

**PRISE 2013 -- FINAL PRESENTATION SCHEDULING MATRIX**

Monday, August 12, 2013

Date/Location in Science Center	2:40pm-2:58pm	3:00pm-3:18pm	3:20pm-3:38pm	3:40pm-3:58pm	4:00pm-4:18pm	4:20pm-4:38pm	4:40pm-4:58pm	5:00pm-5:18pm	5:20pm-5:38pm
<b>Monday, 8/12 Room 109</b> Introducer: <b>Brandon Gerberich</b>	<b>Stephen Albro</b> , MCB, Why does dyein walk like it's drunk (Andres Leschziener)	<b>Alex Morgan</b> , EPS/Env. Engineering, Biogeochemical reconstruction of the Ediacaran-Cambrian transition: Using field geology in Namibia to decipher the disappearance of the Ediacaran biota (David Johnston)	<b>Ronit Malka</b> , Engineering Sciences, Keeping the RoboBee flying: Design of microscale flexure hinges for endurance life (Robert Wood)	<b>David Su</b> , Chemical and Physical Biology, <i>Escherichia coli</i> chromosome organization: <i>In vivo</i> analysis using super-resolution fluorescence microscopy (Xiaowei Zhuang)	<b>Ishan Chatterjee</b> , Engineering, Development of a robust, low-profile tension sensor for webbing (Conor Walsh)	<b>Joshua Fries</b> , OEB, Adaptive radiation and the Vollenhovia of Vanuatu (Naomi Pierce)	<b>Kendra Rosario</b> , Neurobiology, The impact of sleep and spindle activity on memory processing (Erin Wamsley)	<b>Zoey Bergstrom</b> , Astrophysics and Physics, High mass star formation in infrared dark clouds (Qizhou Zhang)	<b>Marcus Comiter</b> , Computer Science and Statistics, Numerical techniques and applications of machine learning through a sparse coding framework (H.T. Kung)
<b>Monday, 8/12 Room 110</b> Introducer: <b>Jennifer Guidera</b>	<b>Gita Battacharya</b> , Applied Math, Mathematically modeling Notch, Delta, Hes1 and Atoh1 expression levels in the mammalian utricle (Zheng-Yi Chen and John Hall)	<b>Jillian Lee</b> , Engineering Sciences (S.B.) Bioengineering, Mechanical properties and drug release kinetics of electrically conductive hydrogels (Sujata Bhatia)	<b>Rainjade Chung</b> , HDRB, Identification of molecular targets of metformin (Chad Cowan)	<b>Carew Giberson-Chen</b> , Chemistry, Determining the structure of LptD to better understand Gram-negative outer membrane biogenesis (Dan Kahne)	<b>Liz Strong</b> , Mechanical Engineering, Designing dynamic materials for controlled microscale mechanical stimulation of live cells (Joanna Aizenberg)	<b>Johnathan Budd</b> , Electrical Engineering, Warrior Web, designing sensors for soft robotic exosuits (Conor Walsh)	<b>Ruby Almanza</b> , Astrophysics and Neurobiology, Building an atmospheric model for KOI 1686.01 (Dimitar Sasselov)	<b>Angela Frankel</b> , HDRB, Characterizing Ltbp3 requirement for second heart field maintenance (Caroline and Geoff Burns)	<b>Michael Sayegh</b> , Physics, Observing the restructuring of the bacterial flagellar rotary motor <i>in vivo</i> , (Howard Berg)
<b>Monday, 8/12 Room 111</b> Introducer: <b>Chris Hernandez</b>	<b>Jasmine Yan</b> , Computer Science, A neurobiologically inspired dynamic computational model (Gabriel Kreiman)	<b>Kathy Lin</b> , Chemical and Physical Biology, Getting to the other side: Measuring diffusion through inverse opals (Joanna Aizenberg)	<b>Xin Wei</b> , Chemical and Physical Biology, Regulation of cardiac exercise phenotypes by miR-222 (Anthony Rosenzweig)	<b>Ian Ochs</b> , Physics, Evolving complexity: Fitness valleys and population size (Michael Desai)	<b>John Sheridan</b> , Mathematics, Schubert calculus (Joe Harris)	<b>Kwan-Keat Ang</b> , HDRB, Towards targeted cellular differentiation as a therapy for acute myeloid leukemia (David Scadden)	<b>Aida Rocci Ruiz</b> , Psychology, How Mona Lisa is helping us understand co-experience (Daniel Gilbert)		<b>Anthony Liu</b> , Mathematics, Statistical methods for detecting damage in structures (Luke Bornn)
<b>Monday, 8/12 Room 112</b> Introducer: <b>Jolie Berg</b>	<b>Emily Burke</b> , Organismic and Evolutionary Biology, Phylogeography of Bdellovibrionidae (Gonzalo Giribet)	<b>Martin Reindl</b> , MCB, SecY-YidC interaction in membrane proteogenesis (Marcia B. Goldberg)	<b>Linda Xu</b> , Neurobiology, Tracing synaptic connectivity in the mouse thalamus (Jeff Lichtman)	<b>Jenifer Brown</b> , Chemistry, Co-crystallization/scFvs/NRAMP (Rachelle Gaudet)	<b>Jenny Shih</b> , Human Developmental and Regenerative Biology, Probing the interaction of hOGG1 repair enzyme with DNA (Gregory Verdine)	<b>David Shin</b> , MCB, Regulating metastasis: An analysis of SIRT3's inhibitory role in the Src/FAK pathway (Marcia Haigis)	<b>Kameron Kooshesh</b> , HDRB, Pioneer transcription factors and their role in binding all chromatin contexts (Richard Sherwood)	<b>Arvind Narayanan</b> , Undeclared, Investigating holding of tail-anchored proteins (Vladimir Deric)	<b>Hannah Rasmussen</b> , HDRB, Oncostatin-M: A novel drug target within the hematopoietic niche for bone marrow transplant therapies (David Scadden)
<b>Monday, 8/12 Room 113</b> Introducer: <b>Matt Condakes</b>	<b>Shakkaura Kemet</b> , HDRB, The role of TIF1 (gamma) in erythroid differentiation (Leonard Zon)		<b>Jonathan Marks</b> , CPB, Study of novel oxidative coupling in lomaiviticin and actinorhodin biosyntheses (Emily Balskus)	<b>Tiana Raphael</b> , Biomedical Engineering, Characterization and optimization of alginate microspheres (Sujata Bhatia)	<b>Zarmeena Dawood</b> , Biomedical Engineering, Investigating mechanosensitivity in breast cancer progression (Donald Ingber)	<b>Elissa Lin</b> , Chemistry, Finding the cure to aging (William Mair)	<b>Kevin Parker</b> , HDRB, Epigenetic regulation of nephron progenitor cells in adult zebra fish (Robert Handin)	<b>Nicole Bassoff</b> , Undeclared, Evaluating therapeutic EGFR-specific nanobody-TRAIL immunoconjugates in a variety of cancer types (Khalid Shah)	

Tuesday, August 13, 2013

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<b>Tuesday, 8/13 Room 109 Introducer: Brandon Gerberich</b>	<b>Daniel Cooney</b> , Mathematics, Tournament dynamics (Martin Nowak)	<b>Tudor Giurgica-Tiron</b> , Physics, Quantum scattering of a Bose-Einstein condensate off a charged nanotube (Lene Hau)	<b>Perry Choi</b> , Neurobiology, Developing peptide macrocycle catalysts for trans-esterification reaction (Eric Jacobsen)	<b>Jessica Izhakoff</b> , OEB, Is food allergy an infectious disease? (Dale Umetsu)	<b>Danny Kramer</b> , CPB, Whole blood and leukocyte separation by aqueous multiphase systems of polymers (George Whitesides)	<b>Aftab Chitalwala</b> , Physics and Math, Homogenous bubble nucleation in Si3N4 pores (Jene Golovchenko)	<b>Derek Robins</b> , Physics and Astrophysics, Ground loops: Detection and elimination (Gerald Gabrielse)	<b>Aaron Markowitz</b> , Physics and Math, Measuring the CMB dipole--for cheap! (John Kovac)	
<b>Tuesday, 8/13 Room 110 Introducer: Jennifer Guidera</b>	<b>Alex Lombardi</b> , Mathematics, The asymptotic behavior of the Fourier coefficients of fast-growing automorphic forms (Wilfried Schmid)	<b>Qaren Quartey</b> , Molecular and Cellular Biology, Preparation and purification of Mullerian Inhibiting Substance for treatment of ovarian cancer (Patricia K. Donahoe)	<b>Alice Berenson</b> , Molecular and Cellular Biology, Component dynamics and interactions in the Type VII secretion system of <i>Bacillus subtilis</i> (Briana Burton)	<b>Marc Shih</b> , Neurobiology, Making waves: Using EEG to detect early predictors of autism spectrum disorders (Charles Nelson)	<b>Nina Shevzov-Zebrun</b> , HEB, The role of miRNA in activity-mediated plasticity in the <i>Drosophila</i> neuromuscular junction (David Van Vactor)	<b>Michelle Wang</b> , Neurobiology, Longterm effects of social defeat in hyperaggressive <i>Drosophila melanogaster</i> (Edward Kravitz)	<b>Sophie Roh</b> , Neurobiology: Enhancement of poststroke recovery through promotion of plasticity in Lynx1-knockout mice, (Takao Hensch and Larry Benowitz)	<b>Brooke McLain</b> , MCB, Observing lipid droplets in acad-10 C. elegans mutant in conjunction with metabolites (Alexander Soukas and Lienfeng Wu)	
<b>Tuesday, 8/13 Room 111 Introducer: Chris Hernandez</b>	<b>Marissa Suchyta</b> , HDRB, Identification of initiating factors of axolotl limb regeneration (Doug Melton)	<b>Preston Hedrick</b> , HDRB, Harnessing the power of co-inhibitory molecules: Protecting stem cell-derived non-autologous transplants from immune rejection (Chad Cowan and Jack Strominger)	<b>Nina Sokolovic</b> , Neurobiology, Socioeconomic status, executive function, and the developing brain (Margaret Sheridan)	<b>Tom Silver</b> , Mathematics and Computer Science, A blind date with big data (Pardis Sabeti)	<b>Andrew O'Rourke</b> , Biomedical Engineering, Investigating invariant object recognition (David Cox)	<b>Austin Lee, Undeclared</b> , Optimizing a robust screen to assess activation of BDNF-TrkB signaling pathways (Lee Rubin)	<b>Octavio Viramontes</b> , Neurobiology, Characterizing sensitization and pre-sensitization of TRPV1 (Clifford Woolf)	<b>Nick Moore</b> , MCB, Scanning bacterial genomes by systematic codon substitution (Roy Kishony)	
<b>Tuesday, 8/13 Room 112 Introducer: Jolie Berg</b>	<b>Bianca Mulaney</b> , Economics, Controlling antibiotic resistance in <i>Staphylococcus aureus</i> (Roberto Kolter)	<b>Aaron Cheng</b> , CPB, Understanding the role of BCL11A in the hemoglobin switch (Stu Orkin)	<b>Connie Zhong</b> , Neurobiology, Characterizing the role of cholinergic and GABAergic neurons in <i>C. elegans</i> gait control (Yun Zhang)	<b>Valentina Lyau</b> , Engineering Sciences, 3D printing of functional materials (Jennifer Lewis)	<b>Meena Boppana</b> , Mathematics, A Voronoi game (Michael Mitzenmacher)	<b>Kevin Bu</b> , Chemical and Physical Biology, Choline metabolism in gut microbes (Emily Balskus)	<b>Bridget Gosis</b> , Stem Cell and Regenerative Biology, Utilizing stem cell-based genome editing to investigate the effect of a common PPAR $\gamma$ 2 polymorphism on human adipogenesis and mature fat function (Chad Cowan)	<b>Michael Wu</b> , MCB, Cancer, collagen, and CAFs (Shannon Turley)	
<b>Tuesday, 8/13 Room 113 Introducer: Matt Condakes</b>	<b>Ryan Chow</b> , HDRB, Submucosal glands in airway repair and maintenance (Jayaraj Rajagopal)	<b>Sora Tannenbaum</b> , MCB, Epigenetic regulation in the brain and social dominance (Catherine Dulac)	<b>Casey Fleeter</b> , Physics, Powering Penninff-Loffe traps for antihydrogen atoms (Gerald Gabrielse)	<b>Michael Hoffer-Hawlik</b> , Biomedical Engineering, Single-cell nucleosome mapping using droplet-based microfluidics (David Weitz)	<b>David Zhang</b> , Applied Mathematics, NAD+ precursor as therapeutic for tumorigenesis (David Sinclair)	<b>Nicholas Longenbaugh</b> , Linguistics & Computer Science, Modeling complexity in language (Stuart Shieber)	<b>Stephanie Threatt</b> , Chemistry, Utilization of FDG for fluorine-18 radiolabeling of macromolecules (Jacob Hooker)	<b>Jackson Steinkamp</b> , Computer Science, Using 3D Vision to assist surgical robotics (Robert Howe)	

Wednesday, August 14, 2013

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<b>Wednesday, 8/14</b> <b>Room 109</b> <b>Introducer:</b> <b>Brandon Gerberich</b>	<b>Dylan Neel</b> , Neurobiology, Evaluation of small molecule modulators of the max network (Angela Koehler)	<b>Jennifer Tu</b> , Neurobiology, Modeling the astrogliosis of Alzheimer's disease with human stem cells (Tracy Young-Pearse)	<b>James Bothwick</b> , Chemistry & Physics, Polymerization of ADP bound RecA on DSDNA (Mara Prentiss)		<b>Vivian Hua</b> , Neurobiology, Observation and quantification of the maternal behavior of mice in a semi-natural enclosure (Catherine Dulac)	<b>Jack Huang</b> , Undeclared, Good bugs gone bad: Exploring the diversity of the pathogenicity island in <i>Enterococcus faecalis</i> (Michael Gilmore)	<b>Lukas Gemar</b> , Bioengineering, Engineering arch: building a better voltage-sensitive protein (Adam E. Cohen)	<b>Will Clerx</b> , Molecular and Cellular Biology, Erratic light exposure and entrainment of circadian cellular oscillators: Effects on neuroendocrine rhythms in college undergraduates, (Charles Czeisler)	
<b>Wednesday, 8/14</b> <b>Room 110</b> <b>Introducer:</b> <b>Jennifer Guidera</b>	<b>Brian Zhang</b> , Physics, Pseudomagnetic fields in graphene via thermal strain engineering (Amir Yacoby)	<b>Fayola Fears</b> , OEB, Prkar1a and sperm morphology in <i>Peromyscus</i> (Hopi Hoekstra)	<b>May Yang</b> , Chemical and Physical Biology, Parasites of parasites: Studying satellite dsRNAs in <i>Trichomonas vaginalis</i> (Max Nibert)	<b>Olivier Simon</b> , Physics, Toward a more precise measurement of the electron's magnetic dipole moment, or The fabulous story of Steve the Trapped Electron (Gerald Gabrielse)	<b>Vera Say</b> , Neurobiology, Neural correlates of visual long term memory (George A. Alvarez)	<b>Mark Arildsen</b> , Undeclared, The effect of addition of charge on the electrorheological behavior of silica particles in oil (David A. Weitz)	<b>Nivanthika Wimalasena</b> , GW8510: A potential therapeutic for Parkinson's? (Stuart Schreiber and Rakesh Karmacharya)	<b>Chloe Li</b> , Neurobiology, Investigating the misregulation of genes in the visual cortex of Mecp2 knockout mice (Michele Fagioli)	
<b>Wednesday, 8/14</b> <b>Room 111</b> <b>Introducer:</b> <b>Chris Hernandez</b>	<b>Ryan Lindeborg</b> , Human Developmental and Regenerative Biology, Identifying molecular controls over the development of corticostriatal projection neurons (Jeffrey Macklis)	<b>Alexandra Haber</b> , Neurobiology/MBB, The neural correlates of 'Set' expertise (George Alvarez)	<b>Katherine Selwa</b> , MCB, Regulation of retrotransposition in extra cellular vesicles in medulloblastoma (Scott Pomeroy)	<b>Riley Kessler</b> , Neurobiology, Cell surface receptors of the vagus nerve (Stephen Liberles)	<b>Kewei Li</b> , Computer Science and Physics, Changes in stellar color due to atmospheric water vapor (Christopher Stubbs)	<b>Wendy Coronado</b> , Neurobiology, Diffusion tensor imaging of the stria terminalis (Martha Shenton)	<b>Zijian Wu</b> , Molecular and Cellular Biology, miR29b and MCL-1 (Joan Brugge)	<b>Cyndia Yu</b> , Physics, Development and characterization of BICEP3 and Keck Array vacuum windows (John Kovac)	
<b>Wednesday, 8/14</b> <b>Room 112</b> <b>Introducer:</b> <b>Jolie Berg</b>	<b>Raja Ghawi</b> , Engineering Sciences (S.B.), Use of collagen mimetic peptides to modify decellularized rat lungs (Harald Ott)	<b>Sidd Viswanathan</b> , Statistics, Utilizing machine learning techniques for patient survival analysis and prediction (John Quackenbush)	<b>Tejinder Gill</b> , HDRB, Examine the effect of HOX overexpression on hematopoietic stem cells and progenitors during development (Leonard Zon)	<b>Advik Shree Kumar</b> , Undeclared, The double-edged sword: Antimicrobial properties of the Alzheimer's amyloid beta peptide (Rudolph Tanzi)	<b>Jordan Canedy</b> , Applied Mathematics, A novel screen for targeting drug resistance in <i>Plasmodium falciparum</i> (Dyann Wirth)	<b>Charles Du</b> , Chemistry, Identifying putative families of rare driver mutations using mutation hotspots in consensus alignments (Matthew Meyerson)	<b>Gaby Ruiz-Colon</b> , HDRB, Localization of CITED4 in neonatal cardiomyocytes (Anthony Ronsenzweig)	<b>Katherine Clements</b> , Neurobiology, Spatial memory development in infants (Charles A. Nelson)	
<b>Wednesday, 8/14</b> <b>Room 113</b> <b>Introducer:</b> <b>Matt Condakes</b>	<b>Taewhan Shin</b> , Neurobiology, Evaluation of candidate ligands on amyloid precursor protein processing in human induced pluripotent stem cells (Dennis Selkoe)	<b>Michelle Cone</b> , Physics, Designing a user-interactive animation of star positions to teach celestial navigation principles (John Huth)	<b>Ian Dunn</b> , Chemistry and Physics, A quantum chemical approach to the thermodynamics of metabolism (Alan Aspuru-Guzik)	<b>Emma Dowd</b> , Chemistry and Physics, Voltage imaging in zebrafish (Adam Cohen)	<b>Viet Tran</b> , Neurobiology, Determining the neurotoxicity of long amyloid betas in Alzheimer's disease (Michael Wolfe)	<b>Ved Topkar</b> , CPB, Computational analysis of ENCODE datasets to reduce promoter encoding complexity (Jeremy Gunawardena)	<b>Daniel Henderson</b> , HDRB, Identification of genotypic variants for the early diagnosis of amyotrophic lateral sclerosis (Kevin Eggan)	<b>Zoe Hitzig</b> , Mathematics and Philosophy, Memoryless language learning on graphs and complex networks (Martin Nowak)	