

2019 Kern Lipid Conference

“Signaling Lipids In Health and Disease”

Monday, August 12, 2019 - Wednesday, August 14, 2019

Vail, Colorado

Organizers:

Russell DeBose-Boyd, PhD, UT Southwestern Medical Center

Rebecca Haeusler, PhD, Columbia University

J. Mark Brown, PhD, Cleveland Clinic Lerner Research Institute

Conference Registration

Monday, August 12, 2019

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

8:15am	Introduction and Presentation of the Kern Lectureship Award Moshe Levi, MD, President, Kern Lipid Conference, Georgetown University – USA
8:25am	Kern Lecture: “Lysophospholipid Signaling Pathways at the CNS- Immunology Interface” Benjamin F. Cravatt III, PhD, Scripps Research Institute – USA

Session 1: Neuronal Lipid Signaling

Session Chair: Russell DeBose-Boyd, PhD

9:15am	“Lipid Sensing from the Periphery to the CNS” Gary Schwartz, PhD, Albert Einstein – USA
9:45am	“Apolipoproteins in Neurodegenerative Disease” Cheryl Wellington, PhD, The University of British Columbia – Canada
10:15am	Coffee Break
10:30am	“Lipid Sensitive Immunologic Modulators of Hypothalamic Function” Suneil Koliwad, MD, PhD, University of California, San Francisco, USA
11:00am	“Resolution of 13C and deuterium isotopes allows high-sensitivity lipid fluxomics analysis and gives new insight into post-prandial lipid metabolism” Matthew Mitsche, PhD, UT Southwestern Medical Center - USA
11:15am	“PPARgamma deacetylation, the promise for cardiometabolic syndrome” Li Qiang, PhD, Columbia University - USA
11:30am	“UBIAD1 modulation of ERAD and sterol metabolism” Brittany Johnson, PhD Candidate, UT Southwestern Medical Center - USA Young Investigator Short Talk
12:00pm	Lunch <i>Mountain View Patio</i>
1:00-4:15pm	Afternoon Break

Session 2: Therapeutic Strategies Targeting Lipid Metabolic Pathways

Session Chair: John Parks, PhD

4:15pm	"Targeting Liver Lipid Metabolism with AMPK Activators" Russell Miller, PhD, Pfizer – USA
4:45pm	"New Therapeutics in Cardiometabolic Disease" Laura Michael, PhD, Eli Lilly – USA
5:15pm	"Cardiovascular and Metabolic Effects of Lipoprotein (a) Antisense Oligonucleotides" Rosanne Crooke, PhD, IONIS Pharmaceuticals – USA
5:45pm	"Genome Editing Approaches in Lipid Metabolic Disturbances" Kiran Musunuru, MD, PhD, MPH, ML, University of Pennsylvania – USA
6:15pm	Poster Session and Reception <i>Grand Ballroom, Salons F-J</i>

Tuesday, August 13, 2019

7:30-9:00am	Breakfast Buffet <i>Grand Ballroom Foyer</i>
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Session 3: Strategies for Targeting Aberrant Lipid Signaling in Cancer

Session Chair: John Stafford, MD, PhD

8:30am	"The Role of Lipid Metabolism in Antiangiogenic Drug Resistance" Yihai Cao, PhD, Karolinska Institutet – Sweden
9:00am	"Altered Lipid Metabolism in Myc-Transformed Cancers" M. Celeste Simon, PhD, University of Pennsylvania – USA
9:30am	"Long Chain Fatty Acid Metabolism is a Critical Epigenetically-Driven Dependency in Glioma Stem Cells" Jeremy Rich, MD, University of California San Diego – USA
10:00am	Coffee Break
10:30am	"Mutant GNAS Drives Pancreatic Cancer Progression via Lipid Metabolic Reprogramming" Nabeel Bardeesy, PhD, Massachusetts General Hospital, Harvard Medical School- USA
11:00am	"Srebps and regulation of cholesterol metabolism in colon cancer" Luke Engelking, MD, PhD, UT Southwestern Medical Center-USA
11:15am	"MBOAT7-driven Phosphatidylinositol remodeling promotes the progression of clear cell renal cell carcinoma" Chase Neumann, PhD Candidate, Cleveland Clinic-USA Young Investigator Short Talk
11:30pm	Lunch <i>Mountain View Patio</i>
1:15pm	Introduction and Presentation of the Roger Davis Lecturer Robert H. Eckel, MD, University of Colorado Denver – USA

1:20pm	"Illuminating fatty acid metabolism: Insights into fatty acid signaling and triacylglycerol metabolism" Roger Davis Lecture: Emilio P Mottillo, PhD, Henry Ford Hospital - USA
1:50pm	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: "Regulation of PCSK9 and LDLc by Glucagon Signaling" Lale Ozcan, MD, Columbia University - USA
2:20pm	"ApoC3: at the intersection of intestinal lipid absorption and immune cell metabolism" Alison Kohan, PhD, University of Connecticut - USA
2:50pm	Afternoon Break

Wednesday, August 14, 2019

7:30am-9:00am	Breakfast Buffet <i>Grand Ballroom Foyer</i>
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Session 4: Mechanisms Regulating Intracellular Lipid Storage and Mobilization

Session Chair: Rebecca Haeusler, PhD

8:30am	Franz Simon Poster Award/Introduction - Recipient To be Announced Moshe Levi, MD, President, Kern Lipid Conference, Georgetown University - USA
8:40am	"Epigenetic Regulation of Brown Adipose Tissue Function" Hei Sook Sul, PhD, University of California-Berkeley - USA
9:10am	"Adipose-liver signaling and adaptive thermogenesis" Claudio J. Villanueva, PhD, UCLA - USA
9:40am	"Lipid droplets and lipotoxic cell death in cancer" James A. Olzmann PhD, University of California-Berkeley - USA
10:10am	Coffee Break
10:25am	"Interplay between ChREBP and SREBP Coordinates Glucose and Lipid Metabolism" Guosheng Liang, PhD, UT Southwestern Medical Center - USA
10:55am	"Dynamic Interactions at the Lipid Droplet Surface" Robert Farese Jr., MD, Harvard University - USA
11:25am	"Imaging Lipids, Lipid Dynamics, and Lipid-Protein Interactions " Enrico Gratton, PhD, University of California-Irvine - USA
11:55am	"PNPLA3, CGI-58, and inhibition of hepatic triglyceride hydrolysis" Yang Wang, PhD, UT Southwestern Medical Center-USA Young Investigator Short Talk
12:15pm	Lunch <i>Mountain View Patio</i>

Session 5: Microbe-Host Interactions Impacting Lipid Metabolism & Cardiometabolic Disease

Session Chair: J. Mark Brown, PhD

1:30pm	"Microbiome Nutrition Therapy: Opportunities for Precision Medicine" Tzu-Wen L. Cross, PhD, RD, Purdue University – USA
2:00pm	"Microbe-Driven Tryptophan Metabolism in Cardiometabolic Disease" Kyongbum Lee, PhD, Tufts University – USA
2:30pm	"Microbial Metabolites Regulate Host Lipid Metabolism through NR5A-Hedgehog Signaling" Meng C. Wang, PhD, HHMI, Baylor College of Medicine – USA
3:00pm	Coffee Break
3:15pm	"Regulation of macrophage lipid metabolism by fatty acids" AH (Sander) Kersten, PhD, Wageningen University – The Netherlands
3:45pm	"Intestinal NAPE biosynthesis in the prevention of cardiometabolic disease" Sean Davies, PhD, Vanderbilt University – USA
4:15 pm	Introduction to David L. Williams Lecture and Award Mary Sorci-Thomas, PhD, Medical College of Wisconsin – USA
4:20pm	"Peroxisomal lipid metabolism and the control of energy homeostasis" David L. Williams Lecture: Irfan Lodhi, PhD, Washington University in St. Louis - USA
4:50pm	Afternoon Break
6:30pm-10:00pm	Dinner Reception <i>Grand Ballroom</i> Adjourn