

PRISE 2012 -- FINAL PRESENTATION SCHEDULING MATRIX

PRISE Program Assistant Scheduler	RYAN CHRIST	ALICE LI	AFOMA UMEANO	JOSH WORTZEL	ESTHER WU
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Monday, August 6, 2012

Date/Location in Maxwell Dworkin	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
Monday, 8/6 Room 119 Introducer: Ryan Christ	Stephanie Wang , Chemical and Physical Biology, Uncovering a pathway of aging: The role of HSP72 and IL-6 in the regeneration of skeletal muscle in aged mice (Amy Wagers)	Samita Mohanasundaram , Environmental Science and Public Policy, Evaluation of the leukemogenic potential of agricultural pesticide Mancozeb (Amy Wagers)	Elizabeth Wang , Chemical and Physical Biology, Characterization of SID1 homologs (Craig Hunter)	Lewin Xue , Computer Science, Study of effects of stress on mutation of Alpha-Actinin4 (David Weitz)	Matt Yarri , Engineering Sciences, Making smaller, cheaper, and better surgical tools using laser origami (Sam Kesner)	Jolie Berg , Chemistry, Characterizing the Albicidin Biosynthetic Pathway (Emily Balskus)	Lukas Bielskis , Engineering Sciences (SB), Dexterous micromanipulation project: Microsurgical robotic gripper (Robert Wood)	Matthew Condakes , Chemistry, Developing novel reagents: Chiral silicon protecting groups (Andrew Myers)	Saheela Ibraheem , Neurobiology, Signs of old in young: How apolipoprotein affects cortical thickness and functional connectivity in young adults (Randy Buckner)
Monday, 8/6 Room 123 Introducer: Alice Li	Jao-ke Chin-Lee , Applied Math, Modelling termite colonies as distributed systems for use in autonomous construction (Radhika Nagpal)	Leah Weiss , Physics, Understanding photosystem II: a physical perspective (Lene Hau)	Yanick Mulumba , Human Developmental and Regenerative Biology, Non Canonical Hedgehog signalling (Benjamin Humphreys)	Bonnie Wong , Organismic & Evolutionary Biology, Reciprocal cross-talk between natural killer and dendritic cells (Jack Strominger)	Elisabeth Meyer , Chemistry and Physics, Investigating Euler buckling in double-stranded DNA (Adam Cohen)	Namrata Anand , Chemical and Physical Biology, Studying synapses via optical imaging (Adam Cohen)	Max Lu , Undecided, ADS All sky survey (Alyssa Goodman)	Katherine Ebright , Undecided, Effects of Polycomb group proteins on chromatin structure in <i>Drosophila melanogaster</i> (Xiaowei Zhuang)	Martha Farlow , Human Evolutionary Biology, The effects of exogenous and endogenous estrogen on insulin sensitivity (Susan Lipson)
Monday, 8/6 Room 221 Introducer: Afoma Umeano	Yiren Lu , Mathematics, Automatic text classification of Quora questions with hidden topics from Quora answers (Stuart Shieber)	Elaine Tran , Organismic and Evolutionary Biology, Unravelling multiclonal infections of <i>Plasmodium falciparum</i> with single genome amplification (Dyann Wirth)	Robert Powers , Chemical and Physical Biology, Structural study of a positively selected variation in Protocadherin-15 (Rachelle Gaudet)	James Bohoslav , Neurobiology, The central neurobiology of food reward (Florian Engert)	Gaiynel Cordero Taveras , Neurobiology, Candidate based search for APP ligands that modulate APP-dependent neurite outgrowth (Dennis Selkoe)	Tara Jain , Chemical and Physical Biology, Improving the geometry of interaction-dependent PCR (David Liu)	Jennifer Cloutier , Human Developmental & Regenerative Biology, The role of mi302/367 in reprogramming and development (Konrad Hochedlinger)	Rupak Bhuyan , Neurobiology, Disruption of synaptic plasticity in hippocampal CA1 area by soluble amyloid beta (Venkatesh Murthy)	Jane Suh , Human Developmental & Regenerative Biology, Runx1-mediated hematopoietic stem cell transgene expression and Cre-based recombination for lineage tracing of blood development in zebrafish (Leonard Zon)
Monday, 8/6 Room 319 Introducer: Josh Wortzel	Ian Boothby , Molecular and Cellular Biology, Understanding synaptic plasticity by imaging the neuromuscular junction (Jeff Lichtman)	Sayantana Deb , Human Developmental Biology, iPSC-derived neuronal transplantation for Parkinson's disease: <i>in vivo</i> application of a new differentiation protocol (Ole Isacson)	Lili Jiang , Chemistry and Physics, Light thinks and we make it think better: Optimizing anatase-TiO2 deposition for low loss waveguides (Eric Mazur)	Annie Morgan , Chemistry, Redheads and melanoma: a novel mechanism of carcinogenesis (David E. Fisher)	Michael Silva , Molecular and Cellular Biology, Autism-associated Ube3a conditional knockout mouse construct (Matthew Anderson)	Manny I. Fox Morone , Chemistry, Developing a ligand for Silafluorene synthesis (Tobias Ritter)	Peggy Mativo , Chemistry, Nanofiltration with electrochemistry (Chad Vecitis)	Rachel Gladstone , Human Developmental and Regenerative Biology, Regenerating the heart: The molecular mechanism of cardiomyocyte dedifferentiation and proliferation (Rich Lee)	Kelly Robinson , Neuroscience, Meditate to create (Sara Lazar)
Monday, 8/6 Room 323 Introducer: Esther Wu	Alison Liou , Organismic & Evolutionary Biology, Nonenzymatic RNA Replication (Jack Szostak)	David Liu , Engineering Sciences, Controlled drug delivery via peptide cross-linked hydrogels (Neel Joshi)	Joshua Ra , Molecular and Cellular Biology, PD-1 expression after adenovirus vaccination (Dan Barouch)	Margaret Ho , Chemical and Physical Biology, Oh my GAD, this mouse won't stop grooming: OGAD65 KO Mice as an Autism Model (Takao Hensch)	Frankie Maldonado , Neurobiology, Visual tracking with emotional stimuli (Gabriel Kreiman)	Caleb Canas , Molecular and Cellular Biology, The role of deubiquitinating enzymes in cancer (Randall King)	Nicole Golbari , Neurobiology, Sex and aggression: behavioral cues as triggers for aggression in <i>Drosophila melanogaster</i> (Ed Kravitz)	Kyle Green , Neurobiology, The genetic basis of the aging eye (Joshua Sanes)	Olivvia Angiuli , Chemical and Physical Biology, The road toward an HIV vaccine (Bruce Walker)

Tuesday, August 7, 2012

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Tuesday, 8/7 Room 119 Introducer: Ryan Christ	Abdullah Nasser , Neurobiology, Role of Ra1A in spines formation (Thomas Schwarz)	Jen Guidera , Undecided, Is SMN at the synapse? (Lee Rubin)	Greta Solinap , History & Science, Searching for a biomarker of Rett Syndrome (Fagiolini lab)	Giuliana Repetti , Human Developmental and Regenerative Biology, Characterizing a heterogeneous population of neural progenitor cells (Lee Rubin)	Aisha Lee , Chemistry, Understanding malaria parasite invasion pathways: The search for erythrocyte host receptors (Manoj Duraisingh)	Eric Larson , Mathematics, The Maximal Rank Conjecture for sections of curves (Joseph Harris)	Tess Linden , Organismic and Evolutionary Biology, Genetic basis of behavioral traits in the cavefish <i>Asyanax mexicanus</i> (Cliff Tabin)	Keli Liu , Statistics, You can't please everyone... or can you?: Impossibility of scientific objectivity (Xiao-Li Meng)	Emily Groopman , Human Evolutionary Biology, Food and fertility: an energetic model of male reproductive health (Richard Wrangham)
Tuesday, 8/7 Room 123 Introducer: Alice Li	Asante Badu , Neurobiology, Long-term retention of elicited versus perceived emotional scenes in extended audiovisual narratives (Gabriel Kreiman)	Kuo-Kai Chin , Chemical and Physical Biology, An RNA interference-based screen for arginine demethylases (Yang Shi)	Victoria Gu , Applied Math Computer Science, Quality Assessment of RNA-Seq data derived from FFPE samples with rRNA depletion (John Quakenbush)	Diego Lopez , Molecular and Cellular Biology, Inhibition of T-Cell migration to the intestine as a possible treatment for crohn's disease, (Ulrich von Andrian)	George Plummer , Neurobiology, Axonal morphologies of retinal ganglion cells, and more (Florian Engert)	David Kersen , Chemistry and Physics, Reptation in <i>Caenorhabditis elegans</i> (Aravinthan Samuel)	Irineo Cabrerros , Physics and Mathematics, Structural color (Ariel Amir)	Francisco Galdos , Human Developmental and Regenerative Biology, Small molecule screen to identify novel molecular pathways required for pharyngeal arch artery formation in zebrafish (Caroline Burns and Geoffrey Burns)	Arpon Raksit , Mathematics, Representations of Lie groups and Lie algebras (Joseph Harris)
Tuesday, 8/7 Room 221 Introducer: Afoma Umeano	Brandon Gerberech , Engineering Sciences, Dendritic crystal patterning for tissue scaffold engineering (Sujata Bhatia)	Ryan Lee , Undecided, A novel platform for the selective chemical labeling of cellular RNAs (David Liu)	Melissa Chan , Chemistry, Colony dwarfing of <i>E. coli</i> in response to carbon starvation (Ralph Mitchell)	Daniel Park , Human Developmental and Regenerative Biology, Directed differentiation of dopaminergic neurons from human induced pluripotent stem cells to model Parkinson's disease (Lee Rubin)	Maria Bendana , Engineering Sciences (SB), 8 degrees of freedom haptic interface for dexterous micro-manipulation system (Robert Wood and Robert Howe)	Gunsagar Gulati , Human Developmental and Regenerative Biology, Finding therapeutics for anyotrophic lateral sclerosis via chemical screens (Lee Rubin)	Neil Patel , Human Evolutionary Biology, The self domestication hypothesis: Understanding the genetic basis of complex traits through domesticated animals (Maryellen Ruvolo)	Lucy Chen , Physics, Plasmonic transfection substrate optimization by finite-difference time-domain simulations (Eric Mazur)	Akhilesh Pathipati , Organismic and Evolutionary Biology, Prediction of abstract verses relatable movement (John Assad)
Tuesday, 8/7 Room 319 Introducer: Josh Wortzel	Richard Liu , Chemistry and Physics, C-H bond animation with high-spin iron complexes (Theodore Betley)	Morgan Paull , Engineering Sciences, Bacteria-mediated gene therapy (Pamela Silver)	Alexander Tang , Human Developmental and Regenerative Biology, An isogenic model of ANGPTL3 deficiency in differentiated human hepatocyte-like cells (Kiran Musunuru)	Katrina Williamson , Engineering Sciences, Optimizing Ibuprofen release from hydrogels (Sujata Bhatia)	Carlos Rodriguez-Russo , Human Developmental and Regenerative Biology, Engineered stem cell homing: assessing how membrane structure affects FTVI specificity on the cell surface (Robert Sackstein)	Leandra Barnes , Chemical and Physical Biology, Investigating end-loop chromosome segregation in <i>Bacillus subtilis</i> (Briana Burton)	Jenny Liu , Computer Science, Designing culturally adaptive user interfaces (Krzysztof Gajos and Ken Nakayama)	Christine Choi , Molecular and Cellular Biology, MELK as a potential therapeutic target for ovarian cancers (Jean Zhao)	Charesa Smith , Organismic and Evolutionary Biology, Candidate retroviral restriction factor TRIM6 (Norman Letvin)
Tuesday, 8/7 Room 323 Introducer: Esther Wu	Steve Burke , Engineering Sciences, Robotic system for efficient production of malaria vaccine (Robert Howe)	Garrett Kingman , Human Developmental and Regenerative Biology, The role of WDR62 in neuronal migration (Chris Walsh)	Justin To , Chemistry, Development of a palladium-catalyzed C-H fluorination of arenes (Tobias Ritter)	Brian Boursiquot , Biomedical Engineering, Self-assembling peptide-based nanoparticles (Neel Joshi)	Michael Drumm , Undecided, What makes us dream (Bob Stickgold)	Radovan Vasic , Human Developmental and Regenerative Biology, Bone and fat: Niche remodeling in bone marrow transplant (David Scadden)	Godwin Abiola , Biomedical Engineering, Design of naturally derived hydrogels for growth and regeneration of neuronal cells (Sujata Bhatia)	Rachel Moda , Neurobiology, Characterizing transcriptional regulation of the DYT6 dystonia gene, THAP-1 (Christopher Bragg)	Herbert Castillo , Neurobiology, Identification of specific genes and potential gene regulatory mechanisms by which UBE3a increase (Idic15 Autism, Ube3a2xtg) alters gene expression in cortex and cerebellum (Mathew Anderson)

Wednesday, August 8, 2012

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Wednesday, 8/8 Room 119 Introducer: Ryan Christ	Amy Tai , Computer Science and Math, Playing with an in-memory database (Eddie Kohler)	Xinrui Zhang , Molecular and Cellular Biology, Mitochondrial Phb-2 mutation stimulating drug detoxification <i>C. elegans</i> (Gary Ruvkun)	Eric Zheng , Chemical and Physical Biology, Spice & ice: How to make a protein Swiss Army knife (Rachelle Gaudet)	Elizabeth Harvey , Human Evolutionary Biology, Isotopic changes with cooking (Noreen Tuross)	Eric Bersin , Biomedical Engineering, Room temperature sensing of single spins (Lukin Group)	Eden Liu , Human Developmental & Regenerative Biology, Effect of exercise on muscle regeneration (Amy Wagers)	Gary Carlson , Engineering Sciences, Plantar pressure measurement insole using MEMS barometric sensors (Conor Walsh)	Edward Gan , Computer Science, Integrating resources and values in a programming language, (Greg Morrisett)	Abiola Laniyonu , Computer Science and Math, Differential Privacy, (Sali Vadhan)
Wednesday, 8/8 Room 123 Introducer: Alice LI	Shaunte Butler , Neurobiology, Characterization of cranial nerve trajectory in R380C TUBB3 Mice (Elizabeth Engle)	Seungjun Kim , Human Developmental and Regenerative Biology, Heterogeneity in regenerative support among reactive astrocytes in the mouse neocortex (Qiao Zhou)	Emily Unger , Organismic and Evolutionary Biology, Non-enzymatic RNA replication: Unraveling the chemical origins of life (Jack Szostak)	Jeffrey Bond Wang , Applied Math in Biology, Investigating how promoter architecture decodes complex transcription factor signaling (Erin O'Shea)	Ana Rivera , Human Developmental and Regenerative Biology, The role of p53 in cellular response to DNA damage in human embryonic stem cells (Galit Lahav)	Dan Ranard , Physics, Optical binding (Jene Golovchenko)	Olive Tang , Chemical and Physical Biology, Roles of topoisomerases in chromosome segregation in <i>Bacillus subtilis</i> (David Rudner)	Lingjin Zheng , Neurobiology, Neuron type specific tracing from dopaminergic and GABAergic neurons in the Ventral Tegmental Area (Naoshige Uchida)	Amanda Lu , Organismic and Evolutionary Biology, Recent evolution of <i>Mycoplasma gallisepticum</i> in <i>Carpodacus mexicanus</i> (Scott Edwards)
Wednesday, 8/8 Room 221 Introducer: Afoma Umeano	Audrey Young , Neurobiology, The effect of early experience on emotional face processing (Charles Nelson)	Ruth Choa , Biomedical Engineering, Chemotaxis and recruitment of mesenchymal stem cells (David J. Mooney)	Ian Choi , Chemical and Physical Biology, A step towards nuclease-resistant DNA nanorobots (Peng Yin)	Jonathan Tran , Human Developmental and Regenerative Biology, Roles of Mst1/2 during airway regeneration (Jayarai Rajagopal)	Rolando La Placa , Joint Physics and Mathematics, Extraction efficiency of NV centers in diamond using photonics crystals (Marko Loncar and Steven G. Johnson)	Reshma Lutfeali , Molecular and Cellular Biology, Influence of translation inhibition on mitotic spindles in <i>Xenopus cytosstatic</i> factor arrested extract (Michael Blower)	Stephanie Lim , Neurobiology, Selective labeling of CSMN using transcriptional enhancer elements (Jeffrey Macklis)	Christine Shrock , Neurobiology, The role of ionic zinc in neuronal cell death after optic nerve injury (Larry Benowitz)	Abel Arwaga , Physics, Introduction of single photon emitters in nano-diamond (Evelyn Hu)
Wednesday, 8/8 Room 319 Introducer: Josh Wortzel	Christian Anderson , Mathematics and Physics, Predicting animal behavior with theoretical physics (Erel Levine)	Jennifer Chen , Human Developmental and Regenerative Biology, Optimizing expression of chimeric antigen receptors (CARs) for immunotherapy, (Pamela Silver)	Opeyemi Alabi , Human Developmental and Regenerative Biology, Examining the connective principles of axons synapsing on a basal dendrite (Jeff Lichtman)	Tish Li , Undecided, Stabilization of <i>in vitro</i> beta-cell phenotype by the extracellular matrix (Rich Lee)	Amy Wann , Human Developmental and Regenerative Biology, Modeling fatty liver disease using human embryonic stem cells (Chad Cowan)	Lynn Shi , Neurobiology, Tracing the brain's connections to dopamine neurons (Nao Uchida)	Emmanuel Figueroa , Human Developmental and Regenerative Biology, Designing a system to rapidly create TALENs in order to facilitate genome editing of human pluripotent stem cells (Chad Cowan)	Alex Krolewski , Physics and Astrophysics, Improving the Pan-STARRS outer solar system data-processing pipeline (Matt Holman)	Diana Powell , Astrophysics and Physics, Planet formation signatures around young stars (Catherine Espaillat)
Wednesday, 8/8 Room 323 Introducer: Esther Wu	Johnny Li , Human Developmental and Regenerative Biology, Studies of the regulation of a novel liver-specific gene controlling pancreatic β -cell replication (Doug Melton)	Anita Murrell , Organismic and Evolutionary Biology, Wing kinematics of horizontal vs. vertical foraging flight in <i>Bombus impatiens</i> (Stacey Combes)	Lawrence Chiou , Chemistry and Physics, A multi-type branching process model for cancer dedifferentiation and mutation (Benjamin Allen)	Laura Polding , Neurobiology, Automaticity in object recognition in <i>Rhesus macaque monkeys</i> (Margaret Livingstone)	Constantine Tarabanis , Molecular and Cellular Biology, Investigating the LPS-mediated signaling pathway leading to proteinuria (Anna Greka)	Lucy Zhong , Chemistry and Physics, Characterization of endogenous metabolite-protein interactions for Orphan Nuclear Receptor Nurrl, a potential target of Parkinson's disease (Alan Saghatelian)	Brandon Sim , Physics, Functionalized ensemble chemical annealing for rational drug discovery (Alex Kentsis)	Yucheng Pan , Undecided, MicroRNA and local protein synthesis in callosal projection neurons (Jeffrey Macklis)	William Zhang , Undecided, Development of an NAD ⁺ sensor in live mammalian cells (David Sinclair)