



# PHYSIOLOGY

2009

## LECTURE SCHEDULE

DATE	TIME		
Mon., June 15	9 a.m.	Mike Davidson <i>Florida State</i>	<i>Fluorescent proteins and optical highlighters</i>
Tues., June 16	9 a.m.	Ted Salmon <i>UNC</i>	<i>Kinetochore protein architecture and function</i>
	4 p.m.	Hernan Garcia <i>Cal Tech</i>	<i>How Matlab changed my life and how it can change yours!</i>
Wed., June 17	9 a.m.	Kevin Foster <i>Harvard University</i>	<i>Social evolution in microbes</i>
	4 p.m.	Ethan Garner <i>Harvard University</i>	<i>How to keep you proteins happy when you take them out of the cellular environment</i>
Thurs., June 18	9 a.m.	Ron Vale <i>UCSF</i>	<i>Molecular motors: then and now</i>
	4 p.m.	Kurt Thorn <i>UCSF</i>	<i>Visualizing cell structure</i>
Fri., June 19	9 a.m.	Sunney Xie <i>Harvard University</i>	<i>A life changing decision made by a single-molecule stochastic event: Deciphering a genetic switch in a living bacterial cell</i>
	4 p.m.	Mike Springer <i>Harvard University</i>	<i>What can modeling tell us about biology?</i>
Sat., June 20	9 a.m.	Julie Theriot <i>Stanford University</i>	<i>Cells on the move: mechanics and motility</i>
	4 p.m.	Bob Fischer <i>NIH/NHLBI</i>	<i>How and why to purify proteins &amp; protein complexes</i>

***All lectures held in Lillie Auditorium, unless otherwise noted.***



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DATE	TIME		
Mon., June 22	9 a.m.	Faculty Intros	<i>Faculty Intros</i>
Tues., June 23	9 a.m.	Ed Munro <i>Univ Washington</i>	<i>Dynamics of cell polarization in C. elegans.</i>
Wed., June 24	9 a.m.	Tim Springer <i>Harvard University</i>	<i>Mechanochemistry in integrin activation and function</i>
Thurs, June 25	9 a.m.	Val Weaver <i>UCSF</i>	<i>Matrix mechanics modifies morphogenesis and malignancy</i>
Fri., June 26	9 a.m.	Katerina Ribbeck <i>Harvard University</i>	<i>Biogels- From nuclear pores to mucus</i>
Sat., June 27	9 a.m.	Wallace Marshall <i>UCSF</i>	<i>How cells measure size</i>
Mon., June 29	9 a.m.	Jim Ferrell <i>Stanford University</i>	<i>Positive feedback loops and bistability</i>
Tues., June 30	9 a.m.	Paul Davies <i>Arizona State</i>	<i>In search of a shadow biosphere</i>
Wed., July 1	9 a.m.	Dave Weitz <i>Harvard University</i>	<i>Rheology of reconstituted biopolymer networks to probe of cell mechanics</i>
Thurs., July 2	9 a.m.	Francois Nedelec <i>EMBL Heidelberg</i>	<i>The effects of chromatin on the shape of the mitotic spindle</i>
	4 p.m.	Dave Weitz <b>Horizons Lecture</b>	<i>Molecular motors mix it up: Steady forces and random fluctuations</i>
Fri., July 3	9 a.m.	Jennifer Lippincott-Schwartz <i>NIH/NICHD</i>	<i>Insights into organelle biogenesis and near molecular protein distribution using photoactivatable fluorescent protein technology</i>
	10– 5	<b>Research Symposium</b>	

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2009

## LECTURE SCHEDULE

DATE	TIME		
Mon., July 6	9 a.m.	Faculty Intros	<i>Faculty Intros</i>
Tues., July 7	9 a.m.	Anna Huttenlocher <i>Univ Wisconsin</i>	<i>Leukocyte chemotaxis and trafficking in vivo using zebrafish models of acute and chronic inflammation</i>
Wed., July 8	9 a.m.	Gaudenz Danuser <i>Scripps</i>	<i>Interactions between cytoskeleton dynamics and endocytosis</i>
Thurs., July 9	9 a.m.	Bob Goldman <i>Northwestern</i>	<i>Intermediate filaments: Dynamic components of the nucleo- and cytoskeletal systems in vertebrate cells</i>
Fri., July 10	9 a.m.	Dennis Discher <i>Univ Pennsylvania</i>	<i>Matrix mechanics modifies morphogenesis and malignancy</i>
Sat., July 11	9 a.m.	Anna Ahkmanova <i>Erasmus</i>	<i>Regulation of cell architecture by microtubule plus-end tracking proteins</i>
Mon., July 13	9 a.m.	James Nelson <i>Stanford</i>	<i>Cross-talk between cell adhesion complexes in the control of morphogenetic cell movements</i>
Tues., July 14	9 a.m.	Rick Horwitz <i>University of Virginia</i>	<i>Adhesion in cell migration - taking steps and telling tails</i>
Wed., July 15	9 a.m.	Rob Phillips <i>CalTech</i>	<i>Order of magnitude biology</i>
Thurs., July 16	9 a.m.	Clare Waterman <i>NIH/NHLBI</i>	<i>Integrating actin dynamics and adhesion in cell migration</i>
	4 p.m.	Rick Horwitz <b>Horizons Lecture</b>	<i>Cell migration - looking rearward and forward</i>
Fri., July 17	9 a.m.	Martin Schwartz <i>University of Virginia</i>	<i>Regulation of growth signaling by integrins</i>
Sat., July 18	9-5	<b>Research Symposium</b>	

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