

## WEDNESDAY SEPTEMBER 12

11:45-12:45  
12:45 REGISTRATION- LUNCH IN SUNSET RESTAURANT  
MOVE TO SANTA CRUZ ROOM

12:50 INTRODUCTION  
SESSION 1 **The Exciting First Session**  
1:00 – 2:30 CHAIRED BY SUNIEL KOLIWAD & ANDREAS STAHL

**Esther Paulo** Wang Lab, UCSF CVRI – Defective mitochondria in brown adipocytes promote metabolic benefits

**Thomas Hennings** Ku Lab, UCSF Diabetes Center – *In vivo deletion of beta cell Drp1 impairs insulin secretion without affecting islet oxygen consumption*

**William Krause** Ingraham Lab, UCSF – *Coordinating female metabolism and reproduction: estradiol drives Mc4r expression in the ventromedial hypothalamus*

**Martin Vadearcos-Contreras** UCSF Diabetes Center – *The role of hypothalamic microglia in the regulation of energy and glucose homeostasis*

2:30 - 2:45 BREAK

SESSION 2 **New Pathways to Therapy<sup>1</sup>**  
2:45 - 4:15 CHAIRED BY MARK HUISING & AUDREY PARENT

**Aeid Igarria** Papa Lab, UCSF – *Targeting T1D with new class of NLRP3 inflammasome inhibitors*

**Jordan Bisanz** Turnbaugh Lab, UCSF – *The effects of very low-calorie diet on gut microbiome composition and function*

**Chester Chamberlain** German Lab, UCSF Diabetes Center – *Pathways to synthetic lethal combinations and new drug therapies for pancreatic islet cell tumors*

**Jessica Cortez** Marson Lab, UCSF Diabetes Center – *CRISPR screen in regulatory T cells identifies ubiquitin-modifying enzyme Usp22 as key regulator of Foxp3 expression*

**Isha Jain** Sandler Fellow, Physiology, UCSF – *Turning the oxygen dial as a therapy: Hypoxia as a treatment for mitochondrial dysfunction*

4:15 – 4:30 BREAK

SESSION 3 **Physiological Determinants in Diabetes & Obesity**  
4:30 – 6:00 CHAIRED BY MATTHIAS HEBROK & MARTIN MYERS

**Carlos Henrique** Kajimura Lab, UCSF Diabetes Center – *Phospholipid transfer protein (PLTP): the new batokine in control lipid and glucose homeostasis*

**Marta Vuckovic** Napoli Lab, UC Berkeley – *Retinol metabolism in brown adipose contributes to optimal lipid homeostasis during fasting and feeding*

**Kevin Corbit** Weiss Lab, UCSF – *Adipocyte JAK2 mediates hepatic insulin sensitivity and hepatocellular carcinoma*

**Jessica Huang** Huising Lab, UC Davis – *Role of somatostatin in beta cell functional maturity*

**Lisa Beutler** Knight Lab, UCSF – *Understanding the nutritional regulation of feeding circuits*

6:00 – 7:00 DINNER IN SUNSET RESTAURANT

7:00 – 8:00 **Keynote Address<sup>1</sup>** Introduction by Andreas Stahl  
**Anders Näär** UC Berkeley

8:00 – 9:30 **Poster Session & Cocktails<sup>1</sup>** New Brighton & La Silva Rooms  
Chaired by Frederic Van Gool

9:30 - 11:00 **Social Hour & Games** Santa Cruz Room

## THURSDAY SEPTEMBER 13

8:00 – 9:00 BREAKFAST – SUNSET RESTAURANT

SESSION 4 **Developmental Biology and More**  
9:00 -10:30 CHAIRED BY ALLISON XU & WALLY WANG

**Annalise Vonderembse** Merrill Lab, UC Davis – *A cold look at DDT: How developmental exposure to the pesticide may have obesogenic roots in the nervous system*

**Ronan Russell** Hebrok Lab, UCSF Diabetes Center – *Pancreatic islet-cell development in humans - a primary role for MAFB?*

**Truc Nguyen** Olzmann Lab, UC Berkeley – *Mechanisms and functions of lipid droplet-mitochondria tethering*

**Daniel Wong** Sneddon Lab, UCSF Diabetes Center – *A novel endocrine progenitor population as revealed by single-cell RNA- sequencing*

**Ajit Shah** Bhushan Lab, UCSF Diabetes Center – *Targeted elimination of senescent beta cells prevents Type 1 Diabetes*

10:35 -11:00 GROUP PHOTO

SESSION 5 **Harnessing Human Genetics in Metabolic Diseases**  
11:00 -12:30 CHAIRED BY MIKE GERMAN & NADAV AHITUV

**Yuanyuan Qin** Krauss Lab, CHORI – *TMEM55B regulates LDLR lysosomal decay through PI(4,5)P2*

**Jeremy Warshauer** Anderson Lab – *A novel mendelian model of autoimmune diabetes*

**Fanny Comblain** Vaisse Lab, UCSF Diabetes Center – *Monoallelic expression as a contributor to phenotypic variability in obesity*

**Bryan Gonzalez** Leibel Lab, Columbia University – *HNF1A deficiency (MODY3) impairs  $\beta$ -cell granule maturation and function*

**Dimitre Simeonov** Marson Lab, UCSF Diabetes Center – *Decoding IL2RA regulatory circuits in autoimmune diabetes*

12:30 - 1:30 LUNCH – SUNSET RESTAURANT

## SESSION 6

1:30 – 3:00

### New Pathways to Therapy<sup>2</sup>

CHAired BY RUDOLF LEIBEL & ANDERS NAAR

**Casey Ward** Tang Lab, UCSF – *Reversal of diabetes and preservation of pancreatic islet grafts in the extrahepatic space with novel parathyroid gland co-transplantation*

**Gabriel Eades** UCSF Diabetes Center – *Targeting recalcitrant tumor persister cells*

**Leonardo Ferreira** Tang Lab, UCSF - *Cellules-san-frontières: engineered regulatory T cell therapies for type 1 diabetes*

**Ching Fang Chang** Stahl Lab, UC Berkeley – *CoQ deficiency in brown adipose tissues leads to mitochondrial unfolded protein responses and thermogenic dysfunction*

**Audrey Parent** UCSF Diabetes Center - *Immunoengineering of stem cell-derived insulin-producing cells for cell therapy and disease modeling*

3:00 - 6:30

AFTERNOON AT SANTA CRUZ BEACH BOARDWALK

6:30 - 7:30

DINNER IN SUNSET RESTAURANT

7:30 – 8:30

**Keynote Address<sup>2</sup>** Introduction by Mathias Hebrok

**Jens C. Brüning**, Max Planck Institute

8:30 – 10:00

**Poster Session & Cocktails<sup>2</sup>** New Brighton & La Silva Rooms  
Chaired by Frederic Van Gool

10:00 – 1:00

**Retreat Party** Seascape Room

## FRIDAY SEPTEMBER 14

8:00

BREAKFAST IN SUNSET RESTAURANT

## SESSION 7

9:00 - 10:30

### Saving the Best for Last

CHAired BY BRÜNING & JULIE SNEDDON

**Ashley Frakes** Dillan Lab, UC Berkeley – *Glia regulate ER stress resistance and longevity*

**Eirini Vagena** Xu Lab, UCSF Diabetes Center – *Role of ASB4 in regulation of energy balance and glucose homeostasis*

**Ritwik Datta** Atabai Lab, UCSF – *Mfge8 promotes insulin resistance through  $\alpha\beta 5$  integrin*

**Kotdaji Ha** Delling Lab, UCSF – *Electrical properties of primary cilia signaling: Implication into islet function*

**Fred Van Gool** UCSF Diabetes Center – *A Foxp3 Mutation drives Th2 effector function in regulatory T cells*

10:30 – 12:00

STUDENT & FACULTY NETWORKING IN FOCUS GROUPS

*Locations will be assigned prior*

**Venue 1 - Beta Cell development and function:** Hebrok, Huising, Bhusan, Ku, Sneddon

**Venue 2 - Adipose tissue and Metabolism:** Koliwad, Raffai, Napoli, Stahl, Wang, Feldman

**Venue 3 - Central regulation of energy Homeostasis:** Leibel, Myers, Brüning, Ku, Ryan, Vaisse

**Venue 4 - Immunology and type I Diabetes:** Marson, Tang, Van Gool, Parent

**Venue 5 - Genomics and Technology:** Ahituv, McManus, Krauss, Smith, Naar, Gerencser

12:00

LUNCH IN SUNSET RESTAURANT



**DIABETES CENTER** DERC  
NORC

**2018 RETREAT** SEP 12-14  
ENDLESS SUMMER