

Bioenergetics in Health and Diseases (Y6-2023)

Organizer(s): Shingo Kajimura, Anna Krook and Jared Rutter

Keystone Resort, Keystone, CO • January 15 - January 19, 2023

Supported by the Directors' Fund

Sunday, January 15

Arrival and Registration

Welcome Mixer

Monday, January 16

Breakfast

Welcome and Keynote Session (Joint)

Peter Tontonoz †, University of California, Los Angeles

Molecular Mechanisms of Cardiometabolic Health

Sherita H. Golden †, Johns Hopkins School of Medicine

Diabetes and Social Determinants of Health

Metabolic Flux in Health and Disease

(Joint)

Joshua D. Rabinowitz †, Princeton University

Cellular and Systemic Metabolic Flux

Michelle F. Clasquin †, Pfizer, Inc.

Metabolic Flux in Disease States

David E. James †, University of Sydney

Phosphorylation Mechanisms Controlling

Metabolic Flux

David A. Guertin †, University of Massachusetts Medical School

Metabolic Flux in Adipose Tissues

Short Talks Chosen from Abstracts

On Own for Lunch

Poster Setup

Poster Viewing

Nutrition Sensing

Joseph A. Baur †, University of Pennsylvania

NAD Metabolism

Heather Christofk †, University of California, Los Angeles

Mitochondrial Amino Acid Metabolism and Cancer

Tony K.T. Lam †, Toronto General Research Institute

Gut Nutrition Sensing

Short Talks Chosen from Abstracts

Social Hour with Lite Bites

Poster Session 1

Tuesday, January 17

Breakfast

Bioenergetics and Energy Homeostasis

(Joint)

Vamsi K. Mootha †, Massachusetts General Hospital

Mitochondrial Systems Biology

Jared Rutter, University of Utah

Mitochondrial Pyruvate Carrier and Metabolism

Deborah M. Muoio †, Duke University Medical Center

Mitochondrial Dysfunction in Cardiometabolic Disease

Shingo Kajimura, Harvard Medical School,

Beth Israel Deaconess Medical Center

Mitochondrial Bioenergetics in Adipose Tissue

Short Talks Chosen from Abstracts

On Own for Lunch

Poster Setup

Poster Viewing

Exercise and Bioenergetics

Anna Krook, Karolinska Institutet

miRNA Directed Adaptations to Exercise in Skeletal Muscle

Mark A. Febbraio †, Monash Institute of Pharmaceutical Sciences

Metabolic Communication during Exercise

Kei Sakamoto †, Novo Nordisk Foundation Center

Energy Management in Skeletal Muscle – The

Role of AMPK

Short Talks Chosen from Abstracts

Social Hour with Lite Bites

Poster Session 2

Wednesday, January 18

Breakfast

Adipose Tissue and Metabolic Diseases

(joint)

Bruce M. Spiegelman †, Harvard Medical School

Different Adipocyte Thermogenic Mechanisms

Silvia Corvera, University of Massachusetts Medical School

Therapeutic Potential of Thermogenic Adipose Tissue

Philipp E. Scherer †, University of Texas

Southwestern Medical Center

Adipocyte Mitochondria and Systemic Metabolism

Sadaf Farooqi †, University of Cambridge

Genetic Determinants of Adiposity

Short Talks Chosen from Abstracts †

On Own for Lunch

Poster Setup

Poster Viewing

Clock and Metabolism

Satchidananda Panda †, The Salk Institute for Biological Studies

Time-Restricted Feeding and the Mechanisms

Clara Bien Peek †, Northwestern University

Nutrient Regulation of Rhythms and Metabolism

Katja A. Lamia †, The Scripps Research Institute

Circadian Regulation of Energy Homeostasis

Short Talks Chosen from Abstracts

Social Hour with Lite Bites

Poster Session 3

Thursday, January 19

Breakfast

Inter-Organellar Communication

Naveed S. Chandel †, Northwestern University

The Mitochondria Nucleus Communication

Kathryn E. Wellen †, University of Pennsylvania

Subcellular Metabolite Compartmentalization

Edward T. Chouchani †, Dana-Farber Cancer Institute

ROS Signaling and Metabolism

Short Talks Chosen from Abstracts

On Own for Lunch

Mitochondrial Dynamics

Jodi Nunnari †, University of California, Davis

Mechanisms of Mitochondrial Dynamics

Heidi M. McBride †, McGill University

Mitochondria-Derived Vesicles

Thomas Langer †, Max Planck Institute for Biology of Ageing

Mitochondrial Proteostasis

Gia K. Voeltz †, University of Colorado Boulder

Mitochondria-ER Dynamics

Short Talks Chosen from Abstracts

Meeting Wrap-Up: Outcomes and Future

Directions (Organizers)

Social Hour with Lite Bites

Entertainment

Friday, January 20

Departure