



# Bio-X Symposium



# MECHANO- BIOLOGY: Pushing and Pulling on Life

**Thursday,  
November 6th, 2014  
Clark Center Auditorium**

This Symposium aims to educate attendees from different disciplines about Mechanobiology by presenting talks on sensory systems, mechanically mediated cellular signaling, and the role of mechanics in homeostasis. If you would like to present your research at the Poster Session on the topic of Mechanobiology at the symposium, please register at the link below by October 6:

<https://docs.google.com/spreadsheet/viewform?fromEmail=true&formkey=dDJldnN6cW00ejJfWfVta2pKRIV3U1E6MA>

**9:00am**

Welcome and Introduction

**9:15am**

Chemomechanical Markers and Modulators of Stem Cells:  
Pulling It All Together  
Krystyn Van Vliet, Massachusetts Institute of Technology

**10:00am**

Chromosome Segregation: Mechanical Integrity with Dynamic Parts  
Sophie Dumont, University of California, San Francisco

**10:45am**

Coffee Break

**11:15am**

Postdoctoral Fellows Talks

**12:30pm**

Lunch - Students may register for lunch with faculty

**1:45pm**

Touch As a Matter of Fat and Mechanics  
Miriam Goodman, Stanford University

**2:30pm**

A Leaky Pipeline: Matrix Mechanics in Vascular Form and Function  
Cindy Reinhart-King, Cornell University

**3:15pm**

Coffee Break

**3:45pm**

Mechanical Regulation of Cell Adhesion and Migration  
Margaret Gardel, The University of Chicago

**4:30pm-6:00pm**

Poster Session and Refreshments

#### **Symposium Organizers:**

**Beth Pruitt - ME, MCP by courtesy, Bio-X**  
**W. James Nelson - Biology, MCP, Bio-X**