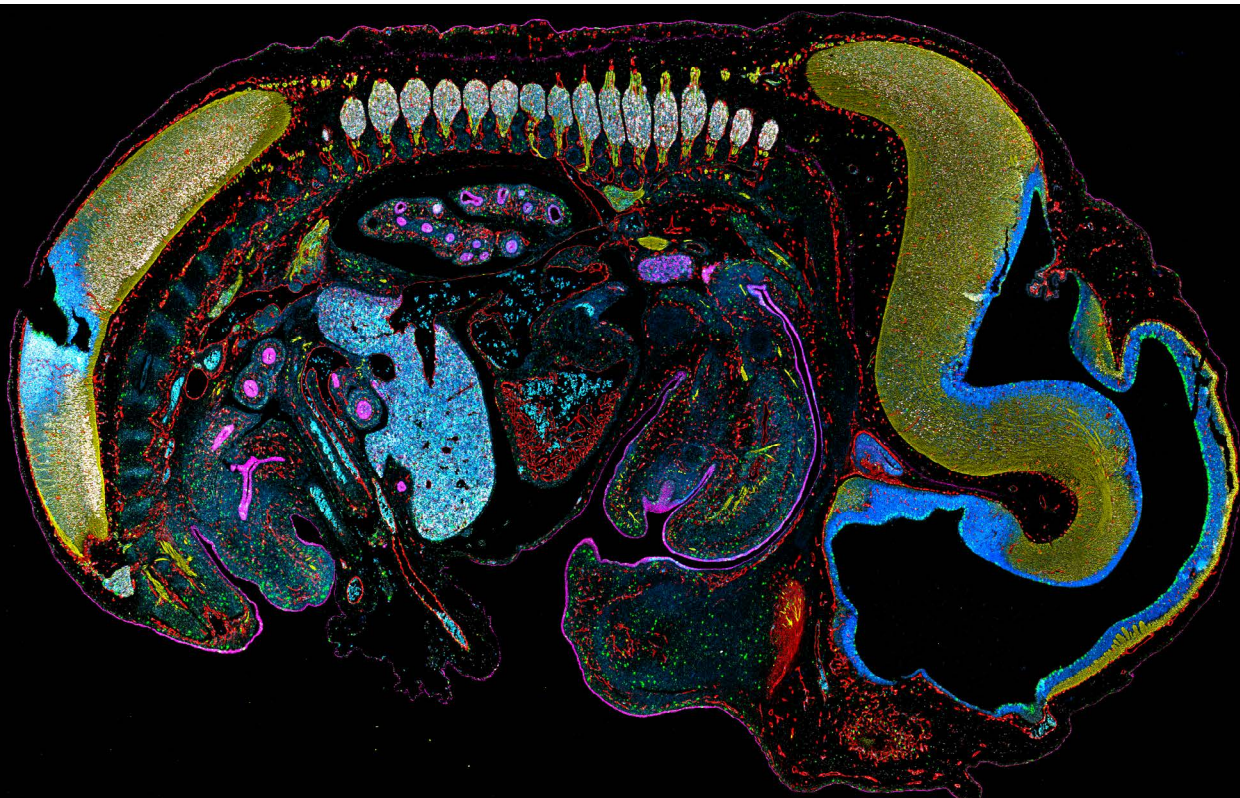


Introducing: Applied Technologies for FLUOVIEW



Advanced Solutions for Better Research Results

- **TruSpectral** : High light efficiency for bright, precise multicolor images.
- **TruSight** : Seamless deconvolution for clearer, sharper images.
- **TruFocus** : Stable time-lapse images with less phototoxicity.
- **TruResolution** : Automated correction for brighter and sharper images at depth.

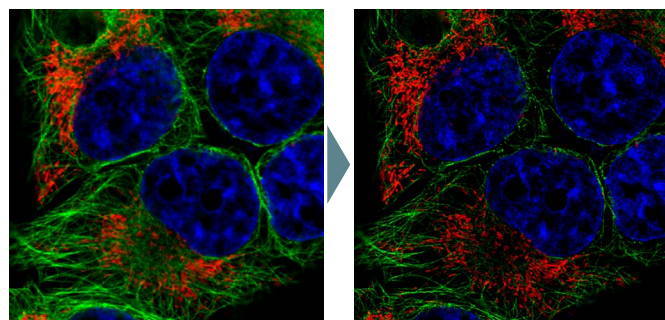
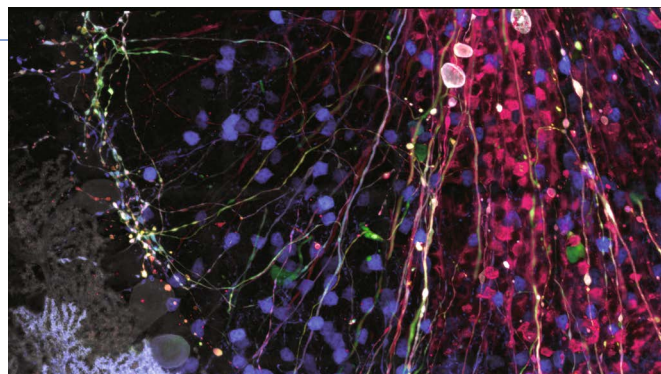


Advance Your Research with 4 Innovative Technologies for FLUOVIEW

TruSpectral - High Sensitivity Multi-Color Imaging

An integrated feature of all FLUOVIEW FV3000 confocal systems, TruSpectral technology enables much higher light throughput compared to conventional spectral detection units. TruSpectral technology employs volume phase holograms that diffract light more efficiently than traditional reflection gratings, delivering up to three-fold higher transmission for red and far-red wavelengths. The result is excellent multicolor fluorescence with low excitation light for live and fixed tissue imaging..

Brainbow AAV transfection of Purkinje cells, amplified with antibodies as described in Cai et al 2013. Visible are Purkinje cell somata, dendrites and axons, as well as some aspecific stainings of granule cells.



Without TruSight

With TruSight

TruSight - GPU Based Deconvolution

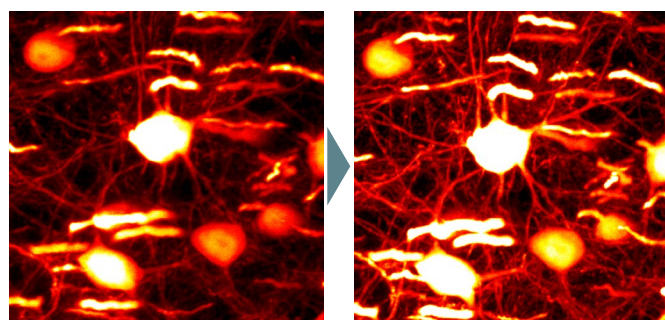
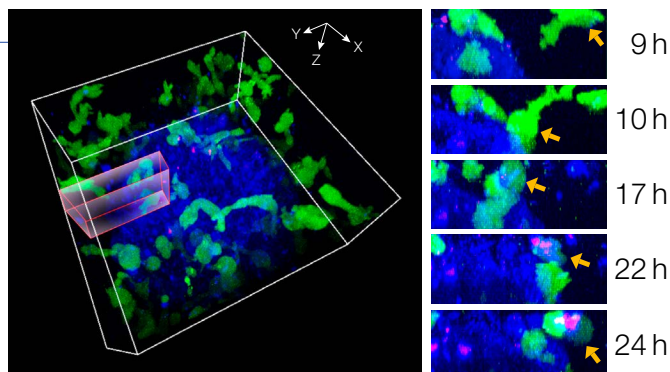
Remove blur and obtain clearer, sharper images with TruSight deconvolution. Specialized cellSens algorithms for the FLUOVIEW FV3000 confocal microscope and FVMPE-RS multiphoton microscope enable a seamless workflow from acquisition to publication with the click of a button.

HeLa cells
Blue: nuclei (DAPI)
Green: microtubules (Alexa Fluor 488)
Red: mitochondria (MitoTracker Red)

TruFocus - Stable Time-Lapse Imaging

The TruFocus system makes multiposition experiments and long-term, time-lapse imaging more robust and reliable. The system uses a minimally phototoxic beam to accurately maintain the focus position, so you don't have to worry about thermal drift caused by a change in room temperature or drug delivery during experiments.

NK cell line KHYG-1 (green) changing shape while attacking and killing HT-29 tumor cells labeled with cetuximab (blue). PI uptake (red) indicates cell death. Image data courtesy of: Dr. Yuji Mishima, The Cancer Chemotherapy Center of JFCR.



Without TruResolution

With TruResolution

TruResolution - Maximize Resolution in Deep Imaging

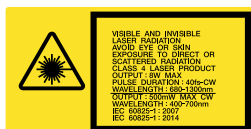
Maximize the deep imaging performance of your multiphoton microscope with TruResolution objectives. An automated correction collar compensates for spherical aberration at every depth, delivering bright, high-resolution images from the top to bottom of your image stack.

Maximum projection of mouse *in vivo* brain images acquired at around 600 μm depth (Thy1-YFP-H mouse, sensory cortex). Image data courtesy of: Dr. Hiromu Monai, Dr. Hajime Hirase and Dr. Atsushi Miyawaki, RIKEN BSI-Olympus Collaboration Center.

[cover]

5 μm sagittal cryosection of E14.5 mouse embryo, stained with TSA reagents.

Image data courtesy of: Dr. Guan Yang and Prof. Xiao Yang, Genetic Laboratory of Development and Diseases, Beijing Institute of Biotechnology, AMMS, China.



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- OLYMPUS CORPORATION is ISO9001 certified.
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- Images on the PC monitors are simulated.
- Specifications and appearances are subject to change without any notice or obligation on the part of the manufacturer.

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