

Physics of Living Matter Symposium

Monday 2nd September

8:30	Registration
9:25	Welcome
Session 1	
9:30	Alex Dunn Stanford University <i>Molecular origins of symmetry breaking at cell-cell adhesion complexes</i>
10:00	Andrew Stannard King's College London <i>Mechanically modulating the nuclear translocation of proteins</i>
10:15	Dirk Benzinger ETH Zurich <i>Pulsatile transcription factor regulation reduces cell-to-cell variability in gene expression</i>
10:30	Ben Lehner Centre for Genomic Regulation, Barcelona <i>Solving protein structures and understanding genetic interactions using deep mutagenesis</i>
11:00	Coffee Break
11:40	Tribute to Suzanne Eaton
12:25	Lunch
Session 3	
14:00	Lukas Kapitein Utrecht University <i>Navigating the neuronal cytoskeleton</i>
14:30	Diana Fusco University of Cambridge <i>How spatial growth constraints evolution: insights from microbes and phages</i>
15:00	Maximilian Jakobs University of Cambridge <i>Microtubule polarity in axons is sorted by a molecular gradient of dynactin</i>
15:15	Colin Russell Academic Medical Center, University of Amsterdam <i>Multiscale evolution of influenza viruses</i>
15:45	Coffee Break
Session 4	
16:20	Assaf Zemel Hebrew University Jerusalem <i>Elastic interactions of cells and their role in cellular self-association</i>
16:50	Nicoletta Petridou Institute of Science and Technology, Austria <i>Tissue morphogenesis at criticality</i>
17:05	Michael Krieg The Institute of Photonic Sciences, Barcelona <i>Exploring force transmission pathways during touch and proprioception</i>
17:35	Drinks & Poster Session
19:00	Dinner & Conference Party

Tuesday 3rd September

Session 5	
9:30	Hyun Youk Delft University of Technology <i>Cells reshape habitability of temperature by helping each other replicate</i>
10:00	Serena Ding Imperial College London <i>Shared behavioral mechanisms underlie C. elegans aggregation and swarming</i>
10:15	Alison Sweeney University of Pennsylvania <i>Phase transitions and photonics in cephalopods</i>
10:45	Coffee Break
Session 6	
11:15	Sally Lowell University of Edinburgh <i>Mis-shapes, Mistakes, Misfits and how to avoid them: how do pluripotent cells make the right decisions?</i>
11:45	Henry De Belly University College London <i>Membrane tension regulates FGF driven fate choice in embryonic stem cells</i>
12:00	Jared Toettcher Princeton University <i>Optogenetic rescue of a developmental patterning mutant</i>
12:30	Lunch
Session 7	
13:45	Suliana Manley École polytechnique fédérale de Lausanne <i>Stochasticity and control in mitochondrial division</i>
14:15	Rasha Rezk University of Cambridge <i>The mechanical heterogeneity in human glioblastoma</i>
14:30	Shahaf Armon Weizmann Institute of Science <i>From Contraction Waves to Active Resistance to Rupture: Tissues as Sheets of Relaxation Oscillators</i>
14:45	Anne Grapin-Botton Max Planck Institute of Molecular Cell Biology and Genetics <i>Organoids towards an understanding of self-organization in organogenesis</i>
15:15	Coffee Break
Session 8	
15:45	Naama Barkai Weizmann Institute of Science <i>TBC</i>
16:15	Walter Federle University of Cambridge <i>Slippery surfaces and sticky feet: Biomechanics of adhesion in insects</i>
16:45	Closing Remarks & Poster Prizes