2023 Metabolism, Obesity & Diabetes Scientific Retreat



UCSF NORC
UCSF DIABETES CENTER
UC BERKELEY METABOLIC BIOLOGY



MONDAY, MARCH 13 11:45 -12:45 **REGISTRATION (LOBBY), LUNCH IN SUNSET ROOM** 12:55 **GENERAL SESSIONS, SANTA CRUZ ROOM** Session 1 THE SPECTRUM OF METABOLIC INFLAMMATION 1:00 - 2:30 SESSION CHAIRS: AUDREY PARENT & BRIAN BLACK Anudari Letian, Goldberg Lab, UCSF - Neutrophils: an overlooked player in atherosclerosis Lulu Li, Koliwad Lab, UCSF - The Role of Myeloid IRE1alpha in Atherosclerosis Progression Owen Jiang, Bapat Lab, UCSF - Distinct High-fat Diet Regimes Divergently Modulate Experimental Models of Psoriasis Julia Nilsson, Molofsky Lab, UCSF - Exploring liver stromal niches - What's the flavor of liver fibrosis? Andrew Folick, Valdearcos Lab, UCSF - Single-cell RNA sequencing reveals Apolipoprotein E as a regulator of hypothalamic microglial nutrient responsiveness 2:30 - 3:00 **BREAK** Session 2 CENTRAL REGULATION OF BODY WEIGHT 3:00 - 4:30 SESSION CHAIRS: ROSHANAK IRANNEJAD & DENIS TITOV Annie Yue, Vaisse Lab, UCSF - Ligand dependent localization of MC4R at the primary cilium and body weight regulation Irene Ojeda Naharros, Nachury Lab, UCSF - Anorexigenic signals and tonic MC4R activity promote its BBSome-mediated exit from the primary cilium Gabriela Canales, Reiter Lab, UCSF - The BBSome Regulates Ciliary Levels of MC4R and ADCY3 in the Paraventricular Nucleus Truong Ly, Knight Lab, UCSF - An orosensory mechanism for pacing food ingestion Tomas Bachor, Xu Lab, UCSF - New Player in Feeding Regulation Jimmy Ma, Liu Lab, UCSF - Protein hunger gated nitrogen flow from phospholipids to amino acids in Drosophila 4:30 - 5:00 **BREAK NEW INSIGHTS INTO GLYCEMIC CONTROL** Session 3 5:00 - 6:15 SESSION CHAIRS: DIANA KUO & FEROZ PAPA Kristen Lavelle, German Lab, UCSF - Monogenic Type 1 diabetes: 2 novel candidate genes Diana Kuo, UC DAVIS - Investigating the systemic benefits of Gc inhibition Mangyu Choe, Titov Lab, UC BERKELEY - Function of allostery in regulation of alycolysis Xian Liu, Anderson Lab, UCSF - M Cells in The Thymus: Extending The Immunological Self-Shadow Bhushan Kharbikar, Tang Lab, UCSF - Biomimetic platform for Beta Cell

Replacement Therapy to Treat T1 Diabetes

DINNER, SUNSET RESTAURANT

6:30 - 7:30

7:30 - 9:30	POSTER SESSION & COCKTAILS, NEW BRIGHTON & LA SELVA ROOMS		Seok Hee Lee, Rinaudo Lab, UCSF - Blastocysts generated by in vitro
	CHAIRED BY SAGAR BAPAT, AUDREY PARENT & MARTIN VALDEARCOS		fertilization show increased Warburg metabolism and altered lactate production
9:30 - 11:00	SOCIAL HOUR & GAMES, SANTA CRUZ ROOM	3:15 - 6:30	RECREATIONAL TIME
	Tuesday, March 14	6:30 - 7:30	DINNER, SUNSET RESTAURANT
8:30 - 9:30	BREAKFAST, SUNSET RESTAURANT	7:30 - 8:30	Keynote Address, SANTA CRUZ ROOM
Session 4	THE ENTERIC-NUTRIENT REGULATORY AXIS		Introduction by Suneil Koliwad, Dr. Stephen Gitelman
9:30 - 10:45	SESSION CHAIRS: DIANA ALBA & ANDREAS STAHL		Altering the course of type 1 diabetes: end of the beginning?
	George Lemieux, Ashrafi Lab, UCSF - A gut-derived steroid hormone that promotes learning through modulating levels of a neuro-inhibitory metabolite Mustafa Ozcam, Lynch Lab, UCSF - Gut Microbial Lysophospholipids Relate	8:30 - 10:30	POSTER SESSION & COCKTAILS, NEW BRIGHTON & LA SELVA ROOMS
		10:30 - 1:00	RETREAT PARTY & GAMES, MANRESA ROOM
	to Oral Immunotherapy Responsiveness in Children with Peanut Allergy		WEDNESDAY, MARCH 15
	Archana Venkataraman, Ingraham Lab, UCSF - Gut epithelial-nerve circuit drives pain differently in males and females	8:00 - 9:00	BREAKFAST, SUNSET RESTAURANT
	Carla Bueno Silva, Bayrer Lab, UCSF - Intestinal LRH-1 and the modulation of Bile Acids metabolism	Session 7	BETA CELLS
		9:00 - 10:00	SESSION CHAIRS: ALLISON XU & STEPHEN GITELMAN
	Ritwik Datta, Atabai Lab, UCSF - Integrin-mediated regulation of diet-derived lipid droplets in intestinal epithelial cells		Shabrina Amirruddin, Sneddon Lab, UCSF - Vascular niche enhances engraftment and function of stem cell-derived engineered islets
10:50 - 11:20	GROUP PHOTO, FOUNTAIN & PERGOLA		Yaohuan Zhang, Ku Lab, UCSF - The role of CLIC-like Chloride Channel (Clcc1) in diabetes and beta cell function
Session 5	LIPIDS & ADIPOCYTES		Ryan Hart, Huising Lab, UC DAVIS - Inhibitory GPCR activation prevents
11:30 - 12:45	SESSION CHAIRS: ISHA JAIN & DAVID MOORE		exocytosis by reorganizing filamentous actin in primary beta cells
	Alyssa Mathiowetz, Olzmann Lab, UC BERKELEY - Hepatocellular determinants of lipid storage and secretion	10:00 - 10:15	BREAK
	Hai Nguyen, Ahituv Lab, UCSF - Adipose modulation transplantation (AMT) suppresses tumor growth providing a novel cancer therapy	Session 8	STRESS RESPONSES IN AGING & METABOLISM
		10:15 – 11:30	SESSION CHAIRS: ANA ARRUDA & MARK ANDERSON
	Manish Kumar Sharma, Wang Lab, UCSF - Role of ADAR in adipocyte		Yao Wang, Bhushan Lab, UCSF - Restoration of immune surveillance by inhibiting osteoprotegerin in senescence-related diseases
	Radha Singh, Feldman Lab, UCSF - Identifying pathways connecting systemic signals to the regulation of adipocyte stem cell activity		Frances Lin, Sul Lab, UC BERKELEY - Aging-dependent regulatory cells emerge in subcutaneous fat to inhibit adipogenesis
	Gunes Parlakgul, Arruda Lab, UC BERKELEY - Impact of fasting and hepatic zonation on liver subcellular architecture		Kiyomi Kaneshiro, Kapahi Lab, BUCK INSTITUTE - Glycation lowering compounds blunt ghrelin signaling to reduce food intake and improve insulin sensitivity and extend lifespan
12:45 - 2:00	LUNCH, SUNSET RESTAURANT		
Session 6	THE GENOME IN METABOLISM & DEVELOPMENT	11:30 - 12:00	Ayush Midha, Jain Lab, UCSF - Organ-Specific Fuel Rewiring in the
2:00 - 3:15	SESSION CHAIRS: SHYLAJA SRINIVASAN & MARK HUISING		Adaptation to Hypoxia
	Neel Singhal, UCSF - Of Mice and Human (and Squirrel): Probing genomes for metabolic resilience		Luka Suzuki, Papa Lab, UCSF - Obesity-induced diabetes through a maladaptive UPR
	Krishna Choudhary, McManus Lab, UCSF - Genome scale optical CRISPR screens		AWARDS & CONCLUDING REMARKS
	Updip Kahlon, Aydogan Lab, UCSF - A mitochondrial oxidant acts as a metabolic switch at the onset of morphogenesis		
	Federica Liccardo, Irannejad Lab, UCSF - Deconvolution of G protein coupled receptors compartmentalized signaling using spatially restricted small		

molecules