

The Fourteenth iCeMS SEMINAR

Lecturer: **Derek Toomre, Ph.D.**

Assistant Professor
Department of Cell Biology
Yale University School of Medicine

**"Towards understanding vesicle tethering
- the ties that bind, and don't"**

Date & Time: January 7, 2009, 10:00-11:00

Refreshments will be served from 9:45.
Please come several minutes earlier than 10:00 a.m.

Venue: Roof Terrace

Institute for Frontier Medical Sciences, 5F of the East Building

How is exocytosis controlled in space and time? Asst. Prof. Toomre uses single vesicle imaging and quantitative analysis to examine the role of the exocyst subunits in vesicle tethering. Strikingly he showed that different subunits can have different regulatory function of distinct steps. Moreover, in dividing cells, he showed that membrane traffic from both daughter cells is selectively trafficked and exocytosed at the cleavage furrow of dividing cells.

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