

# The 109<sup>th</sup> iCeMS SEMINAR

CeMI Seminar Series 29 Leica Scientific Forum Kyoto 4

**Wed 23 May 2012**  
**12:00-13:15**

Lecturer: **Prof. Xiaoliang Sunney Xie**  
Department of Chemistry and Chemical Biology  
Harvard University

## The Quest for Bioimaging with Nonlinear Optics

Venue: 2nd floor Seminar Room (#A207) Main Building  
iCeMS Complex 1, Kyoto University

In this seminar, Prof. Xie will talk about two recent advances in label-free optical imaging, from linear to nonlinear and from incoherent to coherent, allowing wide applications to biology and medicine. The first subject is the detection of single-molecule absorption signals at room temperature with high sensitivity and specificity. The second topic is in-vivo imaging of chemical species using stimulated Raman scattering microscopy with high speed, sensitivity, and specificity, based on their intrinsic vibrational frequencies.

After the seminar, an informal meet-the-speaker reception will take place at the Lounge, next to the seminar room. Please join us for more discussion with Prof. Xie.

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**Hosted by:** Leica Scientific Forum Kyoto

iCeMS (Institute for Integrated Cell-Material Sciences), Kyoto University

**Co-hosted by:** Center for Frontier Medicine, Global COE Program, Kyoto University

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