# 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**

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## 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
  - 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 California, Los Angeles
    - 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**

### 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 Disfunction in Cardiometabolic Disease
- Shingo Kajimura, Harvard Medical School, Beth Israel Deacness Medical Center
  - Mitochondrial Bioenergetics in Adipose Tissue
- **Short Talks Chosen from Abstracts**
- **On Own for Lunch**
- **Poster Session 1**

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## Tuesday, January 17

- **Breakfast**
- **Bioenergetics and Energy Homeostasis**
  (Joint)
  - Mark A. Febrero †, 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
- **On Own for Lunch**
- **Poster Session 2**

### 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**

### Nutrition Sensing
- Joseph A. Baur †, University of Pennsylvania
  - NAD Metabolism
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  - Mitochondrial Amino Acid Metabolism and Cancer
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### Bioenergetics and Energy Homeostasis

(Joint)
- Vamsi K. Mootha †, Massachusetts General Hospital
  - Mitochondrial Systems Biology
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  - Mitochondrial Bioenergetics in Adipose Tissue
- **Short Talks Chosen from Abstracts**
- **On Own for Lunch**
- **Poster Session 1**

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## 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 Session 3**

### 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**

### Inter-Organelle Communication
- Navdeep 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**
- **Poster Session 4**

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## Thursday, January 19

- **Breakfast**
- **Inter-Organelle Communication**
  - Navdeep 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**
- **Poster Session 5**

### 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