The 25th iCeMS SEMINAR

Commemorating the establishment of the Center for Meso-Bio Single-Molecule Imaging (CeMI) 6

Thu 10 Sep 2009
14:00-15:30

Lecturer: **Prof. Dr. Thomas Schmidt**
Physics of Life Processes, Leiden Institute of Physics
Leiden University

Single-Molecule Cell Biology

Venue: The 1st Meeting Room
1F of the West Building
Institute for Frontier Medical Sciences

Prof. Schmidt and his group develop and apply in vivo single-molecule microscopy to follow in real-time the dynamic reorganization of the nano/meso-systems in the plasma membrane, upon cellular stimulation. They concentrate on the first few steps of signal transduction pathways, the recognition of a ligand (e.g. fluorescent labeled cAMP and LPS) by a receptor fused to GFP (cAMP receptor, adenosine receptor, TOLL-like receptor, interferon receptor) in vivo, in the context of chemotaxis of dictyostelium discoidium.
In this seminar, Prof. Schmidt will cover the critical regulation mechanisms for controlling these meso-architecture-based functions.

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Hosted by: iCeMS (Institute for Integrated Cell-Material Sciences), Kyoto University
The Institute for Frontier Medical Sciences, Kyoto University
Membrane Mechanisms Project, ICOPR-JST