

## **MONDAY NOVEMBER 18**

**11:30** REGISTRATION-  
**12:00 - 12:45** LUNCH – SUNSET RESTAURANT  
**12:45** MOVE TO SANTA CRUZ ROOM

### **SESSION 1**

1:00 – 2:30

#### **Cellular Energetics and Stress**

CHAIRS: SUNEIL KOLIWAD & MICHELLE LA MERRILL

**Nick Yiv Ku Lab, UCSF** – In vivo screen for primary human beta cell proliferation and survival

**Sneha Damal Villivalam Kang Lab, UCB** – *The role of skeletal muscle DNMT3A in endurance exercise*

**Ryo Higuchi-Sanabrai Dillin Lab, UCB** – *Promoting ER stress resistance and longevity in the absence of the UPR*

**Ajit Shah Bhushan Lab, UCSF** – *BET proteins are required for transcriptional activation of the senescent islet cell secretome in type 1 diabetes*

**Kevin Tharp Weaver Lab, UCSF** – *Biophysical signaling induces mitochondrial remodeling and oxidative stress resistance via HSF1*

**2:30 - 2:45**

#### **COFFEE BREAK**

### **SESSION 2**

2:45 - 4:15

#### **All About the Fat**

CHAIRS: KATRIN SVENSSON AND CHRISTOPHER NEWGARD

**Melissa Roberts Olzmann Lab, UCB** – *A genetic strategy to identify lipid droplet protein degradation pathways*

**Liang Li Feldman Lab, UCSF** – *Feeding the Fat Clock*

**Esther Paulo Mirasol Wang Lab, UCSF** – *Proteome turnover fuels thermogenesis in brown adipocytes*

**Garrett Dempsey Stahl Lab, UCB** – *Mechanobiological regulation of beige adipocyte formation and metabolic activity*

**Emily Goldberg New Faculty, UCSF** – *Dysregulation of the adipose-resident immune compartment during aging*

**4:15 – 4:30**

#### **COFFEE BREAK**

### **SESSION 3**

4:30 – 6:00

#### **In Vivo Metabolism & Physiology**

CHAIRS: ERIC VERDIN AND ALLISON XU

**Allison Ho Kowalsky U of Michigan** – *Sestrin2 activates Akt through GATOR2-mTORC2*

**Koike Shinichiro Haj Lab, UC Davis** – Soluble epoxide hydrolase deficiency and pharmacological inhibition improve pancreatic islets function

**Ritwik Datta Atabai Lab, UCSF** – *Self-regulation of insulin receptor signaling through activation of Mfge8-β5 integrin axis*

**Yunshin Jung, Svensson Lab, Stanford** – *A single-cell atlas of non-alcoholic fatty livers uncovers high hepatocyte heterogeneity and a loss of periportal zonation*

**Dennis Titov New Faculty UCB** – *New approaches for studying the role of energy metabolism in physiology and disease*

**6:00 – 7:00**

#### **DINNER IN SUNSET RESTAURANT**

**7:00 – 8:00**

#### **KEYNOTE PRESENTATION Eric Verdin Buck Institute**

*“NAD metabolism and Aging”* (Santa Cruz Room)

Introduction by Suneil Koliwad

**8:00 – 9:30**

#### **Poster Session & Cocktails** New Brighton & La Silva Rooms

Chaired by Audrey Parent and Martin Contreras

**9:30 - 11:00**

#### **Social Hour & Games** Santa Cruz Room

## **TUESDAY NOVEMBER 19**

**8:00 – 9:00**

#### **BREAKFAST – SUNSET RESTAURANT**

### **SESSION 4**

9:00 -10:30

#### **The Functional Development of Metabolic Tissues**

CHAIRS: BRUCE VERCHERE AND GREGORY KU

**David Scheel German Lab, UCSF** – *Patterning of the definitive endoderm in gut development*

**Alex Mawla Huisling Lab, UC Davis** – *Navigating the Depths and Avoiding the Shallows of Pancreatic Islet Cell Transcriptomes*

**Youngjin Kim, Hebrok Lab, UCSF** – *Investigation of the role of GLIS3 on human beta cell development and maturation*

**Sean de La O Sneddon Lab, UCSF** – *A Transcriptional Atlas of the Developing Pancreas at Single-Cell Resolution*

**Joanna Kelley Visiting Scientist, McManus Lab, Washington State** – *Grizzly bears as an unexpected evolutionary model of insulin resistance*

**10:30 -11:00**

#### **GROUP PHOTO**

### **SESSION 5**

11:00 -12:30

#### **The brain in metabolic control**

CHAIRS: MIKE GERMAN AND KAREN RYAN

**Viana Pham Xu Lab, UCSF** – *Metabolic Dysregulation in Advanced Aging*

**Min Hyun Kim, U Michigan** – *Hypothalamic Slug promotes leptin resistance and obesity*

**Adelaide Bernard, Vaisse Lab, UCSF** – *MRAP2 regulates energy homeostasis by promoting primary cilia localization of MC4R*

**Greg Timblin Saijo Lab, UCB** – *Hydroxyestrogens alter macrophage mitochondrial function to restrict inflammatory responses*

**Qili Liu New Faculty UCSF** – *Multidimensional hunger networks and nutritional balance*

**12:30 - 1:30**

#### **LUNCH – SUNSET RESTAURANT**

**1:30-5:00**

#### **NETWORKING, SPORTS AND SIGHT SEEING**

## SESSION 6

5:00 – 6:30

### Big Data: from Single Cells to Metabolism and Beyond

CHAIRS: MARTIN MYERS AND ANDREAS STAHL

**Homa Majd Fattahi Lab, UCSF** – Modeling and treating fatty acid induced enteric neuropathies using human pluripotent stem cells

**Cate Schneider Hellerstein Lab, UCB** – Interaction of diet with the metabolic flux signatures of the unfolded protein response

**Wei Wei Long Lab, Stanford** - Chemogenetic In Vivo Mapping of Endocrine Circuits Regulating Tissue Metabolism

**Jiehan Li Ingelsson Lab, Stanford**- CRISPR meets single-cell RNA-sequencing in adipocytes

**Vasilis Ntranos New Faculty UCSF Diabetes Center** - Information at the interface between Biology and Computation

6:30 - 8:00

**DINNER IN SUNSET RESTAURANT**

8:00 - 9:30

**Poster Session & Cocktails** New Brighton & La Silva Rooms  
Chaired by Audrey Parent and Martin Contreras

9:00

**Retreat Party** Seascape Room

## **WEDNESDAY NOVEMBER 20**

8:00 – 9:00

**BREAKFAST – SUNSET RESTAURANT**

## SESSION 7

9:00 - 10:15

### Hosts, Immunity and Metabolic Disease

CHAIRS: MATTHIAS HEBROK AND JANELLE NOBLE

**Shen Dong Bluestone Lab, UCSF** –A Phase I Trial of CD4+CD127lo/-CD25+ Polyclonal Treg Adoptive Immunotherapy with Interleukin-2 for the Treatment of Type 1 Diabetes

**Zoe Quandt Anderson Lab, UCSF** – Immune Checkpoint Inhibitor Diabetes Mellitus: A Novel Form of Autoimmune Diabetes

**Diana Alba Koliwad Lab, UCSF**–Adipose tissue function vs. fibrosis in health, obesity, and HIV

**James Bayrer New Faculty UCSF** –Regulating the hormone-producing gut epithelium

10:15 – 10:30

**CHECK-OUT BREAK**

10:30 - 12:00PM

### **STUDENT & FACULTY NETWORKING IN FOCUS GROUPS**

*(Locations will be assigned prior)*

**Venue 1** – Probing the Development and Dysfunction of Beta Cells:  
Hebrok, Verchere, Parent, German, Huising, Bhushan, Ku, Grodsky, Noble

**Venue 2** – Adipocyte Biology and Adipose tissue Function: Koliwad, Raffai, Napoli, Stahl, Feldman, McManus, Kelley, Long

**Venue 3** - Central Regulation of Energy Homeostasis: Valdearcos, Myers, Xu, Ryan, Vaisse, Liu, La Merrill

**Venue 4** – New Tools to Study Systemic Metabolism: Svensson, Titov, Goldberg, Bayrer, Atabai, Ntranos

12:00PM **LUNCH – SUNSET RESTAURANT**

