

3rd Annual UC Davis

Postdoctoral Research Symposium

Wednesday April 12th, 2017

UC Davis Conference Center



Oral Session 1

“My Chemical Romance”

Topic	Biochemistry
Chair Person	Lauren Libero
Location	Conference Room A

Time	Author	Title
9:00 AM	Ivana Blazenovic	Increasing compound identification rates in untargeted metabolomics research
9:15 AM	Marie Hennebelle	Liver and brain oxidized linoleic acid metabolites are mainly provided through endogenous synthesis from their precursor.
9:30 AM	Amy Rand	Unsaturated fatty acids metabolize to form signaling molecules involved in blood vessel development
9:45 AM	Muzi Na	Trends and factors of poor complementary feeding practices in Nepal from 2001 to 2014
10:00 AM	Tong Shen	Metabolomics analysis by ion mobility mass spectrometry
10:15 AM	Erin Olsan	Fecal Microbiota Transplant Partially Restores Colonization Resistance to Carbapenem-Resistant Enterobacteriaceae



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Oral Session 2

“She Thinks My Tractor’s Sexy”

Topic	Agriculture
Chair Person	Nicky Creux
Location	Ballroom A

Time	Author	Title
9:00 AM	Julie Hopper	Current State of the Biological Control of Invasive Water Hyacinth, <i>Eichhornia crassipes</i> , in the Sacramento-San Joaquin River Delta
9:15 AM	Margarita Huesca	Discrimination of Canopy Structural Types in the Sierra National Forest in Central California
9:30 AM	Mélanie Massonnet	Virulence-associated genomic and transcriptomic traits of a serial vine-killer: <i>Neofusicoccum parvum</i>
9:45 AM	Jesse Miller	Effects of fire severity on herbaceous plant biodiversity
10:00 AM	Cassandra Plank	Grapevine Red Blotch-Associate Virus Alters Vine Physiology Resulting in Unstable Berry Flavonoid Composition
10:15 AM	Keshav Singh	Studying Economical Crops Health using Airborne Technology for Agricultural Innovation and Sustainability in California



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Oral Session 3

“Radioactive”

Topic	Molecular Biology
Chair Person	Emma Skoog
Location	Ballroom C

Time	Author	Title
9:00 AM	Anne Hergarden	Investigating the Association of Cyclin G2 with β -catenin Complexes in Mature Neurons
9:15 AM	Kimberly Keil	Primary Hippocampal Neurons Derived from Female Mice Are More Sensitive to the Dendrite Promoting Activity of 2,2',3,5',6-Hexachlorobiphenyl (PCB 95) than Neurons from Male Mice
9:30 AM	Benjamin Laufer	Molecular Memories of Maternal Care: Epigenetic Modifications in the Brain Shape Resilience to Stress
9:45 AM	Ivar Stein	NMDA receptor signaling mechanisms in activity-dependent spine shrinkage
10:00 AM	Daniel Standage	Kevlar: reference-free variant discovery in human genomes and beyond
10:15 AM	Annie Vogel Ciernia	Maternal allergic asthma alters gene expression and regulation in offspring microglia



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Oral Session 4

“Ain’t No Mountain High Enough”

Topic	Life Science Technologies
Chair Person	Mohan Prem Ananad Marimuthu
Location	Conference Room A

Time	Author	Title
1:30 PM	Adrien Durand-Petiteville	A robot in the orchards
1:45 PM	Coy McNew	Using DNA-labelled nano- and microparticles to track particle transport in the environment
2:00 PM	Marion Nachon	Study Mars in California : samples from Iron Mountain (Redding) to understand martian rocks encountered by the Curiosity rover
2:15 PM	Nimlesh Balaine	Greenhouse gases from irrigated rice systems under reduced water management.
2:30 PM	Mehdi Ghasemizade	Application of integrated surface-subsurface models for managed aquifer recharge
2:45 PM	Matthew Zinkgraf	Comparative genomics analysis of gravitropic response in a phylogenetic survey of Angiosperm trees



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Oral Session 5

“Welcome to the Jungle”

Topic	Animal and Behavior
Chair Person	Simone Hasenbein
Location	Ballroom A

Time	Author	Title
1:30 PM	Essam Abdelfattah	Duck welfare assessment: a comparison of methods
1:45 PM	Antoine Abrieux	Molecular and neuronal basis of the insect photoperiodic timer
2:00 PM	Sara Freeman	What do monogamous monkeys look at? Establishing non-invasive eye-tracking methods for the study of social cognition in nonhuman primates.
2:15 PM	Orr Spiegel	The feedback between where we go and what we know – Information shapes movement, but movement also impacts information acquisition
2:30 PM	Ammon Thompson	Transcriptome turnover in Drosophila male reproductive organs
2:45 PM	Shay O'Farrell	The costs and benefits of exploratory behaviour by humans



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Oral Session 6

“I Will Survive”

Topic	Human Disease
Chair Person	Annie Vogel Ciernia
Location	Ballroom C

Time	Author	Title
1:30 PM	Laura Bouchareychas	The interaction of IL-23 with its receptor is critical in skin inflammation associated with psoriasis
1:45 PM	Lauren Berger	Unpacking the Relationship between Ethnic Identity and Adjustment among Biracials: The Mediating Role of Identity Discrepancies
2:00 PM	Pete Trimmer	Signal Detection Theory is Wrong
2:15 PM	Aleksandr Pevzner	The Shocking Cure for Brain Injury
2:30 PM	Tiffany Scharadin	Combined inhibition of FMS-like Tyrosine Kinase 3 (FLT3) and Inhibitors of Apoptosis Proteins (IAP) to overcome resistance in Acute Myeloid Leukemia (AML)
2:45 PM	Lauren Libero	Atypical patterns of cortical folding in preschool-aged boys with autism spectrum disorder



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Oral Session 7

“It’s a Small World After All”

Topic	Microbiology
Chair Person	Orr Spiegel
Location	Conference Room A

Time	Author	Title
4:00 PM	Elizabeth Antaki	Tilapia-butter head lettuce: Survival of Salmonella in recirculating aquaponic systems (RAS)
4:15 PM	Denise Bronner	Short chain fatty acid utilization provides an evolutionary intestinal fitness for Salmonella
4:30 PM	Mariana Byndloss	Microbiota-induced epithelial PPAR- γ -signaling thwarts dysbiotic pathogen expansion
4:45 PM	Erin Olsan	Fecal Microbiota Transplant Partially Restores Colonization Resistance to Carbapenem-Resistant Enterobacteriaceae
5:00 PM	Corinne Fairchild	Let-7 regulates cell cycle dynamics in the retina and cortex: a potential mechanism for miRNA-driven progenitor competency transitions
5:15 PM	Nicky Creux	Environmental cues and the internal circadian clock regulate the timing of flowering and co-ordinate pollinator visits in sunflower



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Oral Session 8

“Domo Arigato Mr. Roboto”

Topic	Technology
Chair Person	Keshav Singh
Location	Conference Room B

Time	Author	Title
4:00 PM	Brittany Anderton	Hybrid thematic analysis reveals a codebook to assess biotechnology learning
4:15 PM	Mehdi Azimipour	A High-Resolution Multimodal Imaging System for Studying The Retina
4:30 PM	Randy Carney	Multispectral optical tweezers as a new tool for biomolecular fingerprinting of single exosomes
4:45 PM	Edward Montiel	Elemental Fingerprinting at 40,000 Feet -- Science with the Echelon Cross Echelle Spectrograph
5:00 PM	Ryan James	Multivariate Dependence Beyond Shannon Information
5:15 PM	Martin Rohden	Curing critical links in oscillator networks as power flow models



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Oral Session 9

“Singing in the Rain”

Topic	Climate Change
Chair Person	Mehdi Ghasemizade
Location	Ballroom A

Time	Author	Title
4:00 PM	Andrea Ariani	Identification of drought resistance in wild populations of <i>Phaseolus vulgaris</i> using an ecological genomic approach
4:15 PM	Atefeh Taheri	Clean Energy: Harnessing CO ₂ to Combat Climate Change
4:30 PM	Seyed Mahdi Ghamkhari	Optimizing Water Distribution System in California
4:45 PM	Simone Hasenbein	Climate change stressors enhance exposure effects of a pyrethroid insecticide on the amphipod <i>Hyalella Azteca</i>
5:00 PM	Rui Hui	Flood Memory Half-life and Flood Insurance
5:15 PM	Annika Keeley	Prioritizing connectivity to facilitate range shifts: a new conservation science challenge



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