

PRISE 2016 -- FINAL PRESENTATION SCHEDULING MATRIX

Friday, August 5, 2016

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
Friday, 8/5 Room 221 Introducer: Joel Bateman	David Gonzalez-Dysinger , Physics, Constraining dark matter electron scattering (Cora Dvorkin)	Gaia Linfield , Integrative Biology, Investigating age-related changes in the neuronal circuits underlying multisensory processing in <i>C. elegans</i> (Yun Zhang)	Bonirath Chhay , Engineering Sciences, Manipulating innate immunity genes to study host regulation of the microbiota (Robert Brucker)	Jennifer Hu , Mathematics & Linguistics, Developing a system for testing synchronous tree-adjointing grammar analyses of linguistic phenomena (Stuart Shieber)	Leah Marsh , Molecular and Cellular Biology, Artificial antigen-presenting cells for CAR T cell stimulation (Marcela Maus)	Sai Shanthanand Rajagopal , Studies of Women, Gender, and Sexuality and Biomedical Engineering, Identifying genes involved in sepsis resistance and tolerance (Sriram Chandrasekaran)		Edgar Garcia , Human Developmental and Regenerative Biology, Effects of DNA damage on fibrotic cell cycle arrest in kidney organoids models (Joseph Bonventre)	
Friday, 8/5 Room 222 Introducer: Hueyjong Shih	Brandon Lee , Statistics and Molecular and Cellular Biology, Towards the structure of an outward-facing Nramp transition metal transporter (Rachelle Gaudet)	Jaden Freeze , Chemistry and Physics, Fluorescence and electron microscope image registration using EM dense labels in zebrafish (Florian Engert)	Matthew Leifer , Undeclared, Information elicitation and Google Local Guides (David Parkes)	Artidoro Pagnoni , Computer Science and Physics, Component placement genetic optimizer (Gu Wei)		Jacob Scherba , Bioengineering, Adhesion and differentiation of dental pulp stem cells to a novel therapeutic biomaterial (David J. Mooney)	Mohamed Ebied , Biomedical Engineering, Formation of mirror neurons in the human brain (John Assad)	Ian Maynor , Linguistics, The effects of kin discrimination on <i>P. Mirabilis</i> swarming in type VI secretion mutants (Karine Gibbs)	
Friday, 8/5 Room 304 Introducer: Maddie Snyder	Kruti Vora , Molecular and Cellular Biology, Enabling natural killer cell tumor immunotherapy using CRISPR-Cas9 deletion of inhibitory receptor genes (Chad Cowan)	Santiago Vargas , Chemistry, Characterization of intron elements that control splicing in Unc-16 gene (John Calarco)		Katie Kixmoeller , Chemistry and Physics, Designing a new high-throughput screen for molecules that contribute to cell fate determination (Douglas Melton)	Ramtin Talebi , Molecular and Cellular Biology, Mechanisms of melanoma resistance to TIL-therapy and PD-1 inhibition (Levi Garraway)		Matthew Aguirre , Applied Mathematics, Application of open source machine learning methods for genetic variant classification (Daniel MacArthur)	Val Leifer , Computer Science, Contextual multi armed bandits and content recommendation (David Parkes)	
Friday, 8/5 Room 309 Introducer: Vimal Konduri	Lauren Sweetland , Neuroscience, Uncovering the genetics of proprioception (David Ginty)	Naomi Asimow , Chemical and Physical Biology, Role of OSR1 in female reproductive tract development (Ursula Kaiser)	Shenyce Ferguson , Neurobiology, Disruption of memory consolidating slow oscillations by amyloid in Alzheimer's disease (Brian Bacskai)	Myles Ingram , Biophysics, Heat shock on <i>C. elegans</i> (Erel Levine)	Scott Xiao , Chemistry, Identification of MB21D2 as a novel cancer gene (Matthew Meyerson)	Helene Lovett , Integrative Biology, Characterizing the neural basis of instinctive behavior (Catherine Dulac)	Erica Budina , Bioengineering, The role of T-cell phenotype on endothelial cell sprouting and myogenic progenitor cell proliferation and differentiation (David Mooney)	Jade Moon , History and Science, Developing a SNP-based barcode for <i>Babesia microti</i> (Pardis Sabeti)	
Friday, 8/5 Room 309A Introducer: Kaan Yay	Yamen Abbas , Human Developmental and Regenerative Biology, Evolutionarily conserved role of C5aR1 in cardiac regeneration (Aysu Uygur)	Joshua Meier , Chemistry and Computer Science, Methods for CRISPR library design and <i>in vivo</i> delivery of gene editing proteins (Feng Zhang)	Mingu Kim , Applied Mathematics, Characterizing predictive neural networks (David Cox)	Adam Frim , Physics and Mathematics, Clicks in the motion of the Euler Disk (Ariel Amir)	Charles Law , Astrophysics, Modeling the 3D kinematic structure of oxygen-rich supernova remnant N132D (Dan Milisavljevic)	George Qiao , Chemistry, Palladium porphyrins (Conor Evans)	Carl Denton , Computer Science and Physics, Improving sequence handling in deep learning (Alexander Rush)	John Austin , Molecular and Cellular Biology, An age-dependent study of lymph node innervating nociceptors (Ulrich von Andrian)	

Monday, August 8, 2016

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
Monday, 8/8 Room 221 Introducer: Justin Dower	Shaan Ajay Desai , Quantifying thermodynamic properties of graphene heterostructures (Philip Kim)	Luke Smith , Medicine, Modelling the hypothalamic-gut axis (Qiao Zhou)	Leah Rosen , Applied Mathematics, Studying epithelial polarity in the nematode <i>C. elegans</i> (Susan Mango)	Julia Versel , Neurobiology, Relations between sleep spindles and white matter pathways in schizophrenia (Dara Manoach)	Lin Ni , Neurobiology, The function of the cysteinyl leukotriene receptor 2 in itch pathology (Isaac Chiu)	Jennifer Bi , Neurobiology, The importance of dopamine in executing sequential tasks (Naoshige Uchida)	Julio Fierro , Molecular and Cellular Biology, SID-1 independent transport of RNA in <i>C. elegans</i> (Craig P. Hunter)	Alexander Munoz , Applied Mathematics, Modulation of intestinal epithelial and microbial homeostasis in a murine model (Richard Hodin)	Mai-Linh Ton , Molecular and Cellular Biology, Role of hexamer repeats in pathogenesis in XDP (Christopher Bragg)
Monday, 8/8 Room 222 Introducer: Joel Bateman	Ben Sorscher , Physics and Mathematics, Whole brain imaging to determine neuronal dynamics in <i>C. elegans</i> (Aravinthan Samuel)	Keegan Mendez , Biomedical Engineering, A replenishable reservoir for cardiac therapy (Conor Walsh)	Youbin Kim , Physics, A novel design for compact and parallelizable current stimulation and recording (Donhee Ham)	Gui Zhen Chen , Undeclared, Transnuclear iNKT mice show that iNKT functional subsets are not determined by TCR specificity, but correlate with tissue of residence (Stephanie Dougan)	Margaret Panetta , Physics and Astrophysics, Exploring the behavior of thin-film BSCCO (Philip Kim)	Eliza Llewellyn , Molecular and Cellular Biology, Investigating RNase Y's interaction with the Y proteins (Richard Losick)	Siddharth Yarlagadda , Human Evolutionary Biology, Investigating the effect of regulatory genomic sequences on susceptibility to osteoarthritis (Terence Capellini)	Kimberley Yu , Chemical and Physical Biology, Understanding regulation of splicing after infection (Chris Burge)	Michael Giles , Undeclared, Directed evolution of ferritin for heavy metal sequestration (Pamela Silver)
Monday, 8/8 Room 304 Introducer: Hueyjong Shih	Josh Breedon , Medicine, Object recognition in rats (David Cox)	James Hotchkiss , Mathematics, Enumerative problems in algebraic geometry (Joseph Harris)	Ellen Zhang , Human Developmental and Regenerative Biology, The role of Arrdc3 in fructose absorption in the small intestine (Richard Lee)	Christine Zheng , Chemistry, Discovering the biosynthetic pathway for alanosine (Emily Balskus)	Victoria Lin , Molecular and Cellular Biology and Statistics, A computational approach for classifying nervous system cell subtypes using mRNA expression profiles (Steven McCarroll)	Rachel Oshiro , Undeclared, Evaluation of candidate genes for size regulation in vertebrates (Jessica Whited)	Chris Dolliff , Chemistry and Physics, Detecting Earth-like exoplanets using the radial velocity method (David Phillips)	Soumyaa Mazumder , Molecular and Cellular Biology, Using <i>in vitro</i> mouse and human spinal muscular atrophy models to investigate the effect of survival of motor neuron deficiency on satellite cells (Lee Rubin)	Dia Ghose , Biochemistry, T cell exhaustion: a molecular approach (Richard Blumberg)
Monday, 8/8 Room 309 Introducer: Maddie Snyder	Isobel Green , Cognitive Neuroscience and Evolutionary Psychology, The effect of affective priming on reward processing in depression (Diego Pizzagalli)	Maddy Granovetter , Molecular and Cellular Biology, The role of FXR1 on MicroRNAs in cancer (Shobha Vasudevan)	Handong Park , Investigating the symplectic ellipsoid embedding function (Daniel Cristofaro-Gardiner)	Krystal Phu , Undeclared, Regulation of cardiac regenerative capabilities (Richard Lee)	Jason Li , Molecular and Cellular Biology, HSF1 activity and cell morbidity in aging (Vlad Denic)	Emma He , Neurobiology, The role of 5HT3aR cells in cortical plasticity (Takao Hensch)	Thomas Culp , Physics, The design and implementation of data acquisition and control systems in the detection of B-mode polarization in the cosmic microwave background (John Kovac)	Linda Qin , Molecular and Cellular Biology, Hematopoietic stem cell (HSC) gene therapy for very early onset inflammatory bowel disease (VEO-IBD) (Christian Brendel)	Christina Zeina , Chemistry, Directed evolution of Cas9 (David Liu)
Monday, 8/8 Room 309A Introducer: Vimal Konduri	Lily Tsai , Computer Science, Concurrent algorithms in transactional data structures (Eddie Kohler)	Julian Braxton , Chemical and Physical Biology, Mechanisms of virulence in <i>Klebsiella pneumoniae</i> ST-258 (Deborah Hung)	Hannah Larson , Mathematics, Lines on hypersurfaces (Joe Harris)	Oliver Philcox , Astrophysics, How to weigh a galaxy (Akos Bogdan)	Alexander Jin , Molecular and Cellular Biology, Generating alveolar rhabdomyosarcoma in <i>Danio rerio</i> (David Langenau)	Alvar Paris , Medicine, Investigation into the role of CA3c and CA2 in pattern separation and completion in the hippocampus (Amar Sahay)	Deanna Emery , Physics and Astrophysics, X-ray emissions from L, T, and Y type brown dwarfs (Akos Bogdan)	Sahar Ashrafzadeh , Molecular and Cellular Biology, Studying phenotype in human knockdowns of <i>LRKK2</i> and <i>HTT</i> to explore therapeutic strategies for Parkinson's and Huntington's diseases (Daniel MacArthur)	Kushi Mallikarjun , Molecular and Cellular Biology, The neuronal basis of motor skill learning and execution (Bence Olveczky)

Tuesday, August 9, 2016

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Tuesday, 8/2 Room 221 Introducer: Kaan Yay	Sayo Eweje , Bioengineering, Developing a higher throughput platform for studying skeletal muscle development and drug response <i>in vitro</i> (Kit Parker)	Peter Kraft , Computer Science, Automatically scalable computation (Margo Seltzer)	Jacob Meyerson , Physics, Code to aid the design of a high-field magnet for a nuclear fusion reactor (Joe Minervini)	Max Miao , Chemical and Physical Biology, The role of PDK4 in regulating Th17 cell pathogenicity (Vijay Kuchroo)	Lucy Nam , Molecular and Cellular Biology, Towards vascularizing cerebral organoids <i>in vitro</i> (Jennifer Lewis)	Silvia Golumbeanu , Integrative Biology, Embryonic origins of stem cells in an acoeel worm (Mansi Srivastava)	Natasha Dhamankar , Biomedical Engineering, Drug delivery through slippery lubricant-infused porous surfaces (Joanna Aizenberg)	Andrew Mazzanti , Human Developmental and Regenerative Biology, Investigating the role of non-classical progesterone receptors in HLA-G expression at the maternal-fetal interface (Jack Strominger)	
Tuesday, 8/9 Room 222 Introducer: Justin Dower	Elgin Korkmazhan Gulpinar , Chemistry and Physics, The statistical physics of mRNA dynamics (Erel Levine)	Kateryna Pistunova , Physics, Ohmic contacts to 2D semiconductors (Philip Kim)	Bahlakoana Mabetha , Electrical Engineering, Borobee power electronics and Minerva Test Bed (Paul Whatmough)	Pooja Chandrashekar , Biomedical Engineering, Developing a predictive model to identify high-risk head/neck patients with vascular anomalies for early intervention (John Brownstein)	Muhammed Ors , Molecular and Cellular Biology, Pursuing synergy: PI3K and Myc inhibitors and cell viability (Angela Koehler)	Nicolas Ontiveros , Electrical Engineering, Printed sensors for medical devices (Rob Wood)	Will Fried , Mechanical Engineering, Programmable motion in colloidal systems (Vinothan N. Manoharan)	Kristin Tsuo , Organismic and Evolutionary Biology, Genome-wide analyses of body proportion (Joel Hirschhorn)	
Tuesday, 8/9 Room 304 Introducer: Joel Bateman	André Franco-Vasquez , Human Developmental and Regenerative Biology, Characterization of stem cells in the acoeel <i>Hofsternia miamia</i> (Mansi Srivastava)	Felipe Flores , Molecular and Cellular Biology, NLGN4X knockdown in triple negative breast cancer (Kornelia Polyak)	Mara Coyan , Molecular and Cellular Biology, Validating mouse models of acquired lubricin deficiency (Matthew Warman)	Alex Pai , Human Developmental and Regenerative Biology, NEUROD6 as a novel therapeutic target in Parkinson's disease (Lee Rubin)	Miruna Cristus , Applied Mathematics, Odor object recognition in mice (Venkatesh Murthy)	Jett Crowdis , Molecular and Cellular Biology, Subclonal cooperation in triple negative breast cancer - A study in intratumoral heterogeneity (Joan Brugge)	Cynthia Luo , Organismic and Evolutionary Biology, Development of qPCR diagnostic tools for Zika virus (Pardis Sabeti)	Bluyé DeMessie , Molecular and Cellular Biology, Elucidating the resistance mechanism of medulloblastoma to BET inhibition (Rameen Beroukhim)	
Tuesday, 8/9 Room 309A Introducer: Hueyjong Shih	Mary Wan , East Asian Studies, Metabolomic profiling of chronic kidney disease and type 2 diabetes in the Jackson Heart Study (Robert E. Gerszten)	Chris Li , Human Developmental and Regenerative Biology, A Cas9-mediated genome-wide screening approach to identifying novel regulators of primed pluripotency in epiblast stem cells (Konrad Hochedlinger)	Gerardo Castillo , Molecular and Cellular Biology, Enforced expression of E-selectin ligand on mesenchymal stem cell-derived exosomes via exofucosylation (Robert Sackstein)	Chris Cantrell , Human Developmental and Regenerative Biology, TDP43 mislocalization: A model of ALS and similar neurodegenerative diseases (Kevin Eggan)	Deepika Kurup , Neurobiology, Photocatalytic sand for the removal of multiple classes of toxins from water (Roy Gordon)	Audrey Effenberger , Neurobiology, Modeling microglia in demyelinating diseases (Zhigang He)	Adriana Mendez Leal , Early biomarkers for language development in infant siblings of children with autism spectrum disorder (Charles Nelson)	Yong (Daniel) Shen , Human Developmental and Regenerative Biology, Gene activation with CRISPR-dCas9 based tools (Richard I. Sherwood)	
Tuesday, 8/9 Room 309A Introducer: Maddie Snyder	Jessica Kim , Chemistry and Physics, Engineering probiotic bacteria for <i>in vivo</i> tracking in the gut (Neel Joshi)	Andre Sanchez , Chemistry and Physics, Design, development & synthesis of novel macrolide antibiotics as tools against resistant bacteria (Andrew Myers)	Suproteem Sarkar , Computer Science, Swarm locomotion: Biologically inspired rules for self-organized structure formation in an army ant-inspired soft robot (Radhika Nagpal)	Daniel Um , Undeclared, Converting plastic into electricity using bacteria (Neel Joshi)	Alan Bidart , Mathematics, BSD conjecture, elliptic curves and solving the mystery of the Queen's Head Pub (Joe Harris)	Brandon Wright , Chemistry, Design and synthesis of bisubstrate inhibitors for nicotinamide N-methyltransferase (Matt Shair)	Anne Cheng , Neurobiology, X-Linked dystonia parkinsonism (Christopher Bragg)	Michael Liu , Human Developmental and Regenerative Biology, KFM1 and microglia in the development of corticospinal motor neurons (Jeffrey Macklis)	