
The 21st iCeMS SEMINAR

Commemorating the establishment of the Center for Meso-Bio Single-Molecule Imaging (CeMI) 4

June 1, 2009
13:30-15:00

Lecturer: **Prof. Tom Kirchhausen**
Professor in Cell Biology, Harvard Medical School
Senior Investigator, Immune Disease Institute (IDI)

Dynamics of Endocytosis

Venue: **Seminar Room (#A207)**
Second Floor of the Main Building
iCeMS Complex 1

This talk will focus on the use of cutting-edge high resolution structural visualization combined with dynamic live cell fluorescence imaging techniques to understand processes involved in communication of cells with its environment, in pathogen invasion and viral infection, in cell growth control and cancer, and in the biogenesis of organelles. The goal is to generate molecular-resolution movies describing the function of machineries responsible for the control of these types of carefully choreographed interactions in cells. We will explore the regulation of the clathrin machinery engaged in classical endocytosis and will also highlight alternative modes of clathrin-based endocytosis. We will present an integrated view based on recent data from snapshots (cryoEM tomography and 3-D single-particle reconstruction, x-ray crystallography) and from dynamic imaging (live cell fluorescence microscopy) and show how they are used to inform cell, biochemical and mechanistic studies.

Contact: Harada Group at harada-g@icems.kyoto-u.ac.jp
Held by: iCeMS (Institute for Integrated Cell-Material Sciences), Kyoto University

