Kyoto SMI Seminar

New Fluorescent Reagents and Tools for Imaging Cellular Structure and Function

Lecturer: **Kyle Gee, Ph.D.**

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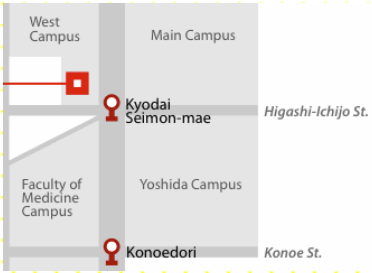
Date: **May 24th (Thu) 2012 15:00-16:00**

Venue: **Seminar Room (#A207)**
2nd Floor of the Main Building
iCeMS Complex 1, Kyoto University

Language: English



Development of new fluorescent tools for high resolution imaging of cellular structure and function at Life Technologies includes three elements: new fluorescent compounds (small molecule and Quantum Dot™ nanoparticles), enablement of fluorescent proteins, and new methods for attaching fluorescent labels to cellular targets of interest. In this talk will be included descriptions of recent advances in quantum dot nanoparticle chemistry that enable single molecule imaging and cellular structure by fluorescence microscopy. Baculovirus-enabled fluorescent proteins that are targeted to particular organelles and phenomena will be shown. Finally, new small molecule reagents will be described that enable unsurpassed interrogation of live cell phenomena in real time.

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Hosted by: NPO Kyoto SMI
Co-hosted by: Life Technologies Corporation
Innovation Management Group (IMG),
The Institute for Integrated Cell-Material Sciences (WPI-iCeMS),
Kyoto University