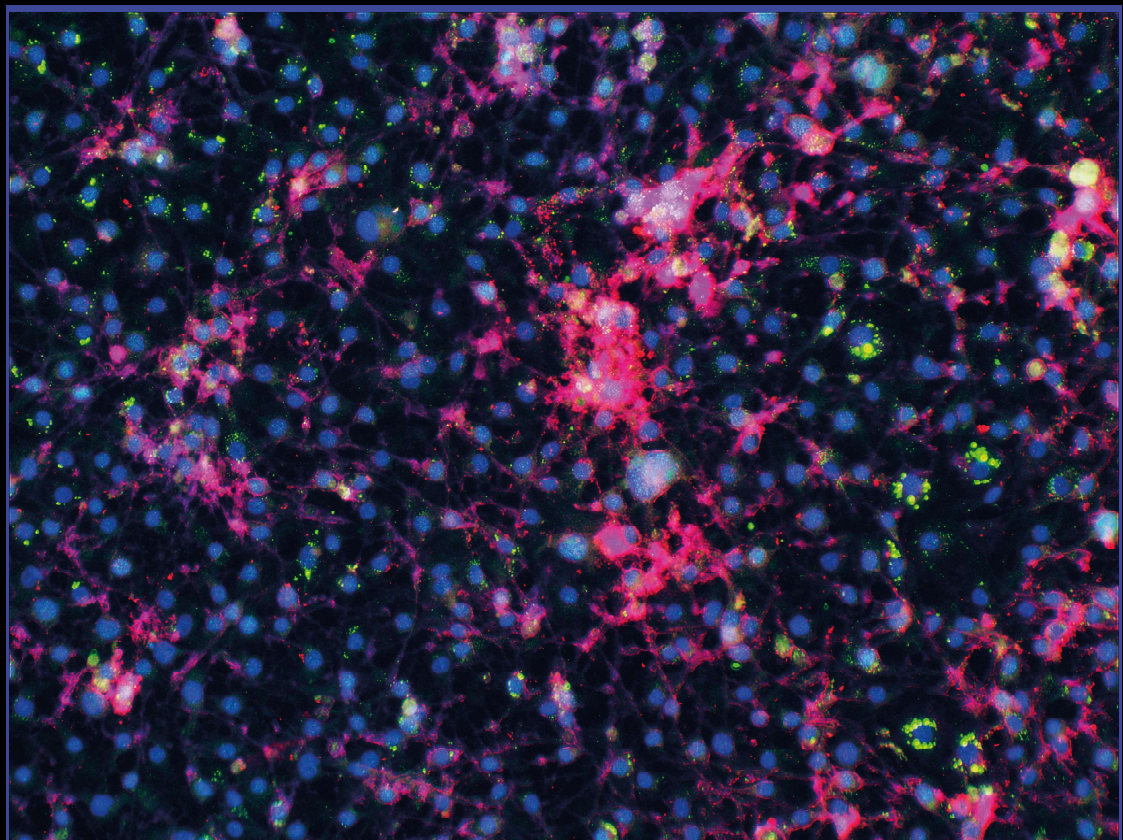
Cellular image

Drug Efficacy Study using the 239 Cell Line, DAPI / FITC / Cy5 / objective 20x merge



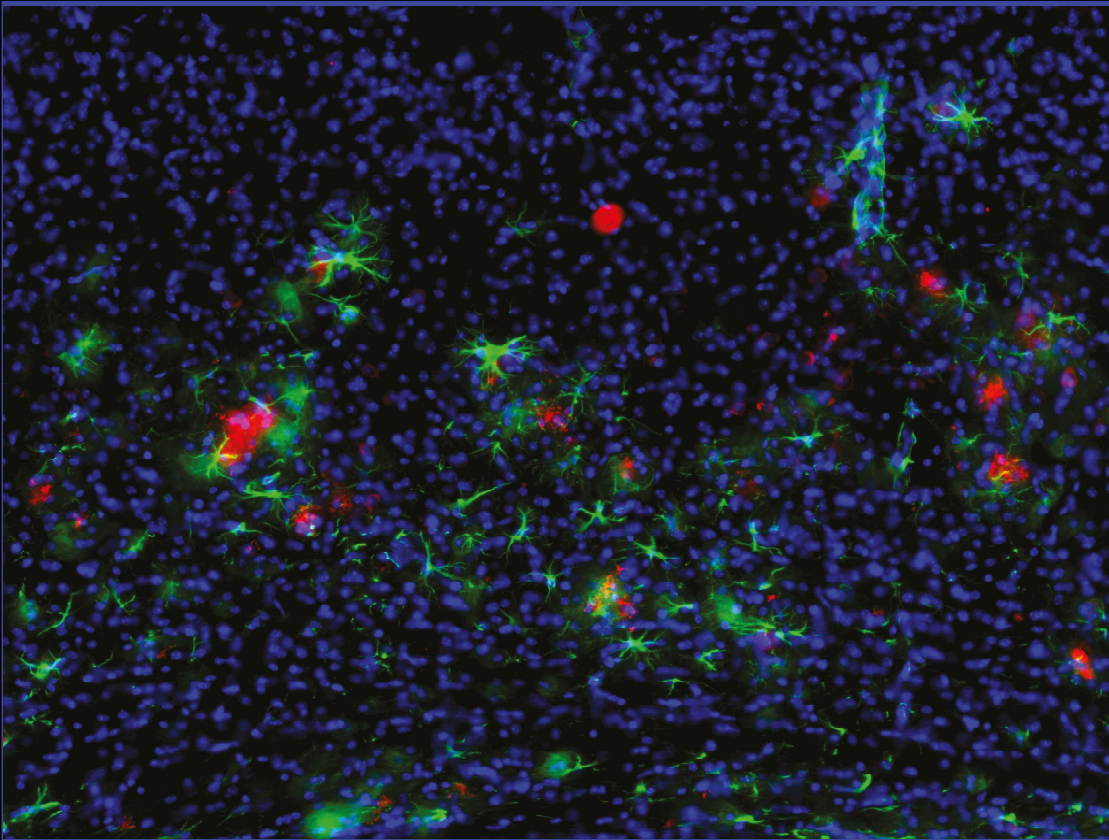
Cellular image

Mouse liver cell line, Aml12 cell line, DAPI / FITC / TexasRed / 20X objective merge



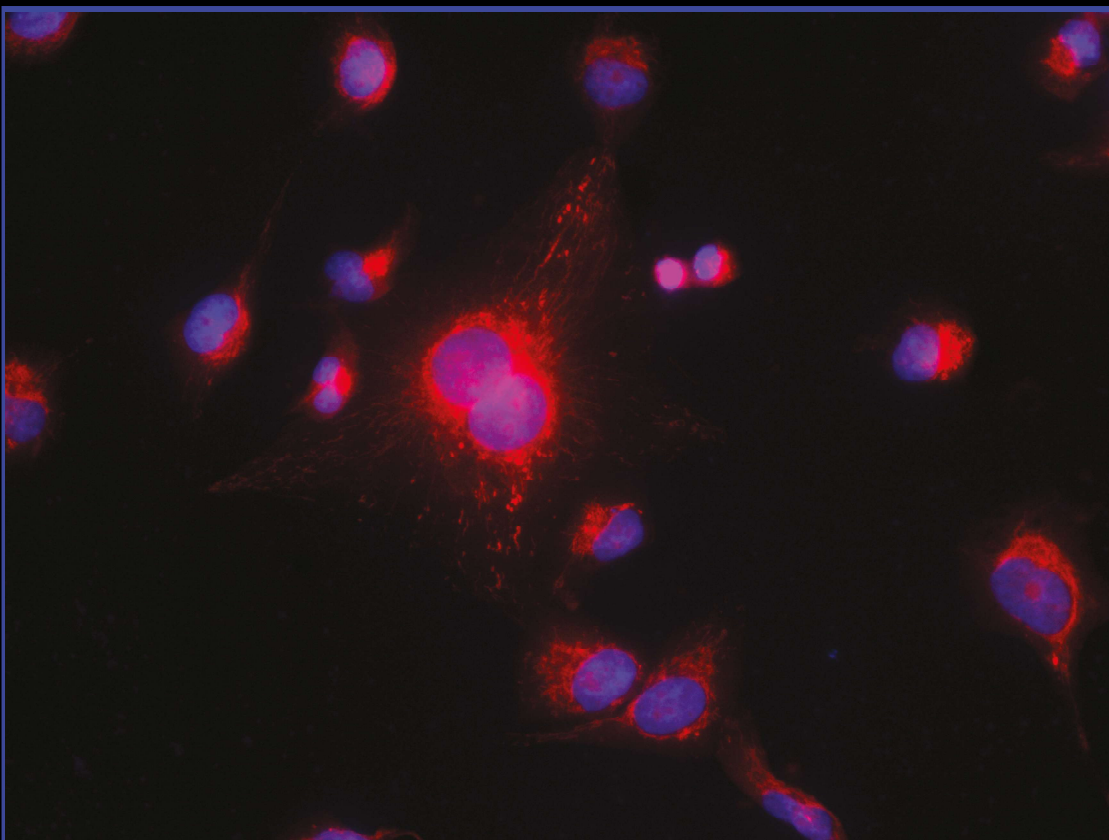
Neuroscience

This image (20x MERGE, 5 μ m) was created by stacking multiple focal planes across the Z-axis, effectively capturing the internal complexity of the organoid sample.



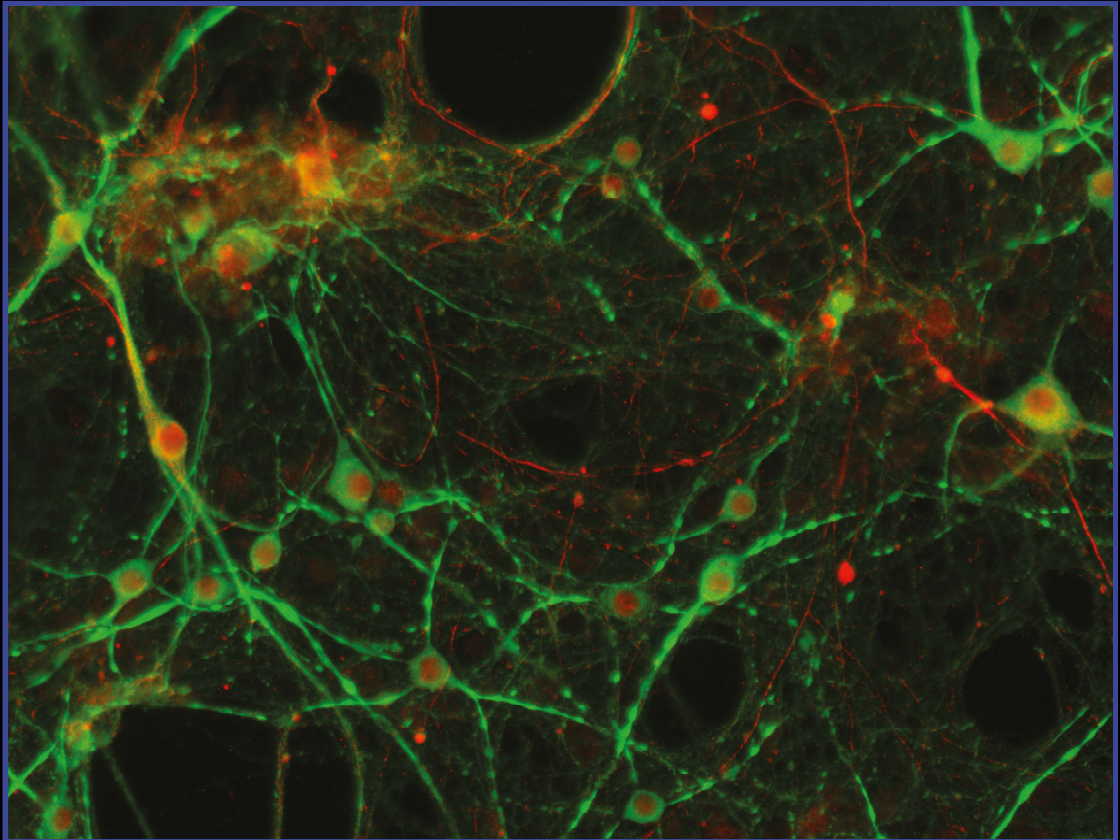
Neuroblastoma

Fluorescent image / SH-SY5Y cells stained with LysoTracker / 40X objective



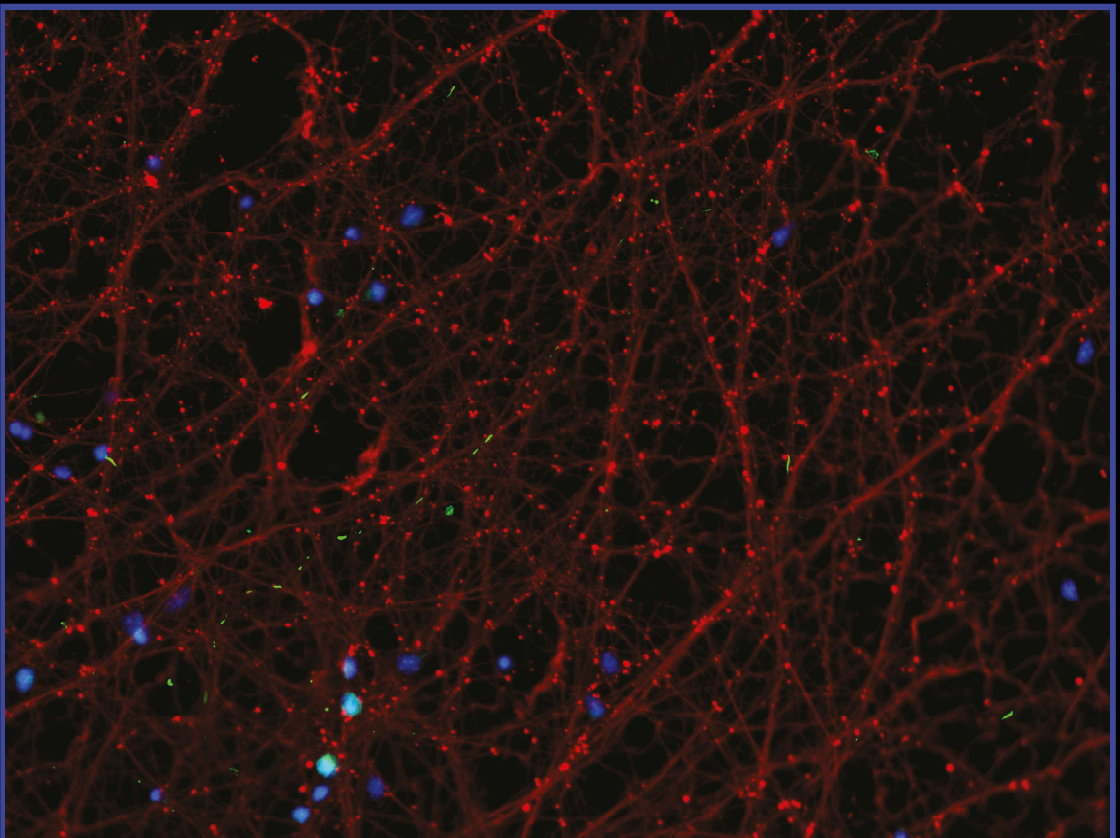
Neurotransmitter Research

This high-resolution microscopy image captures primary mouse neurons labeled with GFP-MAP2 (green) and RFP-p-asyn(Ser196) (red). The 40X objective.



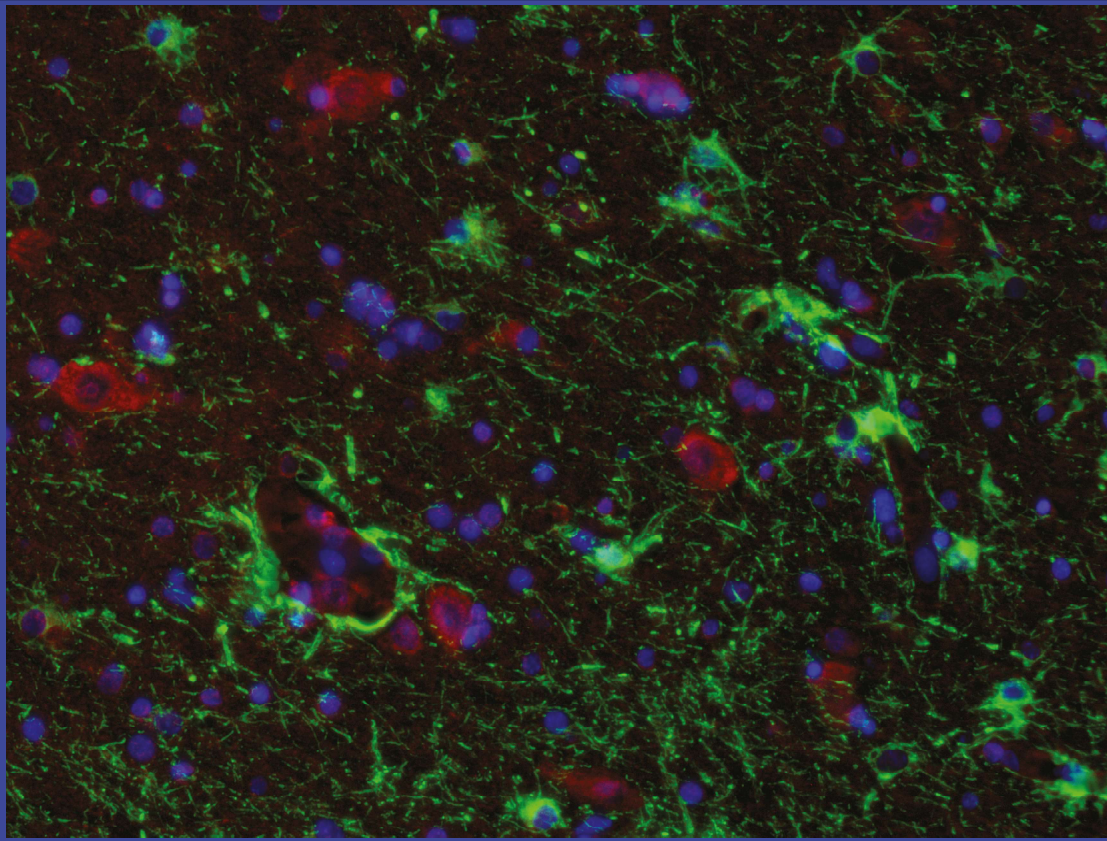
Disease Research

To study the interaction or co-localization of phosphorylated alpha-synuclein and beta-III tubulin using fluorescent staining



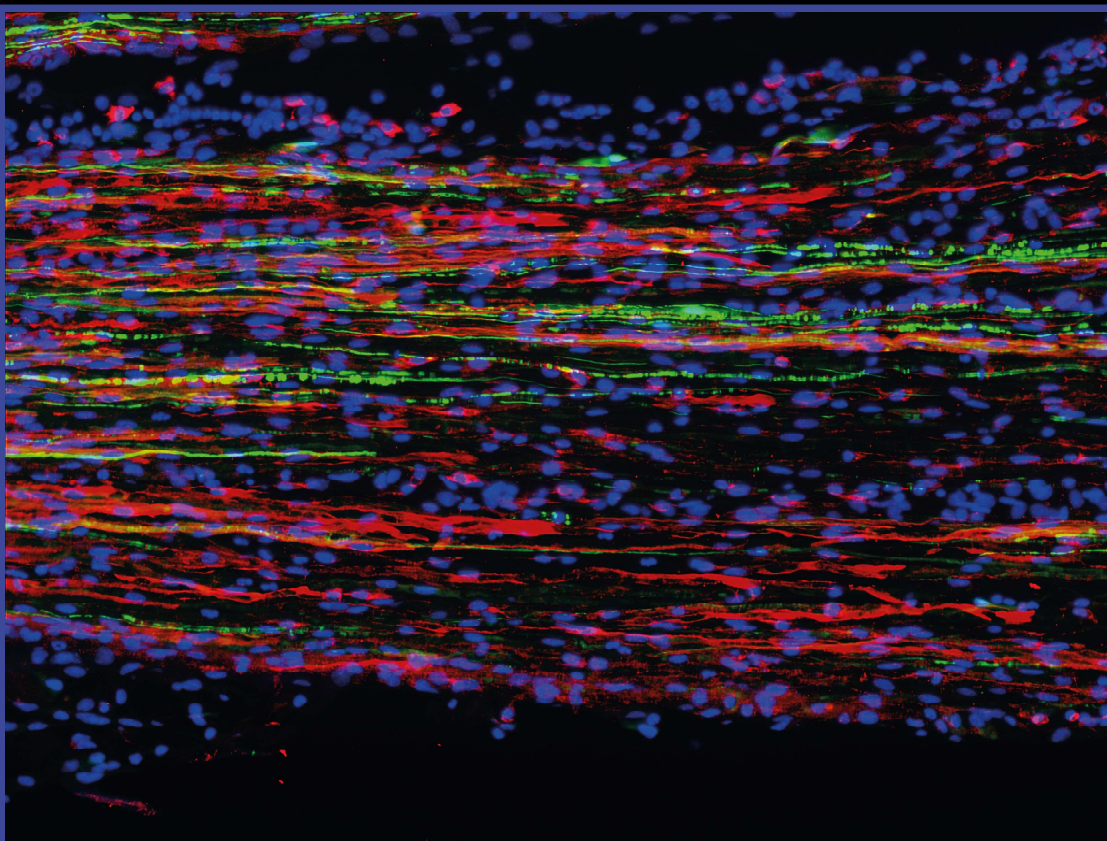
Human Brain Tissue

A21-18 Human Amyloid Disease Research: Astroglial and Tau Pathology in the Amygdala
_AMYG1 / GFAP(488) / 4Rtau(594) / 40X merge



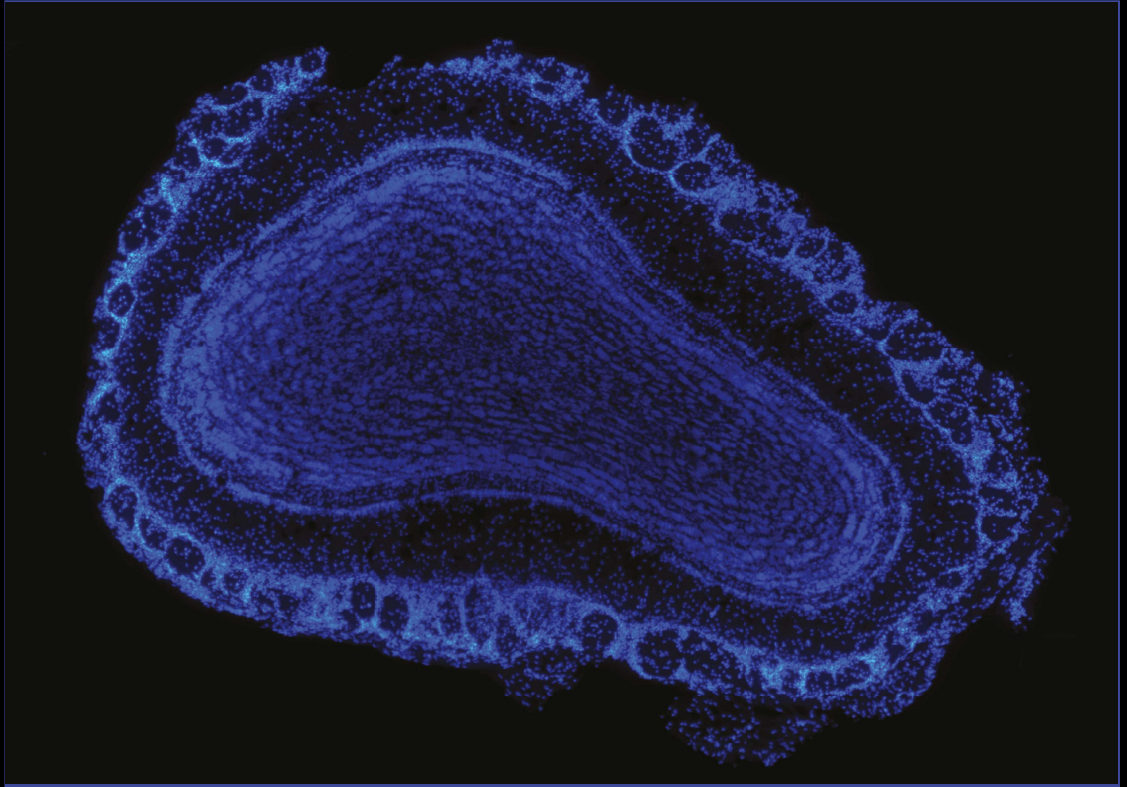
Neurodegenerative Diseases

Brain Tissue / DAPI / FITC / TexasRed / 20um section slide glass / 20X merge



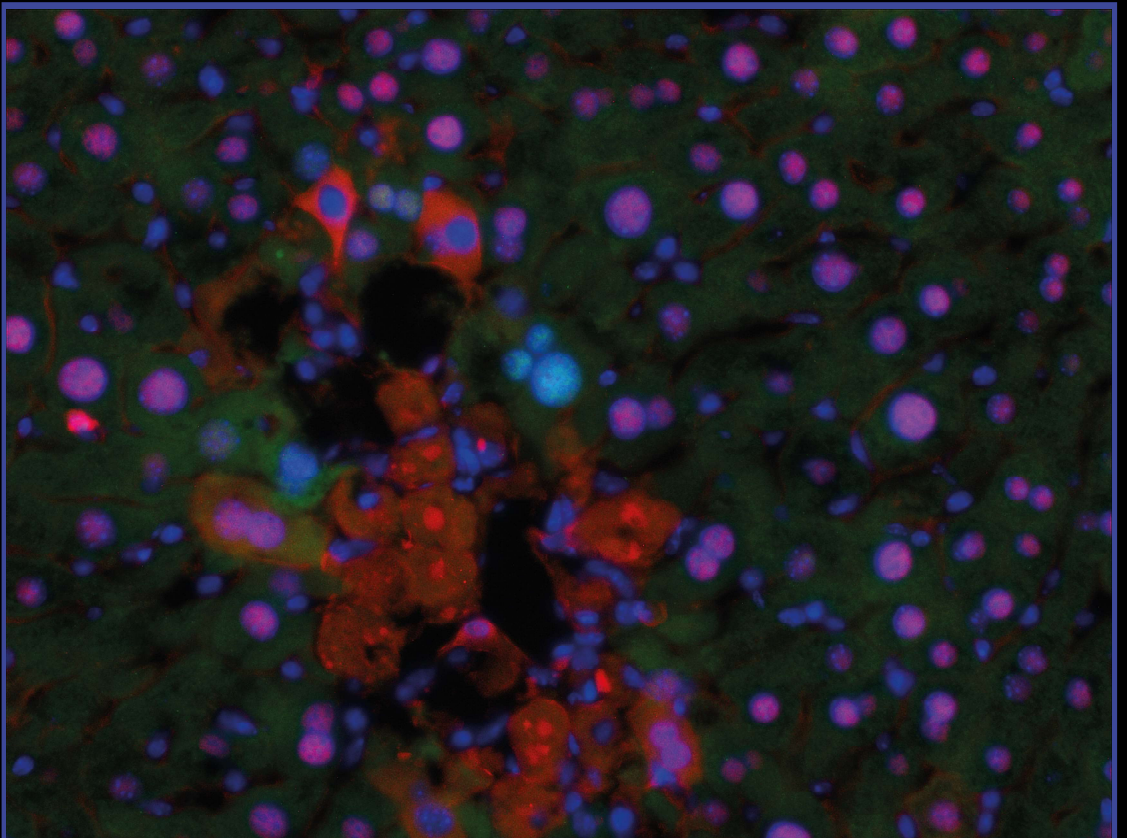
Olfactory Bulb

This DAPI-stained image, captured using a 10X objective, image stitching



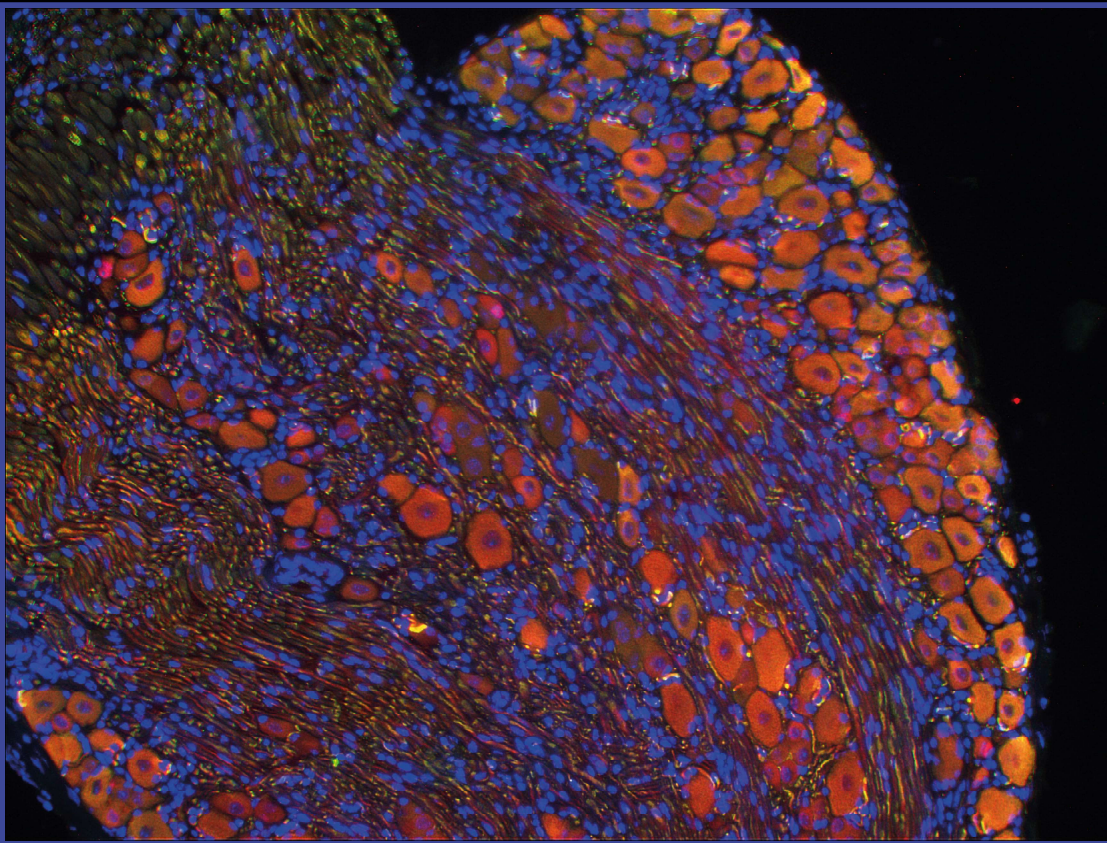
Hepatotoxicity Research

Mechanistic Assessment of Drug-Induced Hepatotoxicity,
APAP 300MPK / 48H / SOX9 / HUF4A / DAPI / FITC/ 594 / 40x merge



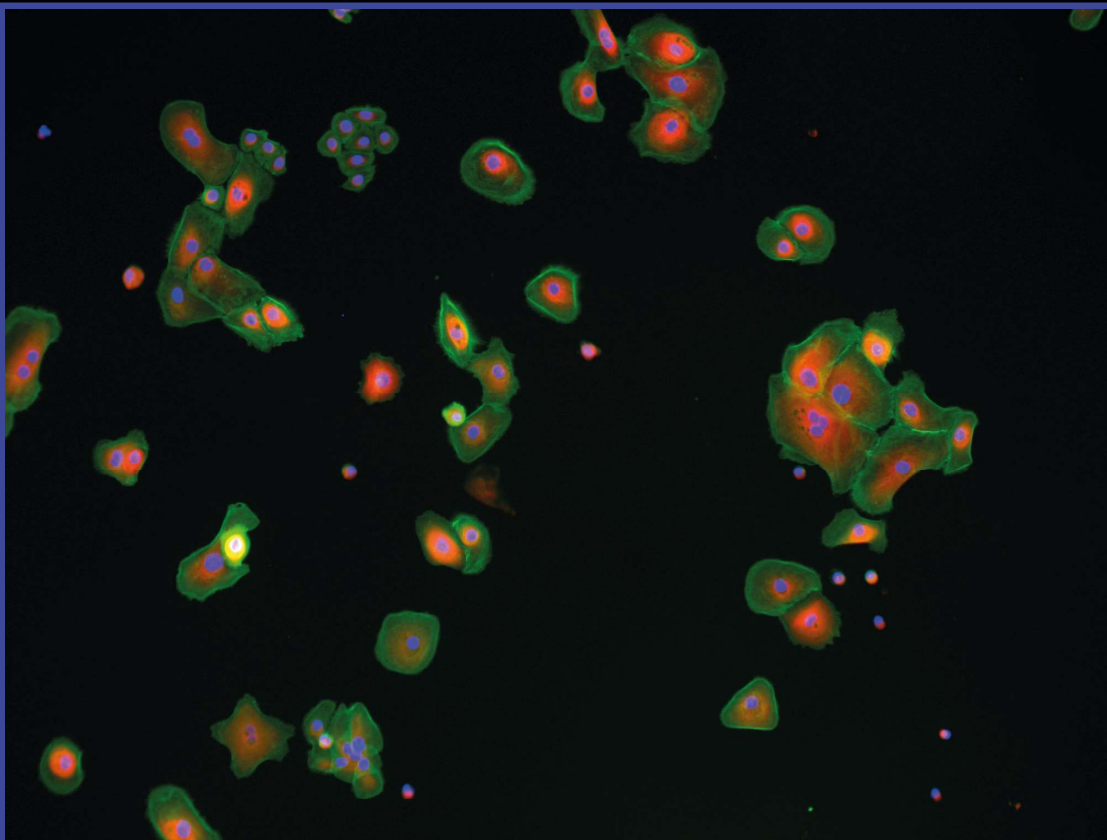
Research on Brain Diseases

Brain tissue was sectioned at 5 μm thickness for research on neurological disorders



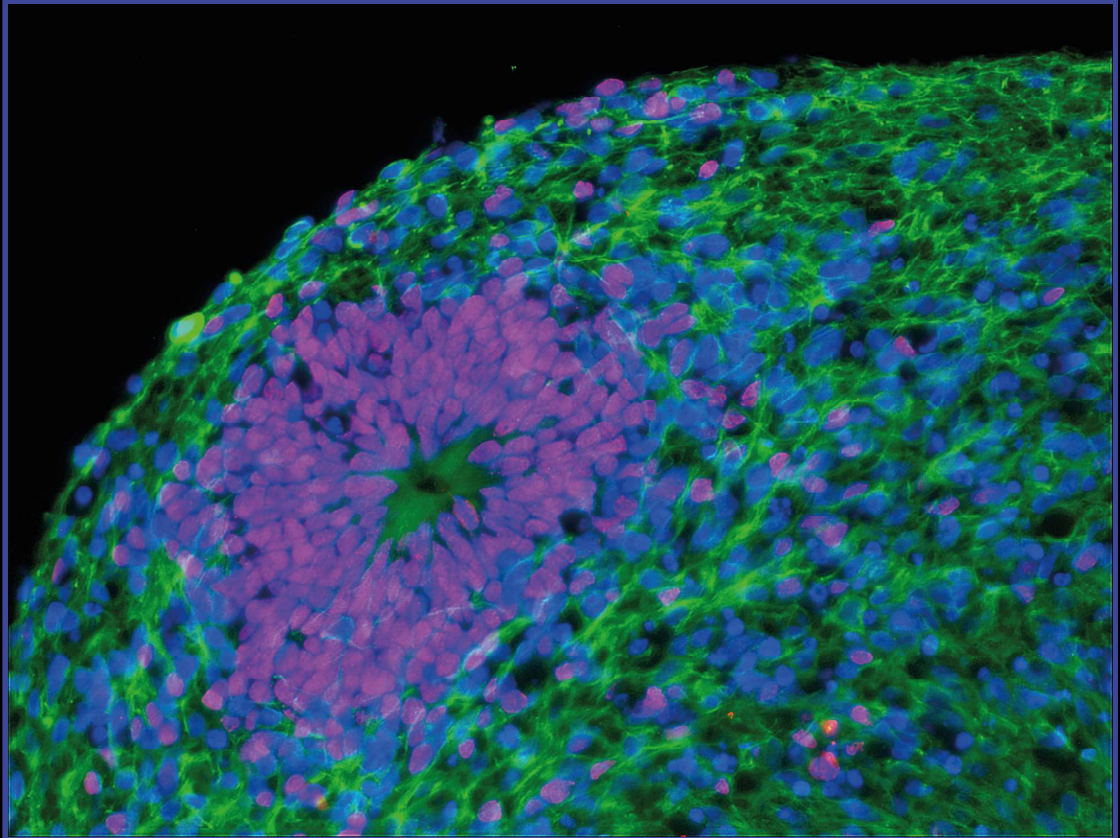
iPCS

High-Resolution Imaging of iPSC Line: Three-Channel Merge, 10X Objective



Organoid

This image (20x MERGE, 5 um) was created by stacking multiple focal planes across the Z-axis, effectively capturing the internal complexity of the organoid sample.



Organoid

Organoid , DAPI / FITC / TexasRed / 10X objective merge



Specification

Observation method	Brightfield, Fluorescence, Phase contrast
Sample Holder	Culture dish, Culture flask, well plate, Slide glass
Objectives	Lplan Fluor 4x / 0.13 Lplan Fluor 10x / 0.30 Lplan Fluor 20x 0.45 Lplan Fluor 40x / 0.65 Objective 2X, 60X,100X optional
Nosepiece	Five-position revolving nosepiece
Transmitted illuminator	Built-in White LED with Phase-contrast plate wheel
Mechanical stageStage	X-Y mechanical stage, Size 210 x 241mm, Moving range 120 x 80 mm Culture and silde glass holder
Fluorescence illumination	4-Ch LED illumination 365nm, 470nm, 550nm, 620nm Application of DAPI, Hoechst, Alexaflour 350, FITC, EGFP, Alexaflour488, Cy2 TexasRed, mCherry, AlexaFlour594, Cy5
Fluorescence filter	5-position fluorecence filter wheel Built in DAPI, FITC, Texas Red, Cy 5
Image Sensor	Built in 12MP Color camera, 1/1.7 inch sensor size Camera frame rate; 20FPS@4000X3000 / 40FPS@2000X1500 / 70FPS@1328X1000
Software	Image capture, save, apply scale bar Mode: General Mode, Fluorescence mode Measurment func.: lines, circles, ellipses, arcs, angles etc Manual and Live Merge : Fluorescence images Merge Adjustable brightness, contrast, exposure time, digital gain volume Background black blance and white blance, Deconvolution(DconEZ)
Focusing	Manual focusing and one-touch focusing (Resolution = 0.1um)
Auto Z-stack	Auto focusing and Motorized Z-stack (Resolution = 0.5um)
Weight	25.6 Kg
Dimension	W 302 x D 311 x H329 mm
Power supply	Input: 100-240 V~, 50/60 Hz, 3.5 A, Output: 19.5 Vdc., 11.8 A, 230.1 W



MADE IN KOREA

Sometimes, you don't need a confocal microscope

LEAM SOLUTION INC.

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