MONDAY NOVEMBER 18			
11:30	REGISTRATION-	6:00 – 7:00	DINNER IN SUNSET RESTAURANT
12:00 - 12:45 12:45	LUNCH – SUNSET RESTAURANT MOVE TO SANTA CRUZ ROOM	7:00 – 8:00	KEYNOTE PRESENTATION Eric Verdin Buck Institute "NAD metabolism and Aging" (Santa Cruz Room) Introduction by Suneil Koliwad
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	8:00 – 9:30	Poster Session & Cocktails New Brighton & La Silva Rooms Chaired by Audrey Parent and Martin Contreras
	Sneha Damal Villivalam Kang Lab, UCB – The role of skeletal muscle DNMT3A in endurance exercise	9:30 - 11:00	Social Hour & Games Santa Cruz Room
	Ryo Higuchi-Sanabrai Dillin Lab, UCB –Promoting ER stress resistance and longevity in the absence of the UPR	TUESDAY NOVEMBER 19	
	Ajit Shah Bhushan Lab, UCSF – BET proteins are required for transcriptional activation of the senescent islet cell secretome in type 1 diabetes	8:00 - 9:00	BREAKFAST – SUNSET RESTAURANT
	Kevin Tharp Weaver Lab, UCSF – Biophysical signaling induces mitochondrial remodeling and oxidative stress resistance via HSF1	SESSION 4	The Functional Development of Metabolic Tissues CHAIRS: BRUCE VERCHERE AND GREGORY KU
2:30 - 2:45	COFFEE BREAK	9:00 -10:30	David Scheel German Lab, UCSF – Patterning of the definitive
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	10:30 -11:00	endoderm in gut development Alex Mawla Huising 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 GROUP PHOTO
4:15 – 4:30	COFFEE BREAK	SESSION 5	The brain in metabolic control
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-	11:00 -12:30	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
	alcoholic fatty livers uncovers high hepatocyte heterogeneity and a loss of periportal zonation	12:30 - 1:30	LUNCH - SUNSET RESTAURANT
	Dennis Titov New Faculty UCB – New approaches for studying the role of energy metabolism in physiology and disease	1:30-5:00	NETWORKING, SPORTS AND SIGHT SEEING

SESSION 6 Big Data: from Single Cells to Metabolism and Beyond

5:00 - 6:30 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 Hosts, Immunity and Metabolic Disease

9:00 - 10:15

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

