

2021 Kern Lipid Conference

“Therapeutic Aspects of Adipose Tissue Organ Crosstalk”

Monday, August 23, 2021 - Wednesday, August 25, 2021

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 23, 2021

7:30-9:00 am	Conference Check-In and Breakfast <i>Grand Ballroom Foyer and Registration Desk</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:

8:45 am	“Metabolic Activation of the Inflammasome” Vishwa Deep Dixit, DVM, PhD, Yale University - USA
9:15 am	“Disease-Specific Macrophages and T Cells and Immunometabolism” Cornelia Weyand, MD, Stanford University - USA
9:45 am	Coffee Break
10:00 am	“Obesity Associated Inflammation” Barbara Nikolajczyk, PhD, University of Kentucky - USA
10:30 am	“Innate Immune Control of Adipose Tissue Homeostasis.” Lydia Lynch, PhD, Harvard University - USA
11:00 am	“Title – COVID-19 talk” TBD
11:30 am	“Title – COVID-19 talk” TBD
12:00 pm	Lunch <i>Mountain View Patio</i>
1:30-4:15 pm	Afternoon Break

Session 2: Adipose Organ Cross Talk in Obesity

Session Chair:

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	"Adipogenic stromal subpopulations in adipose tissue" Rana Gupta, PhD, UT Southwestern - USA
5:45 pm	"Title" Young investigator short talk selected from abstracts
6:00 pm	"Title" Young investigator short talk selected from abstracts
6:15 pm	Poster Session and Reception <i>Grand Ballroom, Salons F-J</i>

Tuesday, August 24, 2021

7:00-9:00 am	Breakfast Buffet <i>Grand Ballroom Foyer</i>
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Session 3: Adipose tissue dysfunction and NASH/NAFLD

Session Chair:

8:00 am	"Ironing Out a Novel Homeostatic Role for Resident Adipose Tissue Macrophages " Alyssa Hasty, PhD, Vanderbilt University - USA
8:30 am	"What Lipodystrophies Teach us About Adipose-liver Connections" 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	Coffee Break
9:45 am	"Adipose AMPK and NAFLD" Greg Steinberg, PhD, McMaster University -Canada
10:15 am	"Title" Young investigator short talk selected from abstracts
10:45 am	"Untargeted Metabolomics Reveals an Intercellular Ketone Shuttle that Protects Against Hepatic Fibrosis" Peter Crawford, MD, PhD, University of Minnesota - USA
11:15 am	"Adipose tissue and fatty liver" Laura Nagy, PhD, Cleveland Clinic - USA
11:45 pm	Lunch <i>Mountain View Patio</i>
1:15 pm	Introduction and Presentation of the Roger Davis Lecturer Robert H. Eckel, MD, University of Colorado Denver – USA

1:20 pm	"Title" Roger Davis Award Lecture: Speaker and affiliation -Country
1:50 pm	Introduction and Presentation of the Journal of Lipid Research (JLR) Junior Investigator Award JLR Associate Editor Russell DeBose-Boyd, PhD, UT Southwestern Medical Center-USA JLR Junior Investigator Award Lecture: "Title" Speaker and affiliation -Country
2:20 pm	"Title" Young investigator short talk selected from abstracts
2:35 pm	"Title" Young investigator short talk selected from abstracts
2:50 pm	Afternoon Break

Wednesday, August 25, 2021

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

Session Chair:

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	"Lipid droplet interactions of adipocyte mitochondria with lipid droplets" Orian Shirihai, MD, PhD, UCLA - USA
9:10 am	"Brown and Beige Fat Physiology" Patrick Seale, PhD, University of Pennsylvania - USA
9:40 am	"Lipokines Driving Thermogenesis" Yu-Hua Tseng, PhD, Joslin Diabetes - USA
10:10 am	Coffee Break

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

Session Chair:

10:30 am	"Brown Fat Adipogenesis" David Guertin, PhD, UMass Worcester - USA
11:00 am	"Industry Roundtable -The Future of Adipose Directed Therapeutics"
11:30 am	"The Life of the Mammary Adipocyte" Qiong Annabel Wang, PhD, City of Hope - USA
12:00 pm	"Approaches to Weight Loss: What will Future Therapies look like?" Andrew Whittle, PhD
12:25 pm	Lunch <i>Mountain View Patio</i>

Session6: Sex Differences, Adaptive Functions and Organ Crosstalk

Session Chair:

1:30 pm	"Systems Network Modeling of Metabolic Diseases and Sex Differences" Xia Yang, PhD, UCLA - USA
2:00 pm	"Common Denominators for Increased COVID-19 Sensitivity with Diabetes, Obesity and Dyslipidemia" Philipp Scherer, PhD, UT Southwestern - USA
2:30 pm	"Obesity and the X Chromosome" Karen Reue, PhD, UCLA -USA
3:00 pm	Coffee Break
3:15 pm	"Title" Bei Zhang, PhD, Pfizer - USA
3:45 pm	"GIP-R and GLP-R: an update" Matthew Coghlan, PhD, Lilly - USA
4:15 pm	Introduction to David L. Williams Lecture and Award TBD
4:20 pm	"Title" David L. Williams Lecture: Speaker, Affiliation, Country
4:50 pm	Afternoon Break
6:30 pm-10:00 pm	Dinner Reception <i>Grand Ballroom</i> Adjourn