

2022 Kern Lipid Conference

“Therapeutic Aspects of Adipose Tissue Organ Crosstalk”

Monday, August 15, 2022 - Wednesday, August 17, 2022

Manor Vail Lodge, Vail, Colorado

Organizers:

Philipp Scherer, PhD, UT Southwestern Medical Center

James McManaman, PhD, University of Colorado, Denver

John M. Stafford, MD, PhD, Vanderbilt University School of Medicine

Conference Registration

Monday, August 15, 2022

7:15-8:15 am	Conference Check-In and Breakfast <i>Check in is in the Breakfast nook, across from the Mt Powell Breakfast Room. Guest breakfast served daily from 7am-10am.</i>
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Kern Lecturer

8:15 am	Introduction and Presentation of the Kern Lectureship Award Moshe Levi, MD, President, Kern Lipid Conference, Georgetown University – USA
8:25 am	Kern Lecture: “microRNA Regulation Adipose Organ Crosstalk” C. Ronald Kahn, MD, Joslin Diabetes - USA

Session 1: Immunomodulatory Interventions: Adipose Tissue Inflammation with obesity and diabetes:

Session Chair: Philipp Scherer, PhD

Piney Mountain Meeting Room

9:15 am	“Metabolic Activation of the Inflammasome” Vishwa Deep Dixit, DVM, PhD, Yale University - USA
9:45 am	“Metabolic Footprints in Autoimmune T Cells and Macrophages” Cornelia Weyand, MD, Mayo Clinic - USA
10:15 am	Coffee Break
10:30 am	“Obesity Associated Inflammation” Barbara Nikolajczyk, PhD, University of Kentucky - USA
11:00 am	“Innate Immune Control of Adipose Tissue Homeostasis” Lydia Lynch, PhD, Harvard University - USA
11:30 am	“Obesity and COVID-19: role of adipose tissue” Tracey McLaughlin, MD, Stanford University School of Medicine - USA
12:00 pm	“Adipose Immunity in Weight Loss and Cycling” Alyssa Hasty, PhD, Vanderbilt University - USA
12:30 pm	Lunch <i>The Fitz Bar & Creekside Patio, Fitz Bridge</i>
1:30-4:15 pm	Afternoon Break

Session 2: Adipose Organ Cross Talk in Obesity

Session Chair: James McManaman, PhD

Piney Mountain Meeting Room

4:15 pm	"Metabolic heterogeneity of obesity: what's fat got to do with it?" Samuel Klein, MD, Washington University in St. Louis - USA
4:45 pm	"Obesity-associated metabolites and atherosclerosis risk" Debby Koonen, PhD, University of Groningen - Netherlands
5:15 pm	"Drug Discovery, Development, and Clinical Application: A Translational Scientist Tells His Story" Roger Newton, PhD, Espervita Therapeutics - USA
5:45 pm	"Liver and adipose tissue MetAP2 expression regulates systemic metabolism" Christy Gliniak, PhD, UT Southwestern - USA Young Investigator Short Talk
6:00 pm	"Role of Mcrip2 in adipocyte oxidative function" Alexa Wade, Johns Hopkins University - USA Young Investigator Short Talk
6:15 -8:00 pm	Poster Session and Reception <i>Notch and Mt Powell</i>

Tuesday, August 16, 2022

7:00-8:30 am	Breakfast Buffet <i>Mt Powell Breakfast Room</i>
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Session 3: Adipose tissue dysfunction and NASH/NAFLD

Session Chair: John M. Stafford MD, PhD

Piney Mountain Meeting Room

8:00 am	"Short and long-term implications of Covid for diabetes: Hypothesis" Jane Reusch, MD, University of Colorado, Anschutz - USA
8:30 am	"Adipose tissue dysfunction in human lipodystrophies" Abhimanyu Garg, MD, UT Southwestern - USA
9:00 am	"Brown Fat Activity and Fatty Liver Disease" Liangyou Rui, PhD, University of Michigan - USA
9:30 am	Morning Break
10:00 am	"Dissecting the Interconnections Between Brown Adipose Tissue and NAFLD in Mice and Humans" Greg Steinberg, PhD, McMaster University - Canada
10:30 am	"CETP and Sex-Differences in Metabolic Associated Fatty Liver Disease" Sivaprakasam Chinnarasu, PhD, Vanderbilt University Medical Center - USA Young Investigator Short Talk
10:45 am	"Lipogenesis and NAFLD" Jay Horton, MD, UT Southwestern - USA
11:15 am	"Lipids in NASH/Fibrosis - quality, quantity, location, or all?" Saswata Talukdar, PhD, Merck - USA
11:45 pm	Lunch <i>The Fitz Bar & Creekside Patio, Fitz Bridge</i>

1:15 pm	Introduction and Presentation of the Roger Davis Lecturer Robert H. Eckel, MD, University of Colorado Anschutz Medical Campus – USA
1:20 pm	“The Differential Effects of Weight Loss and Regain on Atherosclerosis” Roger Davis Award Lecture: Ada Weinstock, PhD, University of Chicago - USA
1:50 pm	“Recycling in the endosomal compartment and its implications on lipid homeostasis” Ezra Burstein, MD, PhD, UT Southwestern - USA
2:20 pm	“Lrg1 is a Driver of Brown Adipose Tissue Dysfunction in Obesity” Amanda MacCannell, University of Leeds - UK Young Investigator Short Talk
2:35 pm	“Membrane Bound O-Acyltransferase 7 (MBOAT7)-Driven Lysophosphatidylinositol (LPI) Acylation in Adipocytes Contributes to Systemic Glucose Homeostasis” William Massey, Cleveland Clinic - Lerner Research Institute - USA Young Investigator Short Talk
2:50 pm	Afternoon Break

Wednesday, August 17, 2022

7:30 am-9:00 am	Breakfast Buffet <i>Mt Powell Breakfast Room</i>
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Session 4: White/Beige/Brown Adipose Tissue Physiology and Impact on Systemic Lipid Metabolism

Session Chair: Ebru Erbay, MD, PhD

Piney Mountain Meeting Room

8:30 am	Franz Simon Poster Award/Introduction – Recipient To be Announced Moshe Levi, MD, President, Kern Lipid Conference, Georgetown University – USA
8:40 am	“Targeting mitochondria interaction with lipid droplets to affect lipid storage and utilization” Orian Shirihai, MD, PhD, UCLA - USA
9:10 am	“Mesenchymal progenitor cells and adipose tissue remodeling” Patrick Seale, PhD, University of Pennsylvania - USA
9:40 am	“Physiological roles of lipokines derived from thermogenic adipose tissue” Yu-Hua Tseng, PhD, Joslin Diabetes Center - USA
10:10 am	Morning Break

Session 5: White/Beige/Brown Adipose Tissue Physiology and an Industry Perspective on Adipose Dysfunction

Session Chair: Zoltan Arany, MD, PhD

Piney Mountain Meeting Room

10:30 am	“Metabolic Adaptations that Power Adipocyte Thermogenesis” David Guertin, PhD, UMass Worcester - USA
11:00 am	“Industry Roundtable -The Future of Adipose Directed Therapeutics” ***Select from speakers and sponsors
11:30 am	“Adipogenesis and age-related adiposity” Qiong Annabel Wang, PhD, City of Hope - USA
12:00 pm	“Characterizing the adipose secretome” Paul Cohen, MD, PhD, The Rockefeller University - USA
12:25 pm	Lunch <i>The Fitz Bar & Creekside Patio, Fitz Bridge</i>

Session 6: Sex Differences, Adaptive Functions and Organ Crosstalk

Session Chair: Rebecca Haeusler, PhD

Piney Mountain Meeting Room

1:30 pm	<p>“Lipids and Bile Acids and Fibrosis” Moshe Levi, MD, President, Kern Lipid Conference, Georgetown University – USA</p>
2:00 pm	<p>“Common Denominators for Increased COVID-19 Sensitivity with Diabetes, Obesity and Dyslipidemia” Philipp Scherer, PhD, UT Southwestern - USA</p>
2:30 pm	<p>“The X chromosome impacts obesity and statin drug adverse effects” Karen Reue, PhD, UCLA -USA</p>
3:00 pm	<p>Afternoon Break</p>
3:15 pm	<p>“Regulation and Function of Adipogenic Stromal Subpopulations in Adipose Tissue” Rana Gupta, PhD, Duke University School of Medicine - USA</p>
3:45 pm	<p>“Elucidating the role of GIP receptor agonism in the therapeutic efficacy of Tirzepatide” Matthew Coghlan, PhD / Ricardo Samms, PhD, Eli Lilly and Company – USA</p>
4:15 pm	<p>Introduction to David L. Williams Lecture and Award Mary Sorci-Thomas, PhD, Medical College of Wisconsin – USA</p>
4:20 pm	<p>“Apolipoprotein M and the cardiorenal axis in acute inflammation” David L. Williams Lecture: Ali Javaheri MD, PhD, Washington University in St. Louis – USA</p>
4:50 pm	<p>Afternoon Break</p>
6:00 -6:30pm 6:30-8:30pm	<p>Cocktail Reception - Golden Peak Gardens Dinner Golden Peak Gardens <i>(Cocktails and Dinner will be outside, weather permitting. Colorado evenings tend to be cool after sunset, please bring jacket/sweater)</i></p>
8:30-10:00 pm	<p>Music & Dancing – Fitz Bar Adjourn</p>