

The 138th iCeMS SEMINAR

CeMI Seminar Series 38

25 June 2013

13:00-14:00

Genetic analyses of mammalian cell mechanics

Lecturer: **Dr. Yusuke Toyoda**

Max Planck Institute of Molecular Cell Biology and Genetics
Dresden, Germany

Venue: Roof Terrace, Fifth Floor, Institute for Frontier
Medical Sciences East Bldg, Kyoto University

Mechanics of the cell (e.g. shape, stiffness, size) are integral to many key cellular processes. Dr. Toyoda and his colleagues (Anthony Hyman Lab at the MPI-CBG in Dresden, an iCeMS partner institution; Tony Hyman is the director of the institute) developed a method to measure cell stiffness and size by light and atomic force microscopy (AFM). These technologies will be of interest to many researchers at the iCeMS who are interested in physical and chemical properties of the cell. Furthermore, Dr. Toyoda and his colleagues performed a systematic screen for human genes to find proteins that are required for the cell stiffness.

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

Co-hosted by: Center for Frontier Medicine, Global COE Program, Kyoto University

