

PRISE 2008 -- FINAL PRESENTATION SCHEDULING MATRIX

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| PRISE Program Assistant Scheduler | STEPHANIE LO | SCOTT KOMINERS | CHRISTINA TARTAGLIA |
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Wednesday, August 13, 2008

| Date/Location in Science Ctr | 3:30pm-3:48pm | 3:50pm-4:08pm | 4:10pm-4:28pm | 4:30pm-4:48pm | 4:50pm-5:08pm | 5:10pm-5:30pm |
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| Wednesday, 8/13 Room 221 Introducer: Scott Kominers | Pablo Azar , Applied Math, Learning through evolution (Leslie Valiant) | | Peter Hedman , Earth and Planetary Science, Modeling Martian meteorites: shocking magnetic minerals (Sarah Stewart-Mukhopadhyay) | Baris Ercal , MCB, Lipid chaperones and their effect on lipid and systemic metabolism (Gokhan Hotamisligil) | Megan Blewett , CCB, Molecular mimicry in the etiology of multiple sclerosis (EJ Corey) | Leslie Beh , CPB, Investigating novel biochemical activities of polycomb proteins (Nicole Francis) |
| Wednesday, 8/13 Room 222 Introducer: Christina Tartaglia | Sarah Anoke , Chemistry, Collagen Alignment: A macroscopic approach to a microscopic task (Debra Auguste) | Tope Lanre-Amos , Neuroscience and Psychology, Implications of neuronal oscillations for cognitive function and disease (Bernat Kocsis) | | Sheng Si , Neurobiology, A possible molecular mechanism for reproductive suppression of mice under predator-induced stress (Catherine Dulac) | Allen Cheng , Chemistry, Screening for specific histone deacetylase inhibitors via small-molecule microarrays (Jon Clardy) | James Pelletier , Chemical and Physical Biology, Physical model of the bacterial chromosome and its relation to cell growth in <i>E. coli</i> (Suckjoon Jun) |
| Wednesday, 8/13 Room 309 Introducer: Stephanie Lo | Michael Lin , Biochemical Sciences, Understanding the sonic hedgehog signaling pathway's role in muscle development (Amy Wagers) | Alex Gitlin , Chemistry and Physics, Molecular Regulation of Pancreatic Cellular Identity and Function (Stuart Schreiber) | Kyel Gibler , Economics, Seeing the Forest O'er the Trees: Memory Processing in Sleep (Robert Stickgold) | Kelly Mooney , MCB, How cells think : Modulation of the hyperosmotic stress response by carbon source (Erin O'Shea) | Lisa Schechner , MCB, Investigating CD39: Using detergents to determine kinetics and structure (Guido Guidotti) | Iris Odstrcil , MCB, Discovery of genes involved in the synaptic partner choices of All retinal neurons (Joshua Sanes) |
| Wednesday, 8/13 Room 309A Introducer: Raj Manrai | Kevin Leu , Chemistry, Survival of genetic material in the prebiotic world (Irene Chen) | Victoria Liu , Molecular and Cellular Biology, The roles of Fci-1 gene in <i>C. elegans</i> early embryonic development (Matthew Michael) | Ana Garcia , Biomedical Engineering, Turn up the Heat: Low Birth Weight and its Effects on Diabetes Risk and Brown Adipose Tissue Thermogenesis (Mary E. Patti) | Nora Sluzas , Environmental Science and Public Policy, Modeling China's Wind Power Potential (Michael McElroy) | Prabhas Pokharel , Computer Science, Code security: Writing verified compilers (Greg Morrisett) | Andrew Goldberg , OEB, Evolution of burrowing in <i>Peromyscus</i> (Hopi Hoekstra) |
| Wednesday, 8/13 Room 310 Introducer: Serene Chen | Jue Wang , Chemical and Physical Biology, Phenotyping unculturable in soil bacteria (Roy Kishony) | Yongtian (Tina) Tan , MCB/Economics, Systemic delivery of liposome-complexed siRNAs into CD44+ cell types: first steps in killing cancer stem cells (Judy Lieberman) | | Richard Kwant , Chemical and Physical Biology, Determining the role of entropy in the binding of aromatic sulfonamides to carbonic anhydrase (George Whitesides) | | Meng Xiao He , MCB, Bacteria that talk to computers: controlling current production in <i>Shewanella oneidensis</i> (Alain Viel) |

Monday, August 18, 2008

| Date/Location in Science Ctr | 3:30pm-3:48pm | 3:50pm-4:08pm | 4:10pm-4:28pm | 4:30pm-4:48pm | 4:50pm-5:08pm | 5:10pm-5:30pm |
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| Monday, 8/18 Room 221 Introducer: Scott Kominers | Jennifer Esch, MCB, Morphological characterization of inputs from the eye to the brain to the mouse (Joshua Sanes) | Helen Yang, MCB, Post-translational modification of transcriptional regulator MeCP2 (Michael Greenberg) | Alison Ravenscraft, OEB, The acoustic niche hypothesis: sound spectrum partitioning in temperate and tropical communities (Brian Farrell) | Carol Suh, MCB, Regulation of stem cell fate by the ubiquitin-proteasome system (David Scadden) | Yohsuke Miyamoto, Physics, Neural Circuits in Mice Motor Learning | Anne McCabe, MCB, Examining the structure of the NRAMP protein family via x-ray crystallography (Rachelle Gaudet) |
| Monday, 8/18 Room 222 Introducer: Christine Tartaglia | Sam Perez, Organismic and Evolutionary Biology, Testing Buller's convective hypothesis through fluid dynamic modeling in Basidiomycetes (Anne Pringle) | Daniel Lage, Undeclared, The proteolysis paradigm: Single stringent starvation protein (SspB) and the search for drug targets in M. tuberculosis (Eric Rubin) | Bing Han, Chemical and Physical Biology, The Effect of mutant K-ras Oncogene on Hypoxia-Inducible Factor 1 α (Daniel Chung) | Meera Atreya, Chemical and Physical Biology, HIV preventive therapy: engineering recombinase enzymes to recreate the CCR5 Δ 32 mutation conferring resistance to HIV Infection (David R. Liu) | Joseph Mandelbaum, Chemical and Physical Biology, Signaling pathways in cancer cells and the EGF receptor (Jeff Settleman) | Abigail Harpstead, Biochemical Sciences, Selective inhibition of gamma-secretase as a drug for Alzheimer's disease (Corinne Augelli-Szafran) |
| Monday, 8/18 Room 309 Introducer: Stephanie Lo | Elizabeth Ryznar, CPB, Discovery of New Antibiotics in Photorhabdus Luminescens (Jon Clardy) | Yi Cai, MCB, G1PC1 silencing in colorectal cancer cells (John Quackenbush) | Margarita Krivitski, CPB, Downregulation of microRNA processing components by HSV-1 (Donald Coen) | Daniel Jones, OEB, What is in that dirty water? An analysis of select Charles River biota (Robert Woollacott) | Nike Sun, Math, Improving Convergence of Metropolis Algorithms on Graphs (Joseph Blitzstein) | Kevin Liu, Neurobiology, Search for downstream genetic program of Ctip2 (Jeffrey Macklis) |
| Monday, 8/18 Room 309A Introducer: Kip Kitur | Michael Ding, MCB, Functional characterization of mammalian homologues of the yeast longevity factor Sir2 (Frederick Alt) | Joshua Green, Chemistry, Development of a Reaction Discovery Methodology Employing Mass Spectrometry (Tobias Ritter) | Chelsea Zhang, Applied Math/Computer Science, A lens into CitySense: Visualizing an urban-scale wireless network (Matt Welsh) | Malorie Snider, Biological Anthropology, Study of the genetic determinants of behavioral inhibition (Jordan Smoller) | Young-ji (Helen) Cho, Neurobiology, Organization of odor information during different brain states in the rodent olfactory system (Venkatesh N. Murthy) | Vladimir Glinskii, MCB, GIPC1 a potential therapeutic target for the treatment of cancer (John Quackenbush) |
| Monday, 8/18 Room 310 Introducer: Raj Manrai | Lauren Chin, Biomedical Engineering, Engineered cardiac muscle with embedded neural networks (Kevin 'Kit' Parker) | William Jones, OEB, Resource partitioning in Charles River Bluegill, Pumpkinseed, and Perch: A dietary analysis (James McCarthy and Robert Woollacott) | Pierre-Emile Duhamel, Computer Science & Chemistry and Physics, Simulation environment and locomotion algorithms for soft robotics (Robert Wood) | Nwamaka Uzoh, Biomedical Engineering, The effect of statins (lipid lowering medications) in pediatric populations: patterns and associated adverse events (Michael W. Shannon) | Frank Chen, MCB, A chemical suppressor screen of melanoma progenitors in the zebrafish (Leonard Zon) | Sophie Rengarajan, Neurobiology, Characterizing the neuronal basis of habituation to electric shocks in zebrafish (<i>Danio rerio</i>) larvae (Florian Engert) |

Tuesday, August 19, 2008

| Date/Location in Science Ctr | 3:00pm-3:18pm | 3:20pm-3:38pm | 3:40pm-3:58pm | 4:00pm-4:18pm | 4:20pm-4:38pm | 4:40pm-5:00pm |
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| Tuesday, 8/19 Room 221 Introducer: Scott Kominers | Jennifer Whitelock , Biology, You put WHAT on a treadmill!?!? (Andrew Bienwener) | Raquel Rodriguez , HEB, Chicken legs: exploring the effect of strain on bone growth and microstructure (Andrew Biewener) | Francesca Reindel , Neurobiology, Investigating the role of 5-HT1B serotonin receptors on aggression in <i>Drosophila</i> (Edward Kravitz) | Dianne Xiao , Chemistry, Microaerobic conditions and virulence expression in <i>Vibrio cholerae</i> (Deb Hung) | Janet Li , MCB, Collaboration between mutation and epimutation in medulloblastoma (Laurie Jackson-Grusby) | Amanda Haixi Li , Chemistry, Investigating the stabilization of Emp1- β -Turns (Gregory Verdine) |
| Tuesday, 8/19 Room 222 Introducer: Christina Tartaglia | Veronica Shi , Human Evolutionary Biology or Neurobiology (Mind, Brain, Behavior), Using mesenchymal stromal cells as a therapy for glioblastoma (Rona Carroll) | Lev Shaket , Molecular and Cellular Biology, In vivo selection of Adeno-associated Virus (AAV) vectors for brain tropism (Miguel Sena-Estevés) | Francisco Alvarez , Chemistry, Explorations in a novel pseudotype for Ebola virus (James Cunningham) | Chinh Vo , Chemistry & Physics, Silicon nanoparticles for hyperpolarized magnetic resonance imaging (Charles Marcus) | Alissa D'Gama , Molecular and Cellular Biology, SAD Kinases and neuronal polarity (Josh Sanes) | Joe Zimmerman , Computer science, Toward effective certified software (Greg Morrisett) |
| Tuesday, 8/19 Room 309 Introducer: Stephanie Lo | Charles Liu , MCB, Periplasmic transit of lipopolysaccharide during bacterial outer membrane biogenesis (Daniel Kahne) | Jennifer Lim , Biology, Using stem cells to model spinal muscular atrophy (Lee Rubin) | Phelps Kelley , MCB, Modulation of the adaptive immune response to prototype HIV vaccines with toll-like receptor ligands (Dan Barouch) | Sonya Mollinger , Physics, Shocking samples of icy sand (Sarah Stewart-Mukohapadhyay) | Sam Lichtenstein , Math, Vortex Algebra and D Modules (John Duncan) | Helal Syed , Stem Cell and Regenerative Biology, Investigating ABCB5 expression in neurofibromatosis 1 (Natasha Frank) |
| Tuesday, 8/19 Room 309A Introducer: Serene Chen | Weike Wang , Molecular evolution of host-phase specificity in continuous culture (Irene Chen) | Will Namwoo Cho , Biology, Promiscuous Olig2: Finding partner proteins in brain cancer stem cell regulation (Charles D. Stiles) | Sara Trowbridge , Neurobiology, Retinal development in the zfish (John Dowling) | Israel Figueroa , OEB, Exploring the mechanism of anaerobic electron transfer in microbial fuel cells by bacteria of the genus <i>Shewanella</i> (Peter Girguis) | Michael Ayoub , Chemical and Physical Biology, Chromosomal recombination during meiosis in yeast (Nancy Kleckner) | Abby Schiff , MCB, Encouraging beta cell proliferation (Doug Melton) |
| Tuesday, 8/19 Room 310 Introducer: Kip Kitur | Christina Grassi , History of Science, Knee prostheses component degradation and regional lymph uptake (Barbara Weissman) | Eddy Palacios , MCB, Cancer melanomas: in search of the cast through cloning, mice, and various assays (Lynda Chin) | Johnny Hu , CPB, Structural and biochemical analysis of a DNA helicase protein, the <i>Bacillus cereus</i> minichromosome maintenance complex (David Jeruzalmi) | Ruwan Gunaratne , Chemistry and Physics, Stretching single DNA molecules: A physical probe into the biological mechanism of RecA (Mara Prentiss) | Pedro Teixeira , Biochemistry, Significance of the Association Between Epstein-Barr Virus's EBNA3A with Human Protein CtBP for B Cell Immortalization (Elliot Kieff) | Leslie Jimenez , OEB, Effects of the renin-angiotensin-aldosterone system on cardiac progenitor cells (Rongliu Liao) |

Wednesday, August 20, 2008

| Date/Location in Science Ctr | 3:30pm-3:48pm | 3:50pm-4:08pm | 4:10pm-4:28pm | 4:30pm-4:48pm | 4:50pm-5:08pm | 5:10pm-5:30pm |
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| <p>Wednesday, 8/20 Room 221 Introducer: Scott Kominers</p> | <p>Aleksandra Stankiewicz, Quantum dots in <i>E. coli</i>: investigating the inner space of bacteria. Chemistry and Physics, (Suckjoon Jun)</p> | <p>Kira Mengistu, Neurobiology, VEGF, forkhead proteins and their role in angiogenesis (Ruhul Abid)</p> | <p>Sophie Cai, CPB, A novel technique for regenerating rod photoreceptors: use of an electrospun poly(ϵ-caprolactone) scaffold to deliver predifferentiated retinal progenitor cells to the subretinal space (Michael Young)</p> | <p>Sarah Bayefsky, HEB, Who's the fairest of them all? Fairness in 3-9 year old children and cotton-top tamarin monkeys (Marc Hauser)</p> | <p>John Lesieutre, Math, Almost periodic Dirichlet series (Oliver Knill)</p> | <p>Arhana Chattopadhyay, CPB, Identifying correlations between Shmoo direction and Agglutinin localization in <i>Saccharomyces cerevisiae</i> using fluorescence microscopy (Adam Cohen)</p> |
| <p>Wednesday, 8/20 Room 222 Introducer: Christine Tartaglia</p> | <p>Hilary Hanbing Wang, Neurobiology, The role of DNA- repair proteins in tandem repeat recombination (Kevin Verstrepen)</p> | <p>Michael Qian, Chemistry, Understanding the transcriptional regulation of the melanoma oncogene MITF (Ed Harlow)</p> | <p>Jiajie "George" Lu, MCB or CPB, Animal viruses can enter human cells expressing variants of transferrin receptor (Hyeryun Choe)</p> | <p>Brad Seiler, Computer Science, Photography with all the colors of the rainbow: Building a database of natural hyperspectral images (Todd Zickler)</p> | <p>Peyton Shieh, Chemistry, Progress towards the synthesis of Phorbol (David Evans)</p> | <p>Anna Marie Wagner, Economics and Molecular and Cellular Biology, Creating standardized synthetic genetic parts to create integrated biological systems (Alain Viel)</p> |
| <p>Wednesday, 8/20 Room 309 Introducer: Stephanie Lo</p> | <p>Caterina Yuan, MCB, Regulation of the cell wall hydrolase RipA, in Mycobacterium tuberculosis (Eric Rubin)</p> | <p>Anna Chen, Chemical and Physical Biology, Circadian rhythm and the self assembly of the cyanobacterial carboxysome (Pamela Silver)</p> | <p>Whitney Muhlestein, MCB, Reprogramming Mouse Embryonic Fibroblasts into Pancreatic Progenitors Through the Use of Defined Factors (Doug Melton)</p> | <p>Steven Schowalter, Physics, Measuring the Permeability of Ra through Kapton (John Doyle)</p> | <p>May Zhang, MCB, Evaluating the potential of the NAD pathway in axon protection (Zhigang He)</p> | <p>Kevin Zhang, OEB, Functional Circuitry in the mouse olfactory bulb (Venkatesh Murthy)</p> |
| <p>Wednesday, 8/20 Room 309A Introducer: Raj Manrai</p> | <p>Dayan Li, MCB, The Sonic Hedgehog Relay: Clarifying Cdo and Boc receptor function in Sonic Hedgehog signaling (Andy McMahon)</p> | <p>Aaron Kuan, Physics, DNA adsorption to solid-state nanopore surfaces and Materials (Jene Golovchenko)</p> | <p>Qi Yu, MCB, Metformin and AMP-activated protein kinase in regulation of endothelial nitric oxide synthase (Thomas Michel)</p> | <p>Andrew Wong, Engineering, Liposome drug delivery (Debra Auguste)</p> | <p>Michael A. Peters, Human and Evolutionary Biology, Estimating bite forces in humans, hominins, and other primates (Daniel E. Lieberman)</p> | <p>Shomesh Chaudhuri, Engineering Sciences SB, Generating supercontinuum in tapered optical fibers (Marko Loncar)</p> |
| <p>Wednesday, 8/20 Room 310 Introducer: Serene Chen</p> | <p>Shawn Low, Chemical and Physical Biology, Temperature compensation in the three- protein Cyanobacterial Circadian Clock (Erin O'Shea)</p> | <p>Elissa Jennings, Chemistry and Physics, Exploring the physics of DNA and chromosome behavior (Mara Prentis)</p> | <p>Kelly Brock, Engineering, In silico model of acetate production in <i>S. cerevisiae</i> (Pamela Silver)</p> | <p>John (Siyuan) Liu, Chemical and Physical Biology, RNA- based sensor modules for molecular automata (Kobi Benenson)</p> | <p>Sha Jin, OEB, Wingless Expression and color pattern in heliconius butterflies (Marcus Kronforst and Mark Clements)</p> | <p>Dragos Michnea, Economics, Trading Favors (Markus Mobius)</p> |