



# *Introducing our Research*

## Engineering and Physical Biology (EPB)

*Presentations by faculty working at the interface  
of engineering, physics, and biology*

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### **Talk Schedule**

9:00 – 9:15	Adam Cohen	Introduction
9:15 - 9:30	Joanna Aizenberg	Cell morphogenesis on a bed of nails
9:30 - 9:45	Jacquese Dumais	Dynamical systems for cell division
9:45 – 10:00	Nancy Kleckner	Physical biology of chromosome dynamics
10:00 - 10:15	Dan Needleman	Physical aspects of spindle self-organization
10:15 - 10:30	David Jeruzalmi	The machinery of DNA replication and repair
<b>BREAK</b>		
11:00 - 11:15	Rachelle Gaudet	Molecular basis of temperature and pain sensing
11:15 - 11:30	Guido Guidotti	Membrane protein dynamics
11:30 - 11:45	Bence Olveczky	Neurology of learned movements
11:45 – 12:00	Andrew Kiruluta	Computational neuroimaging: from diffusion to conductivity
<b>LUNCH</b>		
1:00 - 1:15	Adam Cohen	Physical probes of molecules and cells
1:15 - 1:30	Bob Westervelt	Integrated circuit/microfluidic chips for medicine & biology
1:30 - 1:45	Ron Walsworth	Development of new MRI and optical tools for bioimaging
1:45 – 2:00	Eric Mazur	TBA
2:00 - 2:15	Erel Levine	Biological information processing
2:15 - 2:30	Howard Berg	See E. coli run
2:30 - 2:45	Xiaowei Zhuang	Nanosopic imaging of cells
<b>BREAK</b>		
3:00 - 3:15	Sunney Xie	Probing dynamics of single molecules and single cells
3:15 - 3:30	L. Mahadevan	Morphogenesis
3:30 - 3:45	Samara Reck-Peterson	Single molecule dynamics of molecular motors

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*Come listen to and discuss with faculty from CCB, MCB, OEB, Physics & SEAS  
and find out more about the EPB graduate track*

**Tuesday, September 1, from 9am to 4pm**  
**Fairchild Lecture Hall, 7 Divinity Ave, 1<sup>st</sup> floor**

For more info, contact Jim [epb@fas](mailto:epb@fas); 5-4477 or go to [www.physicalbiology.fas.harvard.edu](http://www.physicalbiology.fas.harvard.edu)

