

2nd Annual UC Berkeley/UCSF

METABOLIC BIOLOGY GRADUATE PROGRAM RETREAT

Sept 11, 2023 · Brazilian Room · Berkeley, CA



8:45 am - 9:25 am	Arrival & Breakfast	
9:25 am - 9:30 am	Introduction/Housekeeping	
9:30 am - 10:30 am	Presentation Session 1	
Chairs: Veerle Rottiers & Suneil Koliwad	Samantha Lewis, UC Berkeley (Lewis Lab)	The mitochondrial central dogma in health and disease
	Sophia Hakam, UC Berkeley (Arruda Lab)	Regulation of hepatic tubulin code in metabolic diseases
	Hanlin Zhang, UC Berkeley (Dillin Lab)	The extracellular matrix defines mitochondrial homeostasis
	Neil Yang, UC Berkeley (Krauss Lab)	TOMM40: Bridging Mitochondria to Lipid Metabolism
10:30 am - 11:00 am	Coffee Break	
11:00 am - 12:00 pm	Presentation Session 2	
Chairs: Rachel Brem & Wally Wang	Nick Holloway, UC Berkeley (Sul Lab)	Fasting, Feeding, and Chromatin Remodeling for de novo Lipogenesis
	Joe Hendricks, UC Berkeley (Olzmann Lab)	Therapeutic targeting of lipid quality control and ferroptosis in cancer
	Yuchen He, UC Berkeley (Stahl Lab)	A non-canonical β -adrenergic pathway regulates beige adipocyte thermogenesis via focal adhesion kinase dependent tension sensing
	Jinse Kim, UC Berkeley (Moore Lab)	PPARalpha Regulates Hepatocyte Translation
12:00 pm - 1:30 pm	Lunch & Poster Session	
1:30 pm - 2:30 pm	Presentation Session 3	
Chairs: Marisa Medina & Andrew Dillin	Melissa Boldridge, UC Berkeley (Naar Lab)	My Heart Will Go On: Therapeutic Targeting of miR-128-3p in Heart Failure

	Susan Zhang, UCSF (Vaisse Lab)	Transcriptome Analysis of Melanocortin System Neurons in the Hypothalamus
	Andrew Folick, UCSF (Koliwad Lab)	Multi-modal characterization of the heterogeneity of hypothalamic microglia during diet-induced obesity
	Tomas Bachor, UCSF (Xu Lab)	New Player in Feeding Regulation
2:30 pm - 3:00 pm	Coffee Break	
3:00 pm - 4:00 pm	Presentation Session 4	
Chairs: Emily Goldberg & Joni Nikkanen	Megan Kober, UC Berkeley (Titov Lab)	Fructose-2,6-Bisphosphate: A Key Regulator in Balancing Fermentation & Respiration
	Ikjun Lee, UC Berkeley (Kang Lab)	A novel anti-inflammatory factor promoting insulin sensitivity
	Yao Zhang, UCSF (Ku Lab)	The role of CLIC-like Chloride Channel (Clcc1) in diabetes and beta cell function and development
	Eliza Zhang, UC Berkeley (Medina Lab)	Investigating mechanisms of microRNA192 upregulation of Glp1r
4:00 pm - 5:00 pm	Reception & Poster Session	

Poster Presentations

Presenters	Poster Title
Abbey Blake, UCSF (Vaisse Lab)	CRISPR-mediated Transcription Modulation in Specific Body-Weight Regulating Neurons
Abel Duarte & Kaylee Christensen, UC Berkeley (Brem Lab)	Investigating the role of respiration in the unique stress resistance of the yeast <i>Kluyveromyces marxianus</i>
Alicja Bednarska, UCSF (Vaisse Lab)	Characterization of a new mouse model expressing the Dre recombinase under the control of the <i>Mc4r</i> locus
Alyssa Mathiowetz, UC Berkeley (Olzmann Lab)	Hepatocellular determinants of lipid storage and secretion
Amandine Rapp, UC Berkeley (Naar Lab)	Elucidating the SREBP/Transketolase lipid homeostasis regulatory circuit
Anna Pi, UCSF (Goldberg Lab)	Tools to study the adipocyte secretome in vivo
Ariel Tsay, UC Berkeley (Wang Lab)	Regulation of Hepatic Lipid Metabolism by Transcriptional Coregulator <i>Gatad2a</i>
Byung Chul Jung, UC Berkeley (Kang Lab)	TET3 is a critical epigenetic regulator of white adipose development and diet-induced remodeling
Casadora Boone, UC Berkeley (Lewis Lab)	Impact of lipotoxicity on mitochondrial morphology and mtDNA maintenance
Dongjoo You, UC Berkeley (Kang Lab)	JMJD8 is a novel molecular nexus between adipocyte intrinsic inflammation and insulin resistance
Gunes Parlakgul, UC Berkeley (Arruda Lab)	Spatial mapping of endoplasmic reticulum architecture in fasting and obesity
Jiamin Zhou & Cansu Dogan, UC Berkeley (Arruda Lab)	The role of store operated calcium entry on adipocyte metabolism
Kaitlyn Vitangcol, UC Berkeley (Stahl Lab)	Interrogation of the adipocyte-macrophage axis in the development of insulin resistance derived from hiPSC
Sophia Hakam, UC Berkeley (Arruda Lab)	Regulation of hepatic tubulin glutamylation by nutritional state
Viana Pham, UCSF (Xu Lab)	Aging of tanycytes abolishes the dynamic regulation of blood-brain barrier permeability in the hypothalamus
Xinyi Yang, UC Berkeley (Titov Lab)	Understanding the role of allostery in glycolytic ATP homeostasis
Yeong Rim Lee, UC Berkeley (Wang Lab)	The Role of <i>Fbxo31</i> in the Regulation of Hepatic Glucose Metabolism