



CA Society of Physiologists APS California Chapter Annual Conference



Friday November 4th, 2022

Medical Research Laboratory Building, The Lundquist Institute for Biomedical
Innovation at Harbor-UCLA Medical Center, Torrance, CA, 90502

8:00	8:45	Registration and Check-In
8:45	9:00	Welcoming Remarks Chapter President, Martha E. O'Donnell, UC Davis Harry B. Rossiter PhD and Denise Al Alam PhD, The Lundquist Institute
9:00	10:00	Free Communications 1: Cardiopulmonary Development, Aging and Disease Chairs: Soula Danopoulos and Rudy Ortiz
9:00	9:10	Nick Tiller. <i>The Lundquist Institute at Harbor-UCLA.</i> Dynamic Airway Function During Exercise In COPD Assessed Via Impulse Oscillometry
9:10	9:20	Yujuan Su. <i>UC San Diego.</i> Brainstem Dbh+ Neurons Control Chronic Allergen-Induced Airway Hyperreactivity
9:20	9:30	Randa Belgacemi. <i>The Lundquist Institute at Harbor-UCLA.</i> Stage-Dependent FGF Signaling Trigger Mesenchymal Cell Differentiation During Human Lung Development
9:30	9:40	Wanjun Gu. <i>UC San Diego.</i> Distinct Genetic Markers Associated with COVID-19 Severity in Latinx Populations from the Americas
9:40	9:50	Dora Mendez. <i>UC Merced.</i> Exogenous Thyroxine Increases GLUT4 Translocation and Improves Cardiac Metabolism in Insulin Resistant OLETF Rats
9:50	10:00	Maartje Westhoff. <i>UC Davis.</i> Deficits in Endosomal Recycling Contribute to β -Adrenergic Hypo-Responsivity in the Aging Heart
10:00	10:30	Coffee Break
<div>  <div> MGC DIAGNOSTICS® </div> </div> <div>Headquartered in Saint Paul, Minnesota, USA, MGC Diagnostics Corporation is a global medical technology company dedicated to cardiorespiratory health solutions</div>		
10:30	11:30	Keynote Address – Sponsored by MGC Diagnostics  <div> Luis Fernando Santana, PhD, FAHA <i>UC Davis</i> Embracing Diversity: How Biological Noise Tunes the Cardiovascular System </div>
11:30	12:30	Lunch

12:30	1:00	Business Meeting Including words from our sponsors
1:00	1:30	Free Communications 2: Injury, Inflammation and Immune Response Chairs: Mark Frey and Nicholas Jendzjowsky
1:00	1:10	Ethan Garcia. <i>UC San Francisco.</i> Tissue-Specific Mitochondrial HIGD1C Promotes Oxygen Sensitivity of Carotid Body Chemoreceptors
1:10	1:20	Pritha Chatterjee. <i>UC Riverside.</i> Role of Autoimmune Susceptibility, Ptpn2, in Mediating Host-Microbiome Interaction
1:20	1:30	Vini Canale. <i>UC Riverside.</i> PTPN2 is a Critical Regulator of Ileal Paneth Cell Viability and Function in Mice
1:30	2:00	Free Communications 3: Behavioral and Metabolic Disorders Chairs: Erica Heinrich and Carrie Ferguson
1:30	1:40	Elena Kozlova. <i>UC Riverside.</i> Behavior and Reduced Hypothalamic Oxytocin Content Produced By Perinatal Exposure To DE-71
1:40	1:50	Jessica Wilson. <i>UC Merced.</i> Cannabidiol Attenuates Multiple Cluster Factor Conditions of Metabolic Syndrome
1:50	2:00	Bailey Sanchez. <i>UC Merced.</i> Amino Acid, Monosaccharide, and Nucleotide Metabolism in Human Kidney Cells are Disrupted Following Human Adenovirus Serotype 5 Infection
2:00	2:30	Coffee Break
2:30	3:30	Trainee Career & Mentoring Session
3:30	4:30	Lightning Talks – Student and Trainee Poster Competition Chairs: Harry Rossiter and Denise Al Alam
4:30	5:45	Poster Presentations
5:45	6:00	Presentation of Awards
6:00		Close

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Lightning Talks – Student and Trainee Poster Competition		
Diane Aguilar	<i>The Lundquist Institute at Harbor-UCLA</i>	Investigating Nociceptor Pathogen Sensing Capabilities
Maximillian Denys	<i>UC Riverside</i>	Maternal Probiotic Therapy Protects Against DE-71-Induced Neurodevelopmental Delays in a Sex-Dependent Manner
Tyler Hilman	<i>Loma Linda University</i>	Caspase-9 Expression in the Cortex of a Novel Rodent Model for Preterm Hypoxic-Ischemic Encephalopathy
Caroline Cherry	<i>The Lundquist Institute at Harbor-UCLA</i>	Altered Differentiation in Upper Airway Epithelium in Trisomy 21
Eira Jardines	<i>UC Merced</i>	Angiotensin Receptor Blocker Attenuates Elevated Arterial Pressure and Reduces Body Mass in OLETF Rats Fed a High Cholesterol Diet
Hillmin Lei	<i>UC Riverside</i>	Loss of PTPN2 Activity Alters Iron Handling Gene Expression in IBD Patients and Causes Iron Deficiency in Mice
Andrew Frauenpreis	<i>The Lundquist Institute at Harbor-UCLA</i>	Endothelial Differentiation and Function in Trisomy 21
Mitchell Kong	<i>UC San Diego</i>	Identification of a Putatively Adaptive Promoter Variant in PRKAA1 in Andean Highlanders
Nicholas Iwakoshi	<i>Loma Linda University</i>	Heart Rate Variability (HRV) Analysis to Detect Physiological Changes of Mice Exposed to Hypergravity
Crystal Luna	<i>UC Riverside</i>	Effects of Probiotic <i>L.reuteri</i> Therapy on Social Behavior in An Environmental Autism Model
Jeff Moore	<i>The Lundquist Institute at Harbor-UCLA</i>	Distinguishing Increased Adiposity and/or Aerobic Deconditioning as Moderators of Low VO ₂ peak in Obese Men
Taylor Voelker	<i>UC Davis</i>	PI(4,5)P2 Regulation of CaV1.2 L-Type Ca ²⁺ Channel via AngII signaling in the Heart
Meli'sa Crawford	<i>UC Riverside</i>	Intranasal Exposure to Hog Dust Extract Promotes Endotoxemia and Increases Gene Expression of TNF- α and Secretory Epithelial Cell Markers in Mouse Intestine
Imad El Alam	<i>The Lundquist Institute at Harbor-UCLA</i>	Effect of Cannabinoids and Nicotine on Prenatal Human Lung
Silvia Garcia del Villar	<i>UC Davis</i>	Tight Regulation of BIN1 is Essential for β -adrenergic Responsivity in the Myocardium
Clara Berdasco	<i>UC Riverside</i>	Inflammation in a Mouse Model of Gulf War Illness

Posters		
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Clara Berdasco	<i>UC Riverside</i>	Inflammation in a Mouse Model of Gulf War Illness
Carolyn Oudiz	<i>CSU Dominguez Hills</i>	Physical Activity and Body Mass Index During the COVID-19 Pandemic
Andy Chang	<i>UC San Francisco</i>	Therapeutic Potential of Modulating Carotid Body Activity Through an Ectopic Olfactory Receptor
Suzzy Emily Campero	<i>UC Merced</i>	HPRT 1 Expression Reduction Trend of 1.37% in Exenatide Treated OLETF Rats
Erica Heinrich	<i>UC Riverside</i>	Inflammation and Immune Function During High Altitude Exposure
Esteban Moya	<i>UC San Diego</i>	Reduced Hypoxic Ventilatory and Heart Rate Responses to Hypoxia in Post- versus Premenopausal Tibetan Women in Mustang, Nepal
Elena Kozlova	<i>UC Riverside</i>	Behavior and Reduced Hypothalamic Oxytocin Content Produced By Perinatal Exposure To DE-71
Yujuan Su	<i>UC San Diego</i>	Brainstem Dbh+ Neurons Control Chronic Allergen-Induced Airway Hyperreactivity