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: DYMPNA 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, Huising 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**
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**
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**

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**
6:30 - 7:30	**DINNER, SUNSET RESTAURANT**
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**
10:30 - 1:00	**ROARING 20's PARTY & GAMES, SEASCAPE ROOM**

WEDNESDAY, MARCH 20

8:30 - 9:30	**BREAKFAST, SUNSET RESTAURANT**
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**
11:00 – 12:00	**CAREER-FOCUSED PANEL & DISCUSSION**