



Leica TCS CARS

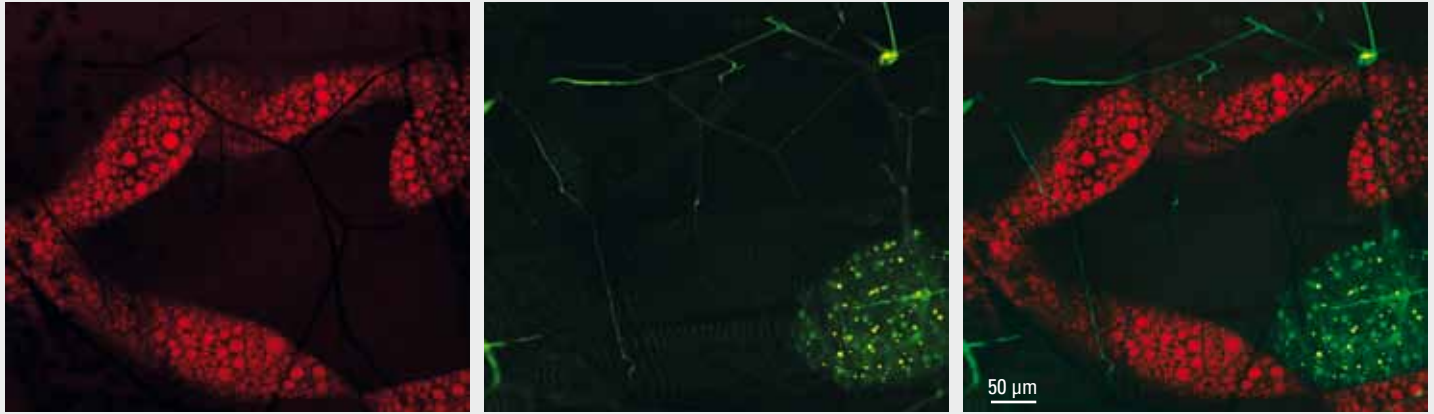
Label-free Imaging of Living Samples

- Video-rate and high resolution in one system
- Easy experiment setup with a fully integrated system
- Excellent imaging with VIS, 405 nm, IR lasers, SHG and CARS

Living up to Life

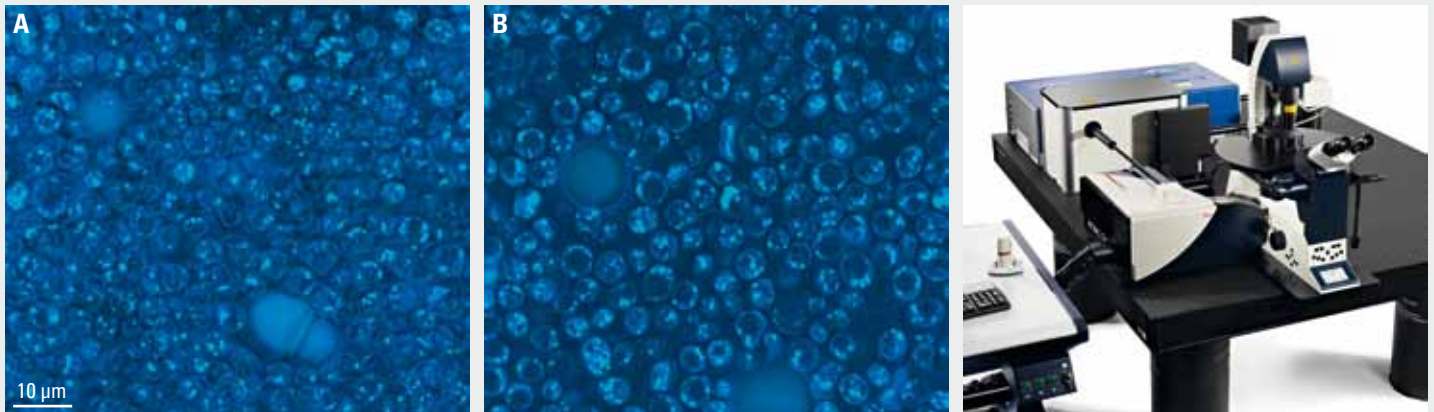
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Leica TCS CARS: Label-free Imaging of Living Samples



Unstained *Drosophila melanogaster* larvae, salivary glands and trachea.

CARS (Coherent Anti-Stokes Raman Scattering) microscopy is an imaging method for living cells or small animals without the need for staining. An infrared laser source generates the CARS signal and provides the benefit of a non-toxic, non-destructive and almost non-invasive method for prolonged live sample imaging. CARS can easily be combined with traditional fluorescence microscopy and is an excellent complementary imaging method.



A: One week old yeast cells. Medium was not changed during this time. **B:** 4 hours old yeast cells in a fresh medium.

Leica TCS CARS: true confocal system

- Excellent resolution and contrast with single point scanning system reveals the finest details
- Intelligent tools with intuitive handling in a fully integrated solution
- Turnkey system for imaging with 405 nm, visible, and infrared lasers, second harmonic generation (SHG) and CARS technology

High-speed live cell imaging and high resolution morphology – in one system!

- High-speed imaging with up to 290 fps to visualize the dynamics of life
- Morphological studies at high resolution with up to 64 megapixels per image

Upgrade to CARS at any time!

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