



**2013. 6. 25 (火)**

**13:00-14:00**

**講演者： Yusuke Toyoda 博士**

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

**演 題： Genetic Analyses of  
Mammalian Cell Mechanics**

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) developed a method to measure cell stiffness and size by light and atomic force microscopy (AFM). With this method, they performed an RNAi screen for human genes required for stiffness of the mitotic cells. Unlike RNAi screens for cell cycle genes, their AFM screen isolated a unique set of genes. Based on the results from additional assays and mass spectrometry, molecular regulations of mitotic cell mechanics will be discussed.

**場 所：京都大学 再生医科学研究所 東館 5 階ルーフテラス**

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