PLANT BIOPHYSICS: MECHANISMS, MODELS and MIMETICS

Harvard Plant Biology Initiative PBI

9th Annual Symposium May 8, 2014 at Weld Hill



	May 8, 2014 at Weld Hill
8:30am	REGISTRATION
9:00am	Introductory Comments
9:00-9:45am	Daniel Cosgrove, Pennsylvania State University Rethinking the architecture of growing plant cell walls and the mechanism of cell wall loosening
9:45-10:30am	L. Mahadevan, Harvard University Geometry and physics of plant morphogenesis and movement: cells, stems, leaves and flowers
10:30-10:50pm	TEA
10:50-11:35pm	Richard Smith, Max Planck Institute for Plant Breeding Research 3D models of growth and cell division in the Arabidopsis embryo
11:35-12:20pm	Olivier Hamant, École Normale Supérieure de Lyon <i>How to fold a plant tissue?</i>
12:20-1:40pm	LUNCH
1:40-2:25pm	Mimi Koehl, University of California, Berkeley How kelp produce blade shapes suited to different flow regimes
2:25-3:10pm	Lorna Gibson, Massachusetts Institute of Technology Hierarchical structure and mechanics of plant materials
3:10-3:30pm	TEA
3:30-4:15pm	Peter Fratzl, Max Planck Institute for Colloids and Interfaces Mechanisms for passive actuation in plant materials
4:15-5:15pm	Elliot Meyerowitz, California Institute of Technology How mechanical and chemical signals interact to create plant form

5:15-6:15pm

RECEPTION