

Webinar

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FREE WEBINAR

Light Sources for Stimulated Vibrational Microscopy

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Technical Considerations of Modern Label-Free Stimulated Vibrational Imaging

Nonlinear optical imaging techniques that derive contrast and spectral information from vibrational resonances are at the forefront of biomedical microscopy. These techniques, which include coherent anti-Stokes Raman scattering (CARS) and stimulated Raman scattering (SRS), provide label-free and chemically selective information with considerably larger signals than traditional spontaneous Raman techniques, and thus enable rapid hyperspectral imaging of live cells and tissues. Despite the advantages of such techniques, the need for temporally controlling the interactions of at least two high-power laser pulses of different wavelengths has led to a bewildering array of experimental implementation schemes. This webinar will describe the key features of CARS microscopy and will outline the light sources used in its various experimental implementations.

Dr. Aaron Slepko is an assistant professor in the department of Physics & Astronomy at Trent University, where he holds a Canada Research Chair in the Physics of Biomaterials. His research interests include nonlinear optics and photonics, broadband laser microscopy and materials biophysics. Slepko obtained his Ph.D. at the University of Alberta, and has held postdoctoral research positions at Cornell University and the National Research Council of Canada. He has published original research on a wide range of topics from ultrafast nonlinearities of highly conjugated oligomers to few-photon light-matter interactions with atomic vapor in hollow-core photonic fiber and to applications of nonlinear multimodal imaging in geology.

MARK YOUR CALENDAR

Date: Tuesday, April 22, 2014
Time: 1:00 PM - 2:00 PM EDT

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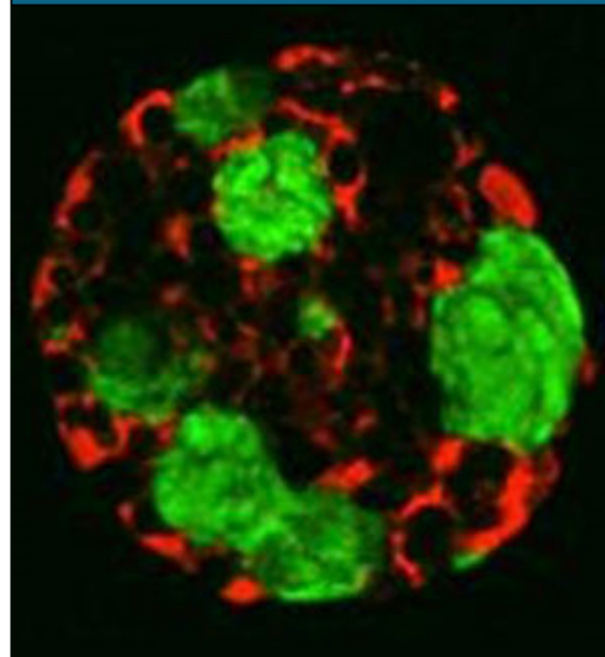
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