

MBI-UPenn Joint Symposium

Mechanobiology Institute, National University of Singapore

December 9, 2017

Venue: MBI Level 5 Seminar Room

Saturday, December 9, 2017

Time	Programme
0930-1000am	Michael Sheetz, <i>Mechanobiology Institute, Singapore</i> Non-Muscle Sarcomeres Sense Rigidity and Generate High Forces
1000-1030am	Paul Janmey <i>University of Pennsylvania, USA</i> Viscous dissipation in tissues and soft substrates affects focal adhesion formation, cell morphology, and motility
1030-1100am	Paul Matsudaira <i>Mechanobiology Institute, Singapore</i> A Strain Map of Zebrafish Gastrulation Describes the Mechanics of Convergence and Extension and Emergence of Left-Right Symmetry during Epiboly
1100-11-30am	Coffee Break
1130-1200am	Michael Ostap, <i>University of Pennsylvania, USA</i> Myosin-I motors in membrane transport, deformation, and tubulation using single molecule approaches and engineered cytoskeletal networks
1200-1230	Pakorn (Tony) Kanchanawong <i>Mechanobiology Institute, Singapore</i> Visualizing the Molecular Clutch in Cell Adhesions
1230-0100 pm	Guy Genin <i>Washington University in St.Louis, USA</i> Microenvironmental remodeling in plant and animal cell mechanobiology
0100-0200pm	Lunch
0200-0230pm	Rebecca Wells <i>University of Pennsylvania, USA</i> Mechanics of normal and fibrotic tissues
0230-0300pm	Linda Kenney <i>Mechanobiology Institute, Singapore</i> <i>Salmonella</i> as an anti-tumor agent
0300-0330pm	Simon Tang <i>Washington University in St Louis, USA</i> Effects of Advanced Glycation End-products on the Mechanobiology of the Intervertebral Disc
0330-0400pm	Lim Chwee Teck <i>Mechanobiology Institute, Singapore</i> Mechanobiology of Collective Epithelial Cell Migration
0400-0430pm	Coffee Break
0430-0500pm	Vivek Shenoy <i>University of Pennsylvania, USA</i> Multiscale model predicts increasing focal adhesion size with decreasing stiffness in fibrous matrices
0500-0530pm	Alexander Bershadsky <i>Mechanobiology Institute, Singapore</i> Integrin cell-matrix adhesions mediate and are shaped by the microtubule-myosin II crosstalk
0530-0600pm	G.V.Shivashankar <i>Mechanobiology Institute, Singapore & IFOM, Italy</i> Geometric control of genome programs