

# KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

## Adipose Tissue and Metabolic Health (Q2)

Scientific Organizers: Jacqueline M. Stephens and Antonio J. Vidal-Puig

Supported by the Directors' Fund

## Inter Organ Crosstalk in Non-Alcoholic Steatohepatitis (NASH) (Q1)

Scientific Organizers: Greg Steinberg, Camilla Charlotte Schéele and Saswata Talukdar

February 6-9, 2022 • Keystone Resort • Keystone, CO, USA

Supported by the Directors' Fund

Global Health Travel Award Deadline: January 17, 2022 / Scholarship Deadline: October 20, 2021 / Abstract Deadline: October 27, 2021 / Discounted Registration Deadline: December 7, 2021

### SUNDAY, FEBRUARY 6

#### Arrival and Registration

### MONDAY, FEBRUARY 7

#### Welcome and Keynote Session (Joint)

**Robert V. Farese Jr.**, Harvard School of Public Health, USA  
and

**Tobias Walther**, Harvard/HHMI, USA  
*Dissecting Lipid Droplets: From Mechanisms to New Therapies*

#### Adipose Tissue Crosstalk in Metabolic Diseases (Joint)

**Camilla Charlotte Schéele**, University of Copenhagen, Denmark  
*BATokines*

**Yu-Hua Tseng**, Joslin Diabetes Center/Harvard Medical School, USA  
*Lipokines Driving Thermogenesis*

**Edward T. Chouchani**, Dana-Farber Cancer Institute, USA  
*Succinate Regulation of Metabolism*

#### Short Talk(s) Chosen from Abstracts

#### Workshop 1: Industry Clinical Trials in NASH (Q1)

\***Saswata Talukdar**, Merck, USA

#### Short Talks Chosen from Abstracts

#### Factors that Improve Fat Function, but not Mass (Q2)

**Ruth J.F. Loos**, Mount Sinai School of Medicine, USA  
*Genetics Uncoupling Obesity from Metabolic Complications*

**Jacqueline M. Stephens**, Louisiana State University, USA  
*Pathways that Modulate Adipocyte Function and Improve Systemic Metabolic Function*

**Andrew J. Whittle**, Novo Nordisk, USA  
*Obesity Research*

#### Short Talk(s) Chosen from Abstracts

#### Endocrine Factors as Therapeutic Targets in NASH (Q1)

**Lotte Bjerre Knudsen**, Novo Nordisk A/S, Denmark  
*GLP 1 Receptor Agonists: Mechanisms Relevant for the Treatment of NASH*

**Greg Steinberg**, McMaster University, Canada  
*Endocrine Factors in NASH*

**Katrin J. Svensson**, Stanford University, USA  
*Novel Secreted Factors Regulating Metabolism*

#### Short Talk(s) Chosen from Abstracts

### Poster Session 1

### TUESDAY, FEBRUARY 8

#### Nuts and Bolts of Adipocyte Biology (Q2)

**Ursula A. White**, Pennington Biomedical Research Center, USA  
*Regulation of Adipocyte Turnover in vivo-Influence of Depot, Race, and Exercise*

**Kirsty L. Spalding**, Karolinska Institute, Sweden  
*The Contribution of Human Adipocytes to Metabolic Health*

**Samuel Virtue**, University of Cambridge Metabolic Research Laboratories, UK  
*Mouse Models with Altered Metabolic Flexibility*

#### Speaker to be Announced

#### Short Talk(s) Chosen from Abstracts

#### Inflammation, Fibrosis and the Gut Microbiome (Q1)

**Ido Amit**, Weizmann Institute, Israel  
*Lipid Associated Macrophages and TREM2*

**Scott L. Friedman**, Icahn School of Medicine at Mount Sinai, USA  
*Hepatic Stellate Cell Behavior in NASH*

**Arun J. Sanyal**, Virginia Commonwealth University Medical Center, USA  
*Role of the Gut Microbiome as a Biomarker and Therapeutic Target in NASH*

#### Emerging Technologies for the Study of Tissue Crosstalk (Q1)

**Natalie Krahmer**, Helmholtz Zentrum München, Germany  
*Unbiased Proteomics to Discover Biomarkers and Therapeutic Targets in NASH*

**Takanori Takebe**, Cincinnati Children's Hospital Medical Center, Japan

*Modeling Steatohepatitis in Humans with Liver Organoids*

#### Short Talk(s) Chosen from Abstracts

#### Workshop 2 (Q1)

#### Short Talks Chosen from Abstracts

#### Influences of Adipose Tissue Immune Cells (Q2)

**Myriam Aouadi**, Karolinska Institutet, Sweden  
*Macrophages Influence on Metabolism beyond Inflammation*

**Vishwa Deep Dixit**, Yale University, USA  
*Aging and Adipose Tissue Inflammation*

**Alyssa H. Hasty**, Vanderbilt University, USA  
*Iron Metabolism and AT Macrophages*

#### Short Talk(s) Chosen from Abstracts

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### Muscle-Liver Cross-Talk (Q1)

**Matthew Watt**, University of Melbourne, Australia

*Hepatokines Regulating Muscle Metabolism*

**Bente Klarlund Pedersen**, University of Copenhagen, Denmark

*Muscle-organ Cross-Talk – Focus on IL-6*

**Isabelle Leclercq**, Université catholique de Louvain, Belgium

*Sarcopenic Obesity and NASH*

**Short Talk(s) Chosen from Abstracts**

### Poster Session 2

### WEDNESDAY, FEBRUARY 9

#### Alternate Models of Disease and Metabolism (Q2)

##### Speaker to be Announced

**Jennifer Watts**, Washington State University, USA

*Using C. elegans to Study Lipid Synthesis and Function*

**Fiona Oakley**, Newcastle University, UK

*Bioreactor Technology for Modeling Fibrosis in Human and Rodent Liver*

**Marcel den Hoed**, Uppsala University, Sweden

*Using Zebrafish Larvae to Characterize Candidate Genes for Cardiometabolic Health*

**Short Talk(s) Chosen from Abstracts**

#### NASH Therapeutics (Q1)

**Mary E. Rinella**, Northwestern University, USA

*Recent Advances of Defining Endpoints in NASH Clinical Trials*

**Sophie Bozec**, Poxel SA, France

*PXL770 a Direct AMPK Activator for the Treatment of NASH*

**Saswata Talukdar**, Merck, USA

*New Advances in NASH Therapies*

**Short Talk(s) Chosen from Abstracts**

#### Workshop 3 (Q1)

**Short Talks Chosen from Abstracts**

#### Adipose Tissue Microenvironment: Fibrosis/Extracellular Matrix Remodeling (Q2)

**Karine Clément**, INSERM / Sorbonne Université, France

*Human Adipose Tissue Fibrosis*

**Antonio J. Vidal-Puig**, University of Cambridge, UK

*Uncoupling of Adipose Tissue Fibrosis from Inflammation*

**Silvia Corvera**, University of Massachusetts Medical School, USA

*Adipose Tissue Angiogenesis*

**Short Talk(s) Chosen from Abstracts**

#### Genetics and Liver Derived Signaling Molecules (Q1)

**Yaron Rotman**, NIDDK, National Institutes of Health, USA

*Genetic Regulation of Liver Lipid Metabolism*

**Chen-Yu Zhang**, Nanjing University, China

*Liver-Islet Communication: Role of miRNAs*

**Anna Mae Diehl**, Duke University, USA

*Hedgehog and Metabolic Reprogramming in Fatty Liver Disease*

**Short Talk(s) Chosen from Abstracts**

**Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (Q2)**

**Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (Q1)**

### THURSDAY, FEBRUARY 10

Departure