

# The Tenth iCeMS SEMINAR

Lecturer: **Wonhwa Cho, Ph. D.**

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## Spatiotemporal dynamics of signaling lipids and networks

Date & Time: **December 15, 2008, 16:00-17:00**

Refreshments will be served from 15:40.  
Please come a little earlier before the seminar.

Venue: **Roof Terrace**

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

Membrane lipids mediate and regulate a plethora of cellular processes, including cell signaling and membrane trafficking, but the real-time monitoring and quantification of diverse signaling lipids has been hampered by the lack of sensitive and specific probes and analytical methods. This talk will present newly developed lipid sensors, lipid dyes, lipid manipulation tools and fluorescence techniques that allows real-time quantitative monitoring of spatiotemporal dynamics of various lipids, including diacylglycerol, PtdIns(4,5)P<sub>2</sub>, and PtdIns(3,4,5)P<sub>3</sub>, and integration of lipid dynamics with downstream signaling networks.

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

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Membrane Mechanisms Project, ICOPR-JST