



FIRST UC BERKELEY/UCSF METABOLIC BIOLOGY GRADUATE PROGRAM RETREAT
Monday, October 17, 2022
The Golden Gate Club at the Presidio in San Francisco, CA

9:00 am - 9:55 am	Arrival & Breakfast	
9:55 am – 10:00 am	Introduction/Housekeeping	
10:00 am – 11:00 am	Session 1, Ventana Room	
Chairs: Ana Arruda & Greg Ku	Danielle Yi, UCB (Sul Lab)	MICT1, a new microprotein for thermogenesis
	Garrett Dempsey, UCB (Stahl Lab)	Uncovering the role of type II myosins in regulating beige adipocyte thermogenesis
	Dongjoo You, UCB (Kang Lab)	JMJD8 is a novel molecular nexus between adipocyte intrinsic inflammation and insulin resistance
	Lulu Li, UCB (Koliwad Lab)	The Role of Myeloid IRE1alpha In Atherosclerosis
11:00 am - 11:30 am	Coffee Break, Cypress Room/Courtyard	
11:30 am - 12:30 pm	Session 2 , Ventana Room	
Chairs: Sona Kang & Suneil Koliwad	Melissa Roberts, UCB (Olzmann Lab)	Parallel CRISPR-Cas9 screens reveal mechanisms of PLIN2 and lipid droplet regulation
	Abbey Diener, UCSF (Vaisse Lab)	CRISPRi and CRISPRa modulation of transcription in select body-weight regulating neurons
	Viana Pham, UCB (Xu Lab)	Hypothalamic aging and metabolic impairment
	Chi Zhu, UCB (Naar Lab)	An intranasal ASO therapeutic targeting SARS-CoV-2
12:30 pm - 2:30 pm	Lunch (Cypress Room) & Poster Session (Hawthorne Room)	
2:30 pm - 3:30 pm	Session 3, Ventana Room	
Chairs: Allison Xu & Denis Titov	Jinse Kim, UCB (Moore Lab)	PPARalpha regulates hepatocyte translation
	Hong Sik Yoo, UCB (Napoli Lab)	Glucocorticoid receptors repress CYP26A1 transcription

	Joni Nikkanen, UCSF (Ingraham Lab)	A Sex-Dependent Evolutionary Trade-Off Drives Fatty Liver in Male Mice
	Maggie Chang, UCB (Wang Lab)	The Role of Sphingolipid Mediated Signaling in Chronic Glucocorticoid Exposure-Induced Metabolic Disorders
3:30 pm – 4:00 pm	Coffee Break & Group Photo, Cypress Room/Courtyard	
4:00 pm – 5:00 pm	Session 4, Ventana Room	
Chairs: Holly Ingraham & Wally Wang	Alex Ekvik, UCB (Titov Lab)	ATPGobble: Use of F1 ATPase to manipulate ATP/ADP ratio in vivo
	Casadora Boone, UCB (Lewis Lab)	Is mitochondrial genome release an inflammatory trigger during lipotoxic damage of pancreatic beta cells?
	Yaohuan Zhang, UCB (Ku Lab)	Mitochondria proximity to plasma membrane regulates insulin secretion efficiency in beta cells
	Gunes Parlakgul, UCB (Arruda Lab)	Understanding the role of endoplasmic reticulum architecture in metabolic regulation
5:00 pm – 7:00 pm	Reception, Courtyard	

POSTER PRESENTERS

[Tomas Bachor \(Xu Lab\)](#)

[Alec Bizieff \(Hellerstein Lab\)](#)

[Mangyu Choe \(Titov Lab\)](#)

[Amanda Gunawan & Irene Liparulo \(Stahl Lab\)](#)

[Priyanka Joshi \(Titov Lab\)](#)

[Byung Chul Jung \(Kang Lab\)](#)

[Megan Kober \(Titov Lab\)](#)

[William Krause \(Ingraham Lab\)](#)

[Amandine Rapp \(Rottiers Lab\)](#)

[Annie Yue \(Vaisse Lab\)](#)

[Susan Zhang \(Vaisse Lab\)](#)

Identification of AgRP Cells in the Murine Hindbrain that Drive Feeding

Proteome Analysis of Various Stages of Induced Muscle Regeneration Shows Contralateral Limb Reflects Similar Kinetic Changes as “Maturing” Myocytes

Leveraging genetic tool to manipulate mitochondrial physiology

Coenzyme Q regulates UCP1 expression and thermogenesis through the integrated stress responses

Uncovering mechanisms of lifespan extension by calorie restriction

AIFM2 is required for high-intensity aerobic exercise by promoting glucose utilization

Predicting the Allosteric Regulation of Fructose-2,6-Bisphosphate Synthesis: An Application of Monod-Wyman-Changeux in Cell Metabolism

Estrogen-sensitive MC4R neurons in the ventromedial hypothalamic nucleus drive sex differences in physical activity

Elucidating the role of Transketolase in lipid homeostasis

Dynamic localization of MC4R at the primary cilium

Transcriptomic Analysis of MC4R Neurons in the Paraventricular Nucleus of the Hypothalamus