

# 2022 Kern Lipid Conference

## *“Therapeutic Aspects of Adipose Tissue Organ Crosstalk”*

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

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

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

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

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

#### Session Chair:

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

## Session 2: Adipose Organ Cross Talk in Obesity

### Session Chair:

4:15 pm	<b>"Metabolic heterogeneity of obesity: what's fat got to do with it?" "</b> Samuel Klein, MD, Washington University in St. Louis - USA
4:45 pm	<b>"Obesity-associated metabolites and atherosclerosis risk"</b> Debby Koonen, PhD, University of Groningen - Netherlands
5:15 pm	<b>"Adipogenic stromal subpopulations in adipose tissue"</b> Rana Gupta, PhD, UT Southwestern - USA
5:45 pm	<b>"Title"</b> Young investigator short talk selected from abstracts
6:00 pm	<b>"Title"</b> Young investigator short talk selected from abstracts
6:15 pm	<b>Poster Session and Reception</b> <i>Grand Ballroom, Salons F-J</i>

Tuesday, August 16, 2022

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

### Session Chair:

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

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

Wednesday, August 17, 2022

7:30 am-9:00 am	<b>Breakfast Buffet</b> <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	<b>Franz Simon Poster Award/Introduction - Recipient To be Announced</b> Moshe Levi, MD, President, Kern Lipid Conference, Georgetown University - USA
8:40 am	<b>"Lipid droplet interactions of adipocyte mitochondria with lipid droplets"</b> Orian Shirihai, MD, PhD, UCLA - USA
9:10 am	<b>"Brown and Beige Fat Physiology"</b> Patrick Seale, PhD, University of Pennsylvania - USA
9:40 am	<b>"Lipokines Driving Thermogenesis"</b> Yu-Hua Tseng, PhD, Joslin Diabetes - USA
10:10 am	<b>Coffee Break</b>

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

Session Chair:

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

## Session6: Sex Differences, Adaptive Functions and Organ Crosstalk

### Session Chair:

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