

PRISE 2011 -- FINAL PRESENTATION SCHEDULING MATRIX

PRISE Program Assistant Scheduler	PETER FREESE	LAUREN ONOFREY	PETER HADAR	HELEN YANG
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Monday, August 8, 2011

Date/Location in Maxwell Dworkin	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, 8/8 Room 119 Introducer: Peter Freese	Godfrey Ilonzo , MCB, Short term dietary changes can attenuate adipose response to surgical trauma (Keith Ozaki)	Aidan Daly , Computer Science, Machine learning in design of efficient and organic solar cells (Alan Aspuru-Guzik)	Jimmy Huang , Engineering Sciences, Nanocrystallization with colloidal templating (Dave Weitz)	Edward Li , HDRB, Migration of ISH cardiac progenitors into the heart tube during development (Kenneth Chein)	Laszlo Seres , Chemistry and Physics, C-H bond functionalization using iron and manganese complexes with metal-ligand multiply bonded intermediates (Theodore Betley)	Spencer Chan , Computer Science, Building cooperation and trust in multi-agent games (Barbara Grosz)	Natalie Heer , MCB, Regulation of microtubule-based transport, (Samara Reck-Peterson)	Linda Xia , MCB, Morphant kidney marrow transplantation in the adult zebrafish (Leonard Zon)
Monday, 8/8 Room 123 Introducer: Lauren Onofrey	Charles Puza , HDRB, The cell autonomous function of brain-derived neurotrophic factor on Purkinje cells, granule cell precursors, and medium spiny Striatal neurons (Rosalind Segal)	Michael Sun , CPB, Mapping the somatosensory cortex of different modalities in larval zebrafish (Florian Engert)		Isabel Vogt , Chemistry and Mathematics, Non-enzymatic and ribozyme-catalyzed primer extension in the context of an RNA world (Jack Szostak)	Katie Banks , Mathematics, Can you hear the shape of a drum? : Recovering geometry from spectral measurements (Joe Harris)	Nadia Liyanage-Don , Neurobiology/MBB, Abnormalities in neural structures of attention and their relation to impaired social function in schizophrenia (Christine Hooker)	Gina Pan , HDRB, Effect of Hippo/Yap pathway on cardiomyocytes (William Pu)	Amy Wang , Neurobiology, Transdifferentiation of nociceptive neurons from mouse embryonic fibroblasts (Clifford Woolf)
Monday, 8/8 Room 221 Introducer: Peter Hadar	Osbert Bastani , Mathematics, Elliptic curves (Barry Mazur)	Hamsa Sridhar , Physics and Mathematics, Quantum levitation: Leveraging the strangeness of quantum field theory to float objects with no work (Federico Capasso)	Abhishek Chintapalli , Chemistry, Mapping protein mutation effects onto an evolutionary fitness landscape (Eugene Shakhnovich)	Mike Rizzo , CPB, Enantioselective, nucleophilic addition to N,N-Dialkyliminium ions (Eric Jacobsen)	Amalie Thavikulwat , Neurobiology, Guiding behavior with optical stimulation: Decoding the population activity of cortical neurons (John H.R. Maunsell)	Chinwe Madubta , MCB, sap-1 and the nonsense-mediated decay pathway (Susan Mango)	Nick Perkons , Biomedical Engineering, Nano-engineering: DNA containers & cargo (Peng Yin/William Shih)	Nick Stanford , CPB, The role of translational inhibition in the innate immune response of <i>C. elegans</i> (Fred Ausubel)
Monday, 8/8 Room 223 Introducer: Helen Yang	Louise Hindal , Computer Science, Inferring solution methods students use to solve chemistry problems within pedagogical software (Stuart Shieber)		Yixiao Wang , Undeclared, Direct detection of bacteria and α -hemolysin by neurons (Clifford Woolf)	Yun Jee Kang , Undeclared, Ribosome profiling in <i>C. elegans</i> (Gary Ruvkun)	Jung Soo Lee , HDRB, Patient-derived induced pluripotent stem cells as a model of Dunnigan-type familial partial lipodystrophy (Chad Cohen)	Jean Shiao , Engineering Sciences, Building reporter strains in the developmental model organism <i>Streptomyces coelicolor</i> (Roberto Kolter)	Xiaoli Mi , MCB, Modulation of H3K2me3 during embryonic stem cell differentiation and factor-based reprogramming (Alex Meissner)	Eugene Vaio , Neurobiology, A qualitative analysis of Bcl-w and Mef2d localization in distal axons (Rosalind Segal)
Monday, 8/8 Room 319 Introducer: Jamie Romine	Collin Vanostran , Undeclared, Natural variation among the Dicer-Like 1 gene in <i>Arabidopsis arenosa</i> (Kirsten Bomblies)	Kevin Ni , CPB, Structural insights into the motor domains of the asymmetric ABC transporter TAP (Rachelle Gaudet)	Colleen Vaughan , OEB, HSV-1 vectors and inhibition of MPNST tumor growth: A gene therapy approach to NF1 disease (Robert Martuza)	Naimou James , Undeclared, Chromosome compaction in <i>S. elongatus</i> using super-resolution structured illumination microscopy (Erin O'Shea)	Samantha Keyser , Chemistry, Regulation of anti-algal compounds produced by algal-associated bacteria of the Roseobacter clade (Jon Clardy)	William Polachek , OEB, Fitness recovery from synonymous mutations in <i>Methylobacterium extorquens</i> (Christopher Marx)	Yuying Luo , MCB, The epigenetics of DNA damage response (Yang Shi)	Seth Cassel , HDRB, Lineage restriction of nestin-positive neural progenitor cells in amyotrophic lateral sclerosis (Kevin Eggan)

Tuesday, August 9, 2011

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Tuesday, 8/9 Room 119 Introducer: Peter Freese	Gordon Bae , HDRB, Potential therapy for diabetes mellitus: the role of HIF1a in pancreatic beta cell proliferation (Douglas Melton)	Theresa Feng , HDRB, Investigating the expression of small full-length mRNA in β cell development (Douglas Melton)	Michael Lindeborg , HDRB, Characterization of cyclin-dependent kinase inhibitor p57 in hematopoietic stem cells (Derrick Rossi)	Yanting Jiang , Chemistry, Directed evolution of a MYC transcription factor binder (Gregory Verdine)	Jeremy Cushman , Physics, A search for the electric dipole moment of the electron with thorium monoxide (John Doyle)	Andrea Henricks , MCB, Exploring the function of VAMP-4 in NK cell cytotoxicity (Jack Strominger)	Carl Malm , Neurobiology, A morphological analysis of the effect of genetically induced myelin disruption on feedback connections in the mouse visual cortex (Richard T. Born)	Catherine Gu , MCB, The PD-1 pathway on dendritic cells (Arlene Sharpe)
Tuesday, 8/9 Room 123 Introducer: Lauren Onofrey	Nora Abo-Sido , HDRB, Lin28 in aging and the regulation of glucose metabolism (George Daley)	Carol Tran , HDRB, Biomechanical forces in the specification of human endothelial cells (Guillermo Garcia-Cardena)	Natalie Jacewicz , OEB, Growing pains: A study of morphology and behavior in juvenile lizards (Jonathan Losos)	Shelun Tsai , Neurobiology, The role of torsinA in secretion and implications to neurological and peripheral disorders (Xandra Breakefield)	Matt Abrams , HDRB, Understanding markers in CSMN development (Jeffrey Macklis)	Mark Martinez , Physics, Search for the electron EDM (Gerald Gabrielse)	John Capodilupo , Computer Science, An investigation of substructure in pre-stellar cores (Stella Offner)	Andrew Kennard , Applied Mathematics, <i>In vitro</i> systematic mapping of the <i>S. elongatus</i> two-component system regulatory network (Erin O'Shea)
Tuesday, 8/9 Room 221 Introducer: Peter Hadar	Michael Zhang , Economics, Structural characterizations of residues involved in lesion recognition by MutM (Gregory Verdine)	Cassy Wang , MCB, Recombinant proteins for the structural study of <i>Trichomonasvirus</i> (Max Nibert)	Andrea Brettler , HDRB, <i>In vitro</i> culture of mouse embryonic lungs in Matrigel (Jay Rajagopal)	Janet Song , CPB, Characterization of the function of <i>Pre-synaptic Organizing Protein 1 (POP1)</i> in the segmental targeting of corticospinal motor neurons (Jeffrey Macklis)	Ainsley Faux , Biomedical Engineering, Microbial approaches to scarce metal recovery and separation (David Clarke)	Roxana Feier , Mathematics, Network reconstruction of biochemical pathways using discrete dynamical systems (Jeremy Gunawardena)	Richard Ebricht , CPB, Tiny solutions to a huge problem: Using small molecules to identify novel therapeutic targets in cancer (Stuart Schreiber)	Yannis Kalogirou Valtis , HDRB, The role of perivascular cells in the neural stem cell niche (David Scadden)
Tuesday, 8/9 Room 223 Introducer: Helen Yang	Alyssa Klein , Chemistry, High-resolution <i>in vivo</i> imaging of oxygen partial pressure in the hematopoietic stem cell niche (David Scadden)	Veronica Manzo , Neurobiology, A novel molecular therapy to treat cancer cells with homozygous insertions (Ronald DePinho)	Alison Kraemer , HDRB, Directed differentiation of human induced pluripotent stem cells into corticospinal motor neurons (Paola Arlotta)	Terrence McKenna , Mechanical Engineering, Robust robotic grasper via shape deposition manufacturing & photocell sensors (Robert Howe)	Jason Wien , Physics and Mathematics, Hunting for Majorana fermions (Charles Marcus)	Scott Kim , Chemistry, Path to sustainability: Production of fatty acid-based biofuels (Pamela Silver)	William Sun , CPB, Characterizing small-molecule regulators of survival of motor neuron protein (Lee Rubin)	Daniel Bruder , Engineering Sciences, Surgical mitral valve repair using an implantable clip (Rob Howe)
Tuesday, 8/0 Room 319 Introducer: Jamie Romine	Colin Teo , OEB, Sculpting the Flower - Investigating AGAMOUS in <i>Aquilegia</i> (Elena Kramer)	Charlotte Lee , Neurobiology or Chemistry, Finding the transcription factor Mef2's target genes and mechanism in hippocampal neurons (Michael Greenberg)	Joseph Tassarotti , Mathematics, Verified analysis of untrusted code (Greg Morrisett)	Mariama Runcie , MCB, Revealing downstream effectors of the target of rapamycin complex 2 (TORC2) pathway using lifespan analysis and RNAi: An examination of different <i>C. elegans</i> phenotypes (Alexander Soukas)	Jonathan D'Gama , MCB, Mechanism of programmed ribosomal frameshift in HIV-1 (Victoria D'Souza)	Matt Mulroy , Earth and Planetary Sciences, Modeling CO ₂ fluxes in Los Angeles Basin (Steven Wofsy)	Lynn Yi , Physics and Mathematics, Role of 5'UTR in translation regulation (Erin O'Shea)	Rohini Shivamoggi , Chemistry and Physics, Magnetic field effects in chained electron donor-acceptor pairs (Adam Cohen)

Wednesday, August 10, 2011

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Wednesday, 8/10 Room 119 Introducer: Peter Freese		Diana Cuesta , Neurobiology, Potential role of mu-crystallin on hippocampal development and function (Paola Arlotta)	Richard Sima , Neurobiology, A <i>Drosophila</i> social defeat model for depression (Edward Kravitz)	Samuel Meyer , Astrophysics, Hierarchical Bayesian modeling of Type Ia supernova light curves (Robert Kirshner)	Edward Daniel , HDRB, Controlling the blood supply: Role of Egr1 in HSC proliferation and mobilization (Amy Wagers)	Yvette Leung , CPB, Using rodent models to study neurodegeneration and neuroprotection in Parkinson's Disease (Ole Isacson)	Aisha Down , Physics, Baryon acoustic oscillations and the future of the universe (Daniel Eisenstein)
Wednesday, 8/10 Room 123 Introducer: Lauren Onofrey	Jenny Lu , CPB, Cell lineage analysis of a human pancreatic tumor (X. Sunney Xie)	Sophie Arlow , Chemistry and Physics, Carbon-fluorine bond formation for PET tracer synthesis (Tobias Ritter)	Richard Smith , Chemistry, Engineering innervated and vascularized skeletal muscle (Joseph P. Vacanti)	Joy He , HDRB, Patient-specific modeling of mitochondrial dysfunction in Parkinson's disease (Ole Isacson)	Manjinder Kandola , CPB, Evaluation of the role of p16 in senescence of cardiomyocytes (Anthony Rosenzweig)	Caroline Huang , Astronomy and Astrophysics, Host galaxies of high redshift gamma-ray bursts (Edo Berger)	Juhi Kuchroo , HDRB, The role of Tbet in Th17 mediated multiple sclerosis (Laurie Glimcher)
Wednesday, 8/10 Room 221 Introducer: Peter Hadar	Danielle Ithier , Engineering Sciences, Wing orientation in monarch butterflies (Robert Wood)	Richard Alt , Earth and Planetary Science, Mechanical modeling of thrust faults (John Shaw)	Levent Alpogre , Mathematics, L-functions and modular forms (Benedict Gross)	Yoon Mun , MCB, Cancer vaccines: The antibody response (Glenn Dranoff)	Christa Simone , Neurobiology, Hair cell regeneration in lateral line neuromasts of zebrafish (Zheng-Yi Chen)	Bing (Edna) Wang , MCB, Identification of new therapeutics for glioblastoma multiforme (Bakhos Tannous)	Jesus Luevano , MCB, Exploring the interrelationship between sex, diet, and the gut microbiota using male and female outbred mice (Peter Turnbaugh)
Wednesday, 8/10 Room 223 Introducer: Helen Yang	Allyson Freedy , Chemistry, Three blind mice: Investigating critical periods by determining the effect of experience on visual cortex circuitry (Takao Hensch)	Christopher Madl , Engineering Sciences, Local control of mesenchymal stem cell fate using BMP-2 mimicking peptides (David Mooney)	Beverly Pozuelos , Psychology, The attention network test-emotion in individuals at risk for schizophrenia based on high social anhedonia (Christine Hooker)	Tony Feng , Mathematics, Modular curves (Benedict Gross)	Ketsia Saint-Armand , History of Science, Tumor regression mediated by adipose tissue-derived invariant natural killer T Cells (Mark Exley/Steven Balk)	David Yang , CPB, A laboratory approach to exploring the relationship between protein stability and evolvability (David R. Liu)	Anji Tang , Neurobiology, Synaptic connectivity in development (Jeff Lichtman)
Wednesday, 8/10 Room 319 Introducer: Jamie Romine	Ellen Rim , HDRB, Sensors for miRNA and endogenous siRNA activity (Gary Ruvkun)	Alice Li , HDRB, Identifying small molecules that increase efficiency of direct conversion (Lee Rubin)	Lillian Tsai , MCB, Identification of immunogenic <i>S. paratyphi</i> A genes expressed during human infections (Edward Ryan)	Amol Pai , Applied Mathematics, Effects of covariates in networks: Extensions of the Watts-Strogatz and configuration models (Joe Blitzstein)	Yingna Liu , Neurobiology, Behavioral and morphological differences in maternally separated mice predisposed to disease conditions (Takao Hensch)	Gabriella Paisan , Neurobiology, DNA constructs for use in transgenic mice as a means of creating models for autism (Matthew Anderson)	Hillary Singer , Undeclared, Impact of matrix elasticity on Lewis lung carcinoma cell growth and secretion of angiogenic factors (Don Ingber)