The 131st iCeMS SEMINAR

CeMI Seminar Series 34

February 5, 2013
10:30-11:30

Membrane Dynamics and Phosphoinositide Signaling in the Endocytic Pathway

Lecturer: **Prof. Pietro De Camilli**
Department of Cell Biology
Howard Hughes Medical Institute
Yale University School of Medicine, USA

Venue: 2nd Floor Seminar Room (#A207)
iCeMS Main Building (#71), Kyoto University

Endocytosis plays a fundamental role in all cells and a highly specialized role at neuronal synapses, where it mediates the recycling of synaptic vesicle membranes. Dr. De Camilli and his colleagues have capitalized on this highly specialized system to advance knowledge of fundamental mechanisms in endocytic membrane traffic. Dr. De Camilli will discuss how membrane deformation at endocytic sites is coupled, via adaptor proteins with curvature generating/sensing properties, to metabolic changes of phosphoinositides in the membrane bilayer and will address more generally the importance of these phospholipids in the control of membrane dynamics and interactions.

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