

PRISE 2014 -- FINAL PRESENTATION SCHEDULING MATRIX

Monday, August 11, 2014

Date/Location in Science Center	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
Monday, 8/14 Room 109 Introducer: Ian Dunn	Henry Lin , Physics, New tricks for old white dwarfs, (Abraham Loeb)	Evan Zheng , Neurobiology, Investigating high-level vision using a rodent model (David Cox)	Kelly Zhang , HDRB, A recipe for the nervous system: isolating stem cell-derived motor neurons (Lee Rubin)	Fatima Mirza , CPB, Engineering a model protocell that allows of nonenzymatic primer extension without dilution impairment (Jack Szostak)	Amy Lorber , Chemistry, Electronic effects in anion abstraction catalysis (Eric Jacobsen)	Angela Oh , Neurobiology, Sleep-dependent reactivation on memory consolidation (Robert Stickgold)	Andra Ionescu , Physics, Aligning the magnetic field inside a Penning trap (Gerald Gabrielse)	
Monday, 8/11 Room 110 Introducer: Saheela Ibrahim	Jennifer Walsh , Physics, Intrinsic firing patterns of somatosensory neurons (Adam Cohen)	William Tobias , Physics, Electro-optic phase modulation for magneto-optical trapping with lithium niobate (Kang-Kuen Ni)	Camille Traslavina , Molecular and Cellular Biology, Studying phosphoablative mutants to understand the role of post-translational modification in mycobacteria (Eric Rubin)	Gray Putnam , Physics, Adiabatic quantum computing (Salvatore Mandra and Gian Guerreschi)	Apurva Chitnis , Computer and Information Engineering, Predicting the development of autism using novel machine learning methods (Leslie Valiant)	Whan Lee , Neurobiology, From the guys who brought you brainbow: connectomic analysis of neighboring astrocytes (Jeffrey Lichtman)	Young Kwon , Organismic and Evolutionary Biology, Evolution of paternal care in peromyscus (Hopi Hoekstra)	
Monday, 8/11 Room 111 Introducer: Elissa Lin	Riley Brian , Human Developmental and Regenerative Biology, Investigating the role of Leflunomide on transcription elongation in zebrafish (Len Zon)	Edward McKlveen , Chemistry, Mononuclear complexes for redox flow batteries (Theodore Betley)	Mai Chu , Neurobiology, Neural correlates of imitation in children with autism and their unaffected siblings (Charles A. Nelson)	Jake Tobin , Medical and Veterinary Sciences, Characterising the chemotherapeutic sensitivity of T-cell acute lymphoblastic leukaemia cell lines (Cyril Benes)	Adam Atanas , Math, Active galactic nuclei: When black holes get hungry (Belinda Wilkes)	Emmy Hu , Chemistry and Physics/Biomedical Engineering, Characterizing aggregate formation for single cell encapsulation (David Mooney)	Charles Du , Chemistry, Identifying oncogenic somatic mutation hotspots across protein family alignments (Matthew Meyerson)	
Monday, 8/11 Room 112 Introducer: Charles Du	Rob Cooper , Chemistry, Synthesis of a novel phosphatidylcholine hydrogelator (Tobias Ritter)	James Gunn , Physics, Towards ultracold NaCs molecules: Time limitations on wavepacket transfer via stimulated Raman adiabatic passage (Eric Heller)	Phoebe Pearce , Physics, Reduced graphene oxide thin films (Chad Vecitis)	Kaitaveet Chowdhary , Chemical and Physical Biology, Modeling cortical development using human embryonic stem cells (Kevin Egan)	Samuel Kim , Physics, Shooting lasers at diamond for quantum computing (Marko Loncar)	Cindy Zhao , Statistics, Examining demographic factors in the emergence of drug resistance in <i>Plasmodium falciparum</i> (Dyann Wirth)	Kevin Yang , Math, Local fields: topological methods in algebraic number theory (Benedict Gross)	
Monday, 8/11 Room 113 Introducer: Radhika Rastogi	Emily Savage , Biomedical Engineering, Automated sizing for soft robotic glove actuators (Conor Walsh)	Daniel Yue , Physics, Characterization of non-linearities in diamond nanoelectromechanical resonators (Marko Loncar)	Alex Weickhardt , Organismic and Evolutionary Biology, Maneuvering in cichlids (George V. Lauder)	Jaimal Ichharam , Physics/Math, Scheduling algorithm for Large Synoptic Survey Telescope (Christopher Stubbs)	Leslie Ojeaburu , Human Developmental and Regenerative Biology, Tapping into blood's full potential: a look at the interaction of Runx1, Creb, and Pge2 in Zebrafish hematopoiesis (Leonard Zon)	Jackie Leong , MCB, Novel object recognition as a visual assessment in rats, (David Cox)	Sidharth Chand , Chemistry and Physics, A novel synthetic route to Tetraarylbenzoquinones and their applications (Roy Gordon)	

Tuesday, August 12, 2014

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Tuesday, 8/12 Room 109 Introducer: Ian Dunn	Nicholas Larus-Stone , Computer Science, Design and synthesis of a robust information system in <i>E. coli</i> biofilms (Neel Joshi)	Kavya Pathak , Undecided, Role of PV cells in respiratory function in Rett syndrome (Michela Fagiolini)	Christopher Magnani , Chemistry and Astrophysics, Life's first step: Investigating the feasibility of primordial chemistry (Dimitar Sassellov)	Nisreen Shiban , Human Developmental and Regenerative Biology, The advantage(s) of sex: The rate of adaptation of sexually reproducing populations of yeast (Michael Desai)	Nhi Ho , HDRB, Reproducing the mammalian model for heart regeneration (Rich T. Lee)	Jennifer Yao , Psychology, The neuroscience of spatial memory (Charles Nelson)	Manik Kuchroo , Neurobiology, Subtyping alpha cells in the eye: a pipeline for genomic subcategorizations (Aviv Regev)	Harrison Besser , Chemistry, Diiodoindium(III) cation: Yneophile (E. J. Corey)
Tuesday, 8/12 Room 110 Introducer: Saheela Ibrahim	Joyce Zhou , Neurobiology, A Search for novel regulators of neurotransmitter release in <i>C. elegans</i> (Joshua Kaplan)	Albert Li , CPB, A vaccine strategy permitting B cells to drive a CD8 T cell response (Ulrich von Andrian)	Mateusz Kulesza , Electrical Engineering, the real ironman; control system for a soft, wearable, hip-actuating exosuit (Conor Walsh)	Hannah Zurier , CPB, A fungus among us: the hidden truffles of the Arnold Arboretum (Donald Pfister)	Shaan Erickson , Mechanical Engineering, Creation of a multi-purpose uniaxial driven carriage (Joshua Gafford)	Jack Zhou , Biomedical Engineering, Variable stiffness catheter (Robert Howe)	Francesca Del Frate , MCB, Improving accuracy of nonenzymatic rna replication (Jack Szostak)	Florence Chen , Earth and Planetary Sciences, Clumped isotope reconstruction of temperature and hydrological conditions at Mono Lake, California over the Holocene and last deglaciation (Daniel Schrag)
Tuesday, 8/12 Room 111 Introducer: Elissa Lin	William Bloxham , Chemistry, Low-cost highly precise density standards and applications to low cost diagnostics (George Whitesides)	Bernadette Wharton , Neurobiology, Using functional connectivity to understand memory system communication during off-line learning (Edwin Robertson)	Gloria Hong , Chemistry, Identifying novel catalysts of antitumoral scaffold in lomaiviticin biosynthesis (Emily Balskus)	David Liu , Math, Real-time spike sorting in large data sets (Ryan Adams)	Derek He , Neurobiology, Control of adenovirus replication in carrier stem cells improves glioblastoma multiforme tumor therapy (Khalid Shah)	Michelle Guo , Neurobiology, Identification and characterization of transient synapses across two brain hemispheres (Jeffrey Macklis)	Jiyun Chang , Human Developmental and Regenerative Biology, Lipid metabolism in endodermally derived organs (Wolfram Goessling)	Madeline Cooper , BME, Effects of matrix mechanics on constitutive exocytosis (David Mooney)
Tuesday, 8/12 Room 112 Introducer: Charles Du	Raynor Kuang , Chemistry, Quantitative analysis of positive selection in microbial species (Eugene Shakhnovich)	Stephen Mackereth , Mathematics and Philosophy, Reverse mathematics (Warren Goldfarb)	Arakua Welbeck , Biomedical Engineering, The role of cell compaction in radiation therapy for breast cancer (Donald Ingber)	Serena Blacklow , Biomedical Engineering, Synthesis of cryogels for cancer immunotherapy (David Mooney)	Lorena Benitez , OEB, Climbing the evolutionary tree: an investigation of morphological and behavioral adaptations to aboreality in forest deer mice (Hopi Hoekstra)	Ioana Dobre , Biomedical Engineering, HIV-1 Subtype C Genotyping in Treatment-as-Prevention Studies (Max Essex)	Aun Zaidi , Applied Physics, Light matter interaction between tapered fiber and optical cavities (Evelyn Hu)	Roxanna Haghghat , Neurobiology, Longitudinal analysis of neurocognitive function in men with and without HIV infection and heavy cocaine use (Dana Gabuzda)
Tuesday, 8/12 Room 113 Introducer: Radhika Rastogi	Alexander Heyde , OEB, Geometric morphometry of adaptive cranial diversity in phyllostomid bats (Arkhat Abzhanov)	Heather desJardins-Park , Chemistry, An iron-based catalyst for enantioselective C-H functionalization (Theodore Betley)	Elizabeth Zawadzka , Neurobiology, An insight into vision loss: analyzing the bi-phasic reaction of astrocyte bone morphogenetic proteins in an optic nerve crush model of glaucoma (Tatjana Jakobs)	Alex Miller , Biomedical Engineering, Thrombomodulin refillable vascular grafts (David Mooney)	Vimal Konduri , Chemistry, Screening of compounds to enhance neuroprotection and neurite growth in retinal ganglion cells (Dong Feng Chen)	Elirayna Gelyana , Neurobiology, Isolation and identification of human amyloid-beta assemblies (Dennis Selkoe)	Frances Ding , HDRB, Cbln1 is a novel molecular control over corticospinal motor neuron segmental specificity (Jeffrey Macklis)	Kristen Witt , Molecular and Cellular Biology, Reconstitution of HIV envelope glycoprotein into nanodiscs (Joseph Sodroski)

Wednesday, August 13, 2014

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Wednesday, 8/13 Room 109 Introducer: Ian Dunn	Juliet Musabeyezu , HDRB, Engineering Mesenchymal Stem Cells as Targeting Agents for Cancer Cell Therapeutics (Jeffrey M. Karp)	Weiming Zhao , Physics and Math, Semi-supervised and unsupervised classification of defects in amorphous solids (Efthimos Kaxiras)	Jen Guidera , Chemistry, Modeling the transition state of an asymmetric [2,3]-Wittig rearrangement, (Eric Jacobsen)	Breanna Johnson , Human Developmental and Regenerative Biology, Developing an in vitro system for the differentiation of regulatory T cells, (Jack Strominger)	Ruth Kagan , Molecular and Cellular Biology, Analyzing intersectional gene expression to characterize a putative subtype of retinal ganglion cell, (Joshua Sanes)	Trevor Lutzow , Chemistry, Predicting reactivity for the Harvard Clean Energy Project (Alán Aspuru-Guzik)	Luis Usier , CPB, Oxidative stress and aging in bdelloid rotifers (Matthew Meselson)	
Wednesday, 8/13 Room 110 Introducer: Saheela Ibrahim	Daniel Windham , Physics, Representing periodic crystals for accurate machine learning of band gaps (towards better solar cells) (Alán Aspuru-Guzik)	Anthony Thai , Neurobiology, Dynamics of herpes simplex virus US11 in glioblastoma stem cells (Samuel Rabkin)	Claire Harmange , Chemistry and Physics, Asymmetric vicinal diamine synthesis via chiral auxiliary-mediated Mannich reaction (Andrew G. Myers)	Olivia Plana , HDRB, Characterization of the phenotypic expression of long non-coding RNAs in normal development (John Rinn)	Dan Dou , Neurobiology, Study of neural circuits in the olfactory bulb (Venkatesh Murthy)	Melody Guan , Chemistry and Physics, Development of luciferase assay for glucose-stimulated insulin secretion from pancreatic β -cells (Doug Melton)	Shirley Mo , Applied Math, Mathematical modeling of cancer stem cell dynamics (Franziska Michor)	
Wednesday, 8/13 Room 111 Introducer: Elissa Lin	Nora Torres , HDRB, <i>Prkdc</i> null: an immune compromised zebrafish (David Langenau)	Jason Cheng , HDRB, Adeno-associated virus mediated muscle satellite cell transduction (Amy Wagers)	Dominick Zheng , HDRB, Uncovering the roles of peptides in the development of insulin-producing beta cells (Douglas Melton)	John Gee , Mathematics, Binary quadratic forms (Benedict Gross)	Andy Tran , BME, Precise human genome surgery, CRISPR-on-a-Chip (George Church)	Roman Berens , Physics, Improving on the measurement of the electron's dipole moment (Gerald Gabrielse)	Arifeen Rahman , HDRB, Pericytes as a platform for a cell-based continuous glucose monitoring system (Richard Lee)	
Wednesday, 8/13 Room 112 Introducer: Charles Du	Isabelle Yang , Chemistry and Physics, Fluorinating heterocycles (Tobias Ritter)	Andy Shi , Statistics, Principled quality control for sequencing data (Curtis Huttenhower)	Kevin Ma , Chemical and Physical Biology, Modulating behavior with engineered gut microbes (Timothy Lu)	Fanney Zhu , Undecided, Characterizing dorsal horn interneurons in the deeper lamina of the spinal cord (David Ginty)	Michelle Long , Biomedical Engineering, Design and synthesis of a robust information encoding system in <i>E. coli</i> biofilms (Professor Neel Joshi)	Noah Wuerfel , Physics and Math, Charge neutralization of an ion beam by graphene (Jene Golovchenko)	Fola Sofela , Neurobiology, The role of Twist-1 in venous angiogenesis (Elizabeth Engel)	
Wednesday, 8/13 Room 113 Introducer: Radhika Rastogi	Curren Iyer , Electrical Engineering, Exploring the relationship between movement speed and motor learning rates (Maurice Smith)	Emily Rogers , Engineering Sciences, Soft sensing device for active rehabilitation in developmentally delayed infants (Conor Walsh)	Jenna Zhang , Molecular and Cellular Biology, Investigation of the role of aquaporin 4 autoantibodies in Neuromyelitis optica (Vijay Kuchroo)	Ramya Rangan , Computer Science, Analysis of essentiality profiles (RNAi) to identify novel cancer-relevant genes (Dr. Jill Mesirov)	Suman Gunasekaran , Engineering, direct laser sintering of printed microelectrodes (Jennifer Lewis)	Gurbani Kaur , Human Developmental and Regenerative Biology and Chemistry, Elucidating the role of TGF β 2a in heart morphogenesis (Caroline and Geoffrey Burns)	Rishi Goel , Biomedical Engineering, Innovative delivery methods of growth factors for therapeutic angiogenesis (David Mooney)	