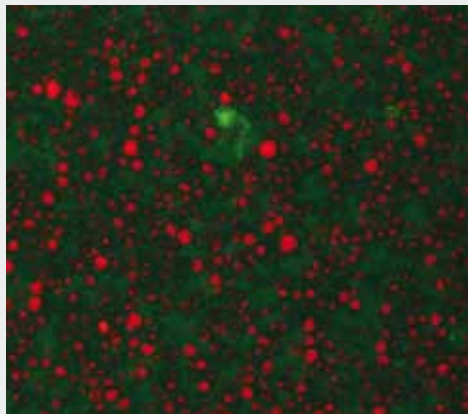20 µm

Leica TCS CARS

Label-free Imaging of Food Samples

- Follow the dynamics of lipid vesicle transport mechanisms in real time
- Ease your daily work with a fully integrated system
- Imaging of lipids with 405 nm, visible and infrared lasers,
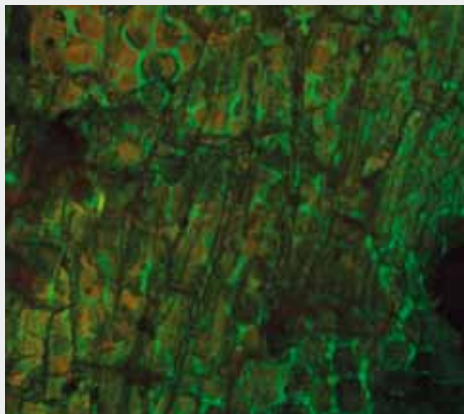 second harmonic generation (SHG) and CARS

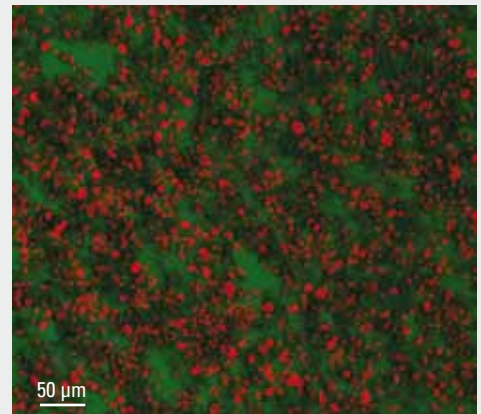## Living up to Life

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Leica TCS CARS:
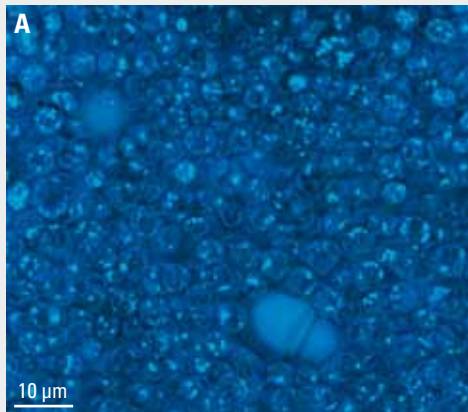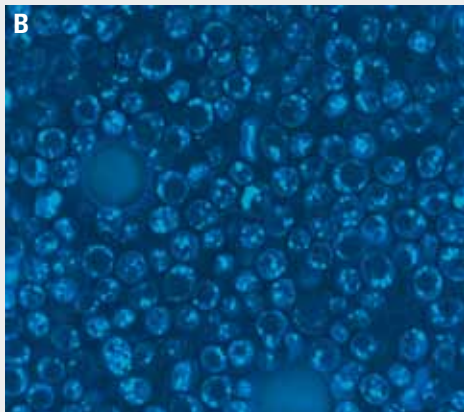# Label-free Imaging of Food Samples

Sandwich sauce

Oat flake

Cream cheese

50 µm

The Leica TCS CARS is a fully integrated system for studies of highly specific molecular bondings in unstained and native food samples. CARS (Coherent Anti-Stokes Raman Scattering) is based on the vibrational properties of molecules and is the dedicated method for analyzing different aspects of food samples such as distribution or properties of lipids or water.

A

B

10 µm

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

High-speed and high resolution lipid imaging – in one system!
- Fast tracking of dynamics with up to 290 fps
- Study of structural properties with high resolution at up to 64 megapixels per image

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

Upgrade to CARS at any time!

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AVOID EYE OR SKIN EXPOSURE TO
DIRECT OR SCATTERED RADIATION
P< 6W   350-1800nm   <40fs
IEC 60825-1: 2007

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