

Cell Dynamics Symposium

Tuesday, March 13, 9 am - 5 pm

1103 Bioscience Research Building, University of Maryland

Movement of cells is key to life, from the collective motion of cells during development, to the migration of immune cells as they fend off invaders and deformations of neurons as they wire up the brain. Talks will feature both experiments and modeling of cell dynamics from multiple angles.

	8:30 am	Refreshments and on-site registration (no fee)
	9:00 am	Introductory Remarks
Sean Sun (Johns Hopkins University)	9:15 am	<i>Modeling cellular volume and pressure regulation: Implications for cell shape and motility</i>
Rong Li (Stowers Institute)	10:00 am	<i>Mechanisms of actin-based force generation in cell polarity and cell division</i>
	10:45 am	Break
Thomas Blanpied (UMD Medical School)	11:00 am	<i>Actin-driven dynamics of the neuronal postsynaptic density</i>
Arpita Upadhyaya (University of Maryland)	11:45 am	<i>Cytoskeletal dynamics during lymphocyte activation</i>
Dylan Burnette (NIH)	12:05 pm	<i>How cells crawl: a role for actin arcs in the leading edge advance of migrating cells</i>
	12:25 pm	Lunch and poster session*
Anders Carlsson (Washington University)	2:00 pm	<i>Spontaneous waves and symmetry breaking of f-actin in cells</i>
Dmitrios Vavylonis (Lehigh University)	2:45 pm	<i>Excitable actin dynamics at the leading edge of crawling cells</i>
	3:30 pm	Break
Wolfgang Losert (University of Maryland)	3:45 pm	<i>Cell shape dynamics: From waves to migration</i>
Glenn Edwards (Duke University)	4:05 pm	<i>Molecular force productions, cell-shape changes, and tissue patterning during Drosophila development</i>
		Reception
	5:00 pm	

Presented by the Maryland Biophysics Program

Supported by IPST, & the Biology, Chemistry, and Physics Departments

Organizers: Wolfgang Losert, Arpita Upadhyaya

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***Poster submission is encouraged.**

Please submit the title of your poster to Stephanie Noel at sjnoel@umd.edu by **March 5th**.