



MONDAY, MARCH 18

11:45 -12:45

REGISTRATION (LOBBY), LUNCH IN SUNSET ROOM

12:55

GENERAL SESSIONS, SANTA CRUZ ROOM

SESSION 1

"I'LL HAVE WHAT SHE'S HAVING": MOVING TOWARDS PRECISION NUTRITION

1:00 - 2:15

SESSION CHAIRS: DYMUNA GALLAGHER & KEVIN KLATT

Priscilla Tjandra, Collins Lab, UCSF - Ketogenic diet does not prevent cartilage damage in aged mice

Edwin Ortega, Turnbaugh Lab, UCSF - The gut microbiome across the murine lifespan: impact of diet and its association with inflammation, lipids, liver cancer, and lifespan

Shenliang Yu, Knight Lab, UCSF - Profiling cellular mechanisms of intestinal nutrient sensing by activity-based CRISPRi screening

Guangyan Wu, Liu Lab, UCSF - Opposing GPCR signaling programs the protein intake setpoint in *Drosophila*

Tomohiro Nishino, Srivastava Lab, UCSF GLADSTONE - Single cell multimodal analyses reveal epigenomic and transcriptomic basis for birth defects in maternal diabetes

2:15 - 2:45

BREAK

SESSION 2

BETA BREAKERS: BETA CELLS FROM DEVELOPMENT TO DISEASE

2:45 - 4:00

SESSION CHAIRS: MARISA MEDINA & SAM KLEIN

Rebecca Lee, Ku Lab, UCSF - A shRNA screen in primary human beta cells identifies the serotonin 1F receptor as a negative regulator of survival during transplant

Mohammad Pourhosseinzadeh, Huisling Lab, UC DAVIS - Investigation of the mechanism(s) of beta and delta cell coordination under high glucose

Xinkai Yao, Sneddon Lab, UCSF - Elucidating pancreatic endocrine cell fate determination using multi-omic approaches

Peng Xiao, Tang Lab, UCSF - Molecular mechanisms of parathyroid protection of transplanted islets

Ishan Goswami, Healy Lab, UC BERKELEY - Leveraging population of model *in silico* approach for robust islet tissue development in microphysiological systems

4:00 - 4:30

BREAK

SESSION 3

IT IS JUST CHOPPED LIVER: EMERGING TOPICS IN HEPATIC METABOLISM

4:30 - 5:30

SESSION CHAIRS: DIANA KUO & MARK HUISING

Emad Heidary Arash, Willenbring Lab, UCSF - High-resolution imaging establishes new functions of TM6SF2 in hepatic lipid metabolism

Sungwoo Choi, Moore Lab, UC BERKELEY - The bile acid receptor FXR regulates liver translation

Emily Meymand, Olzmann Lab, UC BERKELEY - Mechanisms of neutral lipid flux in hepatocytes: from screens to physiology

Sudipta Bar, Kapahi Lab, BUCK INSTITUTE - Glycogen breakdown: a neuroprotective mechanism via glycolysis inhibition and pentose phosphate pathway activation

6:30 - 7:30	DINNER, SUNSET RESTAURANT
7:30 - 9:30	POSTER SESSION & COCKTAILS, NEW BRIGHTON & LA SELVA ROOMS CHAired BY AUDREY PARENT, ZOE QUANDT & MARTIN VALDEARCOS
9:30 - 11:00	SOCIAL HOUR & GAMES, SANTA CRUZ ROOM

TUESDAY, MARCH 19

8:30 - 9:30	BREAKFAST, SUNSET RESTAURANT
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SESSION 4 IT'S ALL IN YOUR HEAD: THE GENETICS AND BIOLOGY OF WEIGHT CONTROL

9:30 - 10:45 SESSION CHAIRS: DIANA ALBA & BRIAN BLACK

Candace Chan, Ahituv Lab, UCSF - Single-cell multiomic characterization of human and mouse hypothalamus identifies obesity-associated regulatory elements

Emily McGrath, Valdearcos Lab, UCSF - Investigating the impact of dietary components on microglial heterogeneity and metabolic consequences

Viana Pham, Xu Lab, UCSF - Aging of tanycytes and dysregulation of hypothalamic blood-brain barrier permeability

Abbey Blake, Vaisse Lab, UCSF - Evaluating the role of obesity genes in specific neuronal in vivo by CRISPRi

Thao Phan, Reiter Lab, UCSF - Understanding obesity in Alström syndrome: molecular insights from the ALMS1 protein

10:45 - 11:30	GROUP PHOTO, FOUNTAIN & PERGOLA
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SESSION 5 YES, FAT CELLS CAN DO THAT TOO: ADIPOSE TISSUE HETEROGENEITY AND FUNCTION

11:30 - 12:30 SESSION CHAIRS: VEERLE ROTTIERS & HOLGER WILLENBRING

Jennie Dinh, Sul Lab, UC BERKELEY - The microprotein MICT1 promotes thermogenesis by potentiating PKA activity

Irene Liparulo, Stahl Lab, UC BERKELEY - Uncovering Coenzyme Q deficiency dynamics in brown adipose tissue

Michelangelo Gonzatti, Goldberg Lab, UCSF - iNKT cells in adipose tissue aging

Moon Kyung Choi, Koliwad Lab, UCSF - Subcutaneous adipose tissue fibrosis in treated HIV

12:30 - 2:00	LUNCH, SUNSET RESTAURANT
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SESSION 6 LET'S PLAY THAT CD AGAIN!: THE IMMUNOLOGY OF DIABETES AND METABOLIC DISEASE

2:00 - 3:15 SESSION CHAIRS: KELSEY COLLINS & DALE ABEL

Simon Chu, Gardner Lab, UCSF - Deciphering the role of aire expressing cells: implications for immune tolerance and diabetes

Zoe Quandt, Faculty, UCSF - Immune checkpoint diabetes: a new approach to autoimmune diabetes

Irina Proekt, Anderson Lab, UCSF - Loss of thymic tolerance to Perilipin1 is associated with adipose autoimmunity in the Aire-deficient mice

Kaustav Das Gupta, Bapat Lab, UCSF - Development of a novel regulatory T (Treg) cellular therapy to enable site-specific, delivery framework for tissue modification

Roberto Castro Gutierrez, Tang Lab, UCSF - Engineering T regulatory cells to develop a targeted immunotherapy for Type 1 Diabetes

3:15 - 6:30	RECREATIONAL TIME
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6:30 - 7:30	DINNER, SUNSET RESTAURANT
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7:30 - 8:30 Keynote Address, SANTA CRUZ ROOM

Introduction by Suneil Koliwad, Dr. E. Dale Abel, UCLA

"Mitochondrial Dynamics and Cardiometabolic Disease"

8:30 - 10:30	POSTER SESSION & COCKTAILS, NEW BRIGHTON & LA SELVA ROOMS
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10:30 - 1:00	ROARING 20's PARTY & GAMES, SEASCAPE ROOM
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WEDNESDAY, MARCH 20

8:30 - 9:30	BREAKFAST, SUNSET RESTAURANT
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SESSION 7 FOLLOW THE ARROW: NEW TOOLS AND TECHNIQUES TO EXPLORE BASIC BIOLOGY

9:30 - 10:45 SESSION CHAIRS: ZOE QUANDT & JAMES BAYRER

Sudipta Ashe, Parent Lab, UCSF - Mitochondrial iron-sulfur cluster transfer protein BOLA3 is necessary for homeostasis of Glutathione-Iron axis

Galih Haribowo, Jain Lab, UCSF GLADSTONE - Mechanisms of oxygen toxicity: the problems with Fe-S clusters

Matt Kukurugya, Titov Lab, UC BERKELEY - Why do rapidly proliferating cells exhibit the Warburg effect?

Natalia Moskal, McManus Lab, UCSF - Monitoring and optimizing cell therapies using exosomes

Grant Goldman, Ntranos Lab, UCSF - Advancing variant effect prediction with protein language models

10:45 - 11:00	AWARDS & CONCLUDING REMARKS
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11:00 - 12:00	CAREER-FOCUSED PANEL & DISCUSSION
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