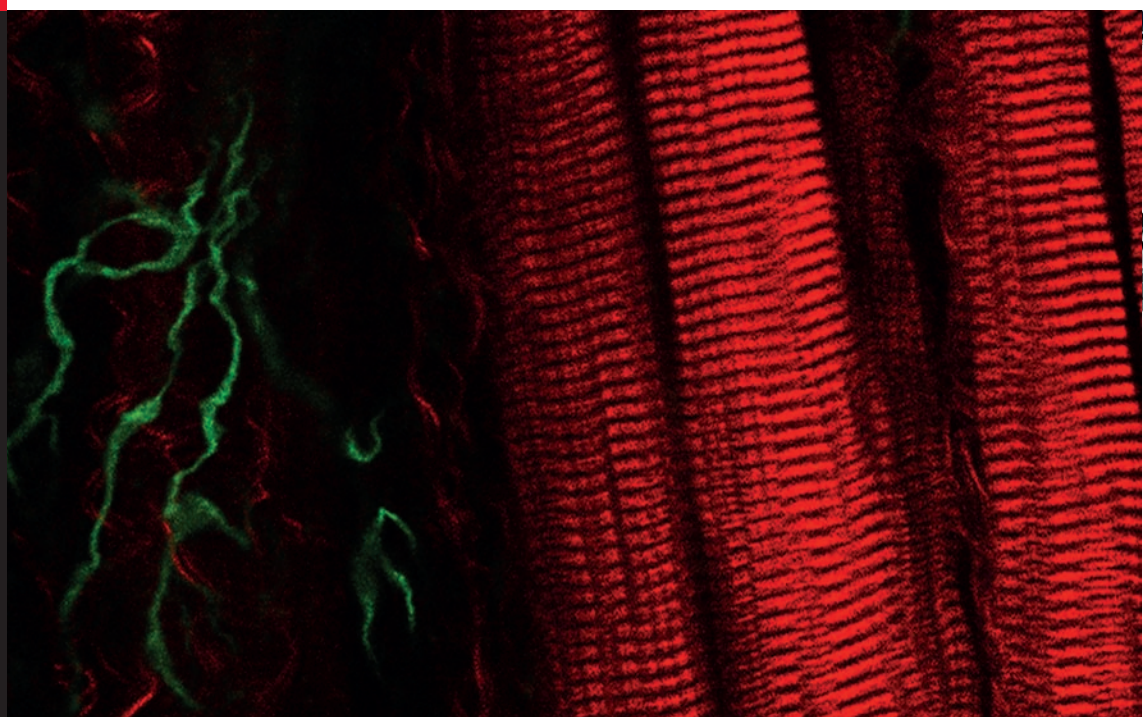
Living up to Life

Leica
MICROSYSTEMS

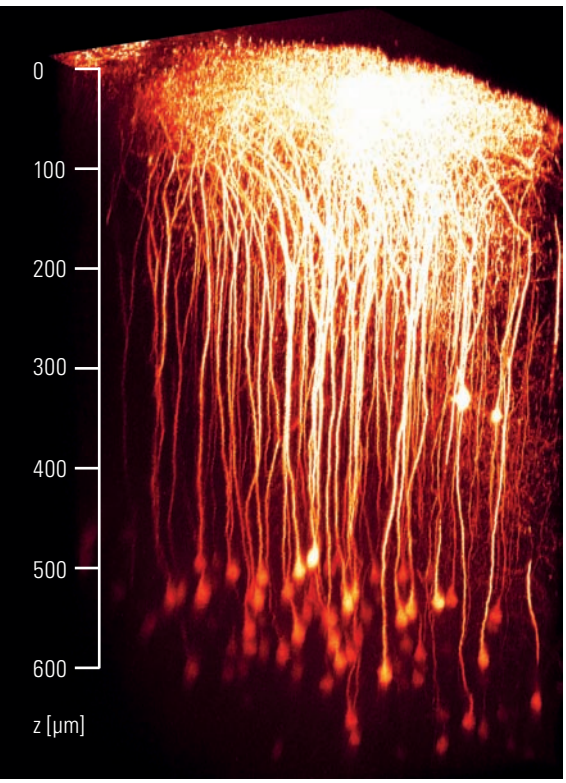


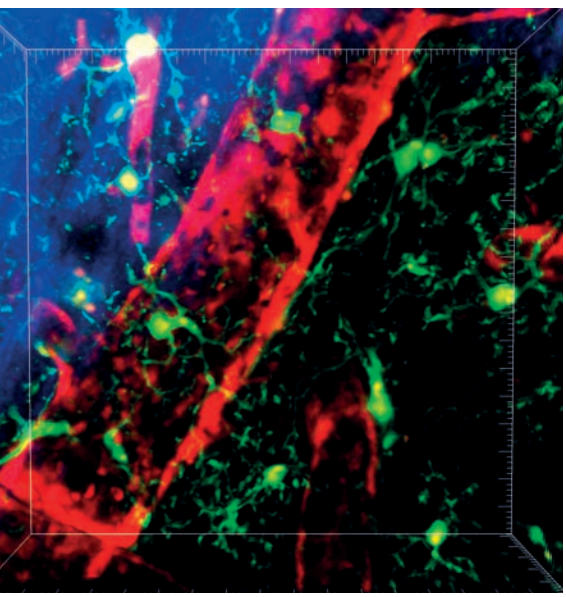
Leica TCS SP8 MP – Look Deeper Into Tissues

The perfect tool for multiphoton microscopy

- Recording of even faintest signals by collecting the maximum number of photons with super-sensititve Leica HyD™ non-descanned detectors
- Most advanced infrared lasers up to 1300 nm with prechirped femtosecond lasers and Optical Parametric Oscillator (OPO) expanding deep tissue imaging into the red
- Leica DM6000 CFS fixed stage microscope: highly sensitive intravital imaging and electrophysiological applications by the lowest electronic noise and best mechanical stability

www.leica-microsystems.com





LEICA TCS SP8 MP – YOUR PATH DEEP INTO TISSUES

Superior optics and detection for brighter, high contrast multiphoton images
New broadband anti-reflective coatings for scan optics and objectives provide highest transmission in the visible and infrared range for optimal excitation and detection. Leica IRAPO high-NA objectives are color corrected in the infrared up to 1300 nm to minimize the axial shift.

Super-sensitive Leica HyD™ non-descanned detectors efficiently collect the emitted photons resulting in brighter images from deeper tissue sections and reduce photodamage to a minimum.

More data in less time – largest field of view at highest speed
At 22 mm, the exceptionally large field of the Leica TCS SP8 allows large areas of tissue sections to be scanned in one go. Even at the highest possible speed using the 12 kHz scanner, there is no loss in resolution, sensitivity and contrast due to high-numerical aperture objectives with long free working distance of up to 2.5 mm.

Easy control from microscope software
For fast experiment setup, the microscope software LAS AF 3 provides full control of all motorized sliders and IR lasers including the prechirp unit. A wide range of additional software packages offers further functionalities, customized to your needs and always adapted to your latest applications.

The LAS AF Electrophysiology software package, for example, saves time during data evaluation by directly correlating voltage recordings with fluorescence intensity data. And the brand new LAS AF 3D Visualization wraps up your multiphoton experience and provides novel tools to interact with your 3D data by intuitive clipping, fast rendering and stereo display.

Microscope for intravital imaging and electrophysiology: Leica DM6000 CFS
The Leica DM6000 CFS fixed stage microscope provides the best mechanical stability and lowest electronical noise for your sensitive experiments. The remotely controlled 2-fold objective changer allows vibration free switching and dipping of objectives to avoid disturbing complex experiment setups. Objectives with inert ceramic fronts and color correction in the infrared are ideal for simultaneous multiphoton imaging and recording of electrophysiological data.

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