



# FASEB

Federation of American Societies  
for Experimental Biology

## Science Research Conferences

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### Molecular, Physiological and Therapeutic Studies of Intestinal Lipid Transport and Metabolism

**July 23-28, 2017**

**Snowmass, CO**

**Base Village Conference Center**

#### Organizers:

**M. Mahmood Hussain**

NYU Winthrop Hospital  
Mineola, NY

**Kimberly K. Buhman**

Purdue University  
West Lafayette, IN

**Gary Lewis**

University of Toronto  
Toronto, Ontario, Canada

#### Sunday, July 23, 2017

4:00 PM – 9:00 PM	Conference Registration
6:00 PM – 7:00 PM	FASEB SRC Welcome Reception
7:00 PM – 8:00 PM	DINNER
8:00 PM – 8:20 PM	Dr. Shadab Siddiqui, University of Central Florida, FL <i>"Chylomicron Transport Vesicles"</i> in memory of Dr. Mansbach
8:30 PM – 9:20 PM	Dr. Patrick Tso, University of Cincinnati, OH, <i>"Intestinal Lipid Absorption"</i> , Mansbach Keynote Address

#### Monday, July 24, 2017

7:30 AM – 9:00 AM	BREAKFAST
9:00 AM – 12:00 PM	<b>Session 1: Integrative Physiological Studies of Intestinal Lipids and Lipoproteins</b> Session Chair: Murray Huff, MD, University of Western Ontario, Robarts Research Institute
9:00 AM – 9:20 AM	Changting Xiao, PhD, University of Toronto <i>"Regulation of lipid mobilization from the intestine: Lessons from human"</i>

	<i>studies"</i>
9:30 AM – 9:50 AM	Spencer Proctor, PhD, University of Alberta <i>"Role of the lymphatics as a functional conduit in whole body lipid homeostasis"</i>
10:00 AM – 10:20 AM	Xiaoyue Pan, PhD, NYU Winthrop, Mineola, NY <i>"Circadian rhythms of intestinal lipid absorption and plasma lipoproteins"</i>
10:30 AM – 11:00 AM	FASEB Sponsored Coffee Break
11:00 AM – 11:20 AM	Khosrow Adeli, PhD, University of Toronto, <i>"Gut-Brain Nutrient Sensing Mechanisms in regulation of intestinal chylomicron production"</i>
11:30 AM – 11:50 AM	Murray Huff, MD, University of Western Ontario, Robarts Research Institute <i>"Nobiletin prevents intestinal triglyceride accumulation and corrects intestinal insulin resistance"</i>
12:00 PM – 1:00 PM	LUNCH
1:00 PM – 4:00 PM	<b>Free Time</b>
4:00 PM – 6:00 PM	<b>Poster Session</b>
6:00 PM – 7:00 PM	DINNER
<b>7:00 PM – 9:15 PM</b>	<b>Session 2: Systemic Metabolism of Intestinal Lipoproteins</b> Session Chair: Shailesh Patel, University of Cincinnati
	<b>JLR Junior Investigator Award</b>
7:00 PM – 7:20 PM	Brandon Davies, PhD, University of Iowa <i>"ANGPTL control of chylomicron clearance"</i>
7:30 PM – 7:50 PM	Ira Goldberg MD, New York University, NY <i>"Too much fat in the blood and in the tissues"</i>
8:00 PM – 8:15 PM	Coffee Break
8:15 PM – 8:25 PM	Hiroshi Hayashi, MD/PhD, Tokyo Medical and Dental University <i>"Effects of glucose and amino acids feeding on lymphatic transport in rat intestine"</i>
8:30 PM – 8:40 PM	Diana Li, University of Connecticut <i>"ApoCIII prolongs the post-prandial period by inhibiting lipid metabolism at the cytosolic lipid droplet"</i>
8:45 PM – 8:55 PM	Alicia Carreiro, Purdue University <i>"Differences in the enterocyte cytoplasmic lipid droplet proteome in mice resistant (DGAT deficient) versus susceptible (WT) to diet-induced obesity"</i>
9:00 PM – 9:10 PM	Mitchell Lavarias, University of Wisconsin-Madison <i>"What are the physiological roles of long-chain fatty acid oxidation in the intestine?"</i>

Tuesday, July 25, 2017

7:30 AM – 9:00 AM	BREAKFAST
<b>9:00 AM – 12:00 PM</b>	<b>Session 3: Enzymes in Intestinal Lipid Synthesis</b> Session Chair: Eric Yen, PhD, University of Wisconsin
9:00 AM – 9:20 AM	Rosalind Coleman, MD, University of North Carolina-Chapel Hill <i>"Acyl-CoA Synthetase and its partners in compartmentalizing fatty acid metabolism"</i>
9:30 AM – 9:50 AM	Karen Reue, PhD, UCLA <i>"Unexpected roles for lipin proteins in intestinal lipid metabolism"</i>
10:00 AM – 10:20 AM	Andrew Greenberg, PhD, Tufts University <i>"Role of acyl CoA synthetase and perilipin isoforms in intestinal lipid metabolism"</i>

10:30 AM – 11:00 AM	<b>GROUP PHOTO</b> and FASEB Sponsored Coffee Break
11:00 AM – 11:20 AM	Eric Yen, PhD, University of Wisconsin-Madison <i>"Intestinal MGAT2 and Systemic Metabolism"</i>
11:30 AM – 11:40 AM	Rene Jacobs, University of Alberta <i>"Intestine-specific CTP:phosphocholine cytidyltransferase-alpha knockout mice are protected from high-fat diet induced obesity"</i>
11:45 AM – 11:55 AM	Melanie Korbalius, Medical University of Graz, <i>"ATGL/CGI-58-dependent hydrolysis of a lipid storage pool in enterocytes"</i>
12:00 PM – 1:00 PM	LUNCH
1:00 PM – 4:00 PM	<b>Free Time</b>
4:30 PM – 6:00 PM	<b>Meet the Experts 1: Unwinding the mysteries of NIH</b> Session Chair: Greg Shelness, PhD, NIH Panelists: Greg Shelness, PhD, NIH; William Johnson, PhD, NIH; Padma Maruvada, PhD, NIH;
6:00 PM – 7:00 PM	DINNER
<b>7:00 PM – 9:15 PM</b>	<b>Session 4: Cholesterol Uptake and Excretion</b> Session Chair: Uwe Tietge, PhD, University Medical Center Groningen
7:00 PM – 7:20 PM	Albert Groen, PhD, University of Groningen <i>"Transintestinal cholesterol excretion"</i>
7:30 PM – 7:50 PM	Ryan Temel, PhD, University of Kentucky <i>"Impact of reduced biliary cholesterol secretion on transintestinal cholesterol excretion"</i>
8:00 PM – 8:15 PM	Coffee Break
8:15 PM – 8:35 PM	Cedric Le May, PhD, University of Nantes <i>"Modulation of transintestinal cholesterol excretion"</i>
8:45 PM – 8:55 PM	Uwe Tietge, PhD, University Medical Center Groningen <i>"Role of bile acid metabolism in reverse cholesterol transport"</i>
9:00 PM – 9:10 PM	Jacquelin Krysa, University of Alberta, <i>"ApoB48-lipoprotein remnants are associated with increased cardiometabolic risk in adolescents"</i>

Wednesday, July 26, 2017

7:30 AM – 9:00 AM	BREAKFAST
<b>9:00 AM – 12:00 PM</b>	<b>Session 5: Intestinal Lipid Transfer Proteins</b> Session Chair: John Parks, PhD, Wake Forest Medical School
9:00 AM – 9:20 AM	Nicholas Davidson, MD, DSc, Washington University School of Medicine <i>"Multiple pathways for altered glucose homeostasis following intestinal Mttp deletion"</i>
9:30 AM – 9:50 AM	David Cohen, MD, PhD, Weill Cornell Medical College, <i>"Acyl-CoA Thioesterase-Mediated Control of Fatty Acid Trafficking"</i>
10:00 AM – 10:20 AM	Xian-Cheng Jiang, PhD, SUNY Downstate Medical Center <i>"Effect of Intestinal PC Remodeling on Plasma Lipoprotein Metabolism"</i>
10:30 AM – 11:00 AM	FASEB Sponsored Coffee Break
11:00 AM – 11:20 AM	Emmanuelle Reboul, PhD, Aix-Marseille Université, France <i>"Intestinal absorption of fat soluble micronutrients"</i>
11:30 AM – 11:40 AM	Francois Moreau, INSERM, Nantes <i>"Mature enterocytes lose their ability to secrete PCSK9"</i>
11:45 AM – 11:55 AM	Rebecca Haeusler, PhD, Columbia University, NY

	<i>"FoxO transcription factors in HDL-cholesterol metabolism"</i>
12:00 PM – 1:00 PM	LUNCH
1:00 PM – 4:30 PM	<b>Free Time</b>
4:30 PM – 5:30 PM	<b>Meet the Experts 2 – How to write a wining grant?</b> John Parks, Ira Goldberg, Nick Davidson, Karen Reue, and others
5:30 PM – 6:00 PM	<b>Business Meeting</b>
6:00 PM – 7:00 PM	DINNER
<b>7:00 PM – 9:15 PM</b>	<b>Session 6: Intestinal Lipid Droplets: Formation and Mobilization</b> Session Chair: Andrew Greenberg, PhD, Tufts University
7:00 PM – 7:20 PM	Richard, Lehner, PhD, University of Alberta <i>"Role of endoplasmic reticulum associated lipid hydrolases in intestinal lipid storage and secretion"</i>
7:30 PM – 7:50 PM	Kamran Atabai, MD, UCSF <i>"Role of integrins in regulating intestinal lipid homeostasis"</i>
8:00 PM – 8:15 PM	Coffee Break
8:15 PM – 8:25 PM	Ho Yi Mak, The Hong Kong University of Science and Technology <i>"A conserved family of cell surface proteins modulate fat storage"</i>
8:30 PM – 8:40 PM	Alyssa Zembroski, Purdue University, IN <i>"Differential presence of proteins associated with cytoplasmic lipid droplets along the length of the intestine in lean and diet-induced obese mice after a fat challenge"</i>
8:45 PM – 8:55 PM	Dipika Gupta, Indiana University School of Medicine, IN <i>"Innate immunity protein Nod2 protects from diet-induced hyperlipidemia and obesity"</i>
9:00 PM – 9:10 PM	Hannah Pierson, Johns Hopkins University, Baltimore, MD <i>"The function of Wilson disease ATPase ATP7B in intestine"</i>

Thursday, July 27, 2017

7:30 AM – 9:00 AM	BREAKFAST
<b>9:00 AM – 12:00 PM</b>	<b>Session 7: Intestinal Chylomicron Assembly</b> Session Chair: Dennis Black, MD, University of Tennessee Health Sciences
9:00 AM – 9:20 AM	Emile Levy, MD, PhD, University of Montreal <i>"Progress towards understanding the role of Sar1b GTPase in intestinal lipid trafficking and pathophysiological conditions"</i>
9:30 AM – 9:50 AM	Alison Kohan, PhD, University of Connecticut <i>"ApoCIII and lipoprotein synthesis"</i>
10:00 AM – 10:20 AM	Dennis Black, MD, <i>"Role of Apo A-IV in Intestinal Lipid Absorption"</i>
10:30 AM – 11:00 AM	FASEB Sponsored Coffee Break
11:00 AM – 11:20 AM	Shailesh Patel, FRCP, Cincinnati, OH <i>"Sterol Trafficking in the Intestine: New insights"</i>
11:30 AM – 11:40 AM	Scott Gordon, National Institutes of Health, MD <i>"Identification of a gene, DENND5B, with a role in chylomicron secretion by enterocytes"</i>
11:45 – 11:55 AM	Haya Alomaim, University of Ottawa, <i>"Dietary calcium alters fatty acid absorption and lipid metabolism in rats"</i>
12:00 PM – 1:00 PM	LUNCH
1:00 PM – 6:00 PM	<b>Free Time;</b> White water rafting and other activities (optional on your own)
6:00 PM – 7:00 PM	DINNER

<b>7:00 PM – 9:15 PM</b>	<b>Session 8: Intestinal Lipid Metabolism in Zebrafish</b> Session Chair: John Rawls, PhD, Duke University
7:00 PM – 7:20 PM	Steven Farber, PhD, Carnegie Science <i>"Fishing for regulators: Live imaging of Intestinal lipid flux through lipoproteins and lipid droplets using the larval Zebrafish"</i>
7:30 PM – 7:50 PM	Amnon Schlegel, PhD, University of Utah, <i>"Lipid absorption and transport in Zebrafish"</i>
8:00 PM – 8:15 PM	Coffee Break
8:15 PM – 8:35 PM	John Rawls, PhD, Duke University <i>"Microbial regulation of lipid metabolism and gene expression in the Zebrafish intestine"</i>
8:45 PM – 8:55 PM	Jia Wen, Duke University School of Medicine, NC <i>"Dynamics of microbial regulation of lipid metabolism in Zebrafish"</i>
9:00 PM – 9:10 PM	Meredith Wilson, Carnegie Institute for Science, Baltimore <i>"Mutation of DGAT-2 uncouples lipolysis and lipoprotein synthesis in the Zebrafish embryonic digestive organ resulting in aberrant lipid droplet accumulation"</i>

Friday, July 28, 2017

7:30 AM – 8:30 AM	BREAKFAST
	Departures Boxed Lunches Available

#### END OF CONFERENCE

For additional information contact:  
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