

2nd Annual UC Berkeley/UCSF

METABOLIC BIOLOGY GRADUATE PROGRAM RETREAT

Sept 11, 2023 · Brazilian Room · Berkeley, CA



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| 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 |

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| | 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 allosterity in glycolytic ATP homeostasis |
| Yeong Rim Lee, UC Berkeley (Wang Lab) | The Role of <i>Fbxo31</i> in the Regulation of Hepatic Glucose Metabolism |