

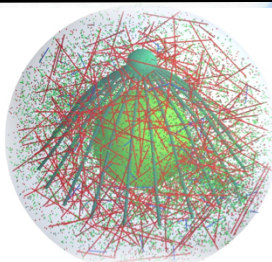
Biophysics Symposium

MECHANOBIOLOGY OF THE CYTOSKELETON: MOLECULAR AND CELLULAR PRINCIPLES

Tuesday, May 9th, 2017

1103 Bioscience Research Building, University of Maryland

9-9:30 am	Refreshments and introductory remarks
9:30-10:10 am Clare Waterman , NIH	<i>Actin retrograde flow actively aligns and orients ligand-enhanced integrins in focal adhesions.</i>
10:10-10:30 am Wolfgang Losert , UMD	<i>Physical guidance of cell migration</i>
10:30-10:50 am	Break
10:50-11:30 am Doug Robinson , JHU	<i>Cellular form: the basis of healthy function</i>
11:30-12:10 pm Paul Jamney , U Penn	<i>Compression stiffening of tissues and cells: protective role of intermediate filaments</i>
12:10-1:50 pm	Lunch & poster session
1:50-2:30 pm Dan Fletcher , UC Berkeley	<i>Vive la resistance! What the actin cytoskeleton teaches us about force</i>
2:30-2:50 pm Arpita Upadhyaya , UMD	<i>Harnessing the force: mechanical modulation of immune cell dynamics</i>
2:50-3:20 pm	Break & Posters
3:20-3:40 pm Garyk Papoian , UMD	<i>Understanding the emergence of contractility in actomyosin networks</i>
3:40-4:20 pm Fred Mackintosh , Rice	<i>Mechanical phase transitions and the elasticity of intra- and extracellular matrices</i>
4:20-5:00 pm Jonathan Howard , Yale	<i>Microtubules, motors and morphogenesis</i>
5-6 pm	Reception



Presented by the Maryland Biophysics Program
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