

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Mitochondria, Metabolism and Heart (Q8)

Scientific Organizers: Elizabeth Murphy and Zoltan Arany

Supported by the Directors' Fund

Heart Failure: Mechanisms and Therapies (Q7)

Scientific Organizers: David A. Kass and Saptarsi M. Haldar

February 26-March 1, 2022 • Beaver Run Conference Center • Breckenridge, CO, USA

Supported by the Directors' Fund

Global Health Travel Award Deadline: February 7, 2022 / Scholarship Deadline: November 30, 2021 / Abstract Deadline: November 30, 2021 / Discounted Registration Deadline: January 3, 2022

SATURDAY, FEBRUARY 26

Arrival and Registration

SUNDAY, FEBRUARY 27

Keynote Address (Joint)

Marcia C. Haigis, Harvard Medical School, USA
Mitochondria and Metabolism

Eric M. Verdin, Buck Institute for Research on Aging, USA
Immunological Aging and its Metabolic Control

HF, Metabolic Syndrome, and Altered Substrate Metabolism (Joint)

Rong Tian, University of Washington, USA
NAD⁺ Redox Balance and Heart Failure

Zoltan Arany, University of Pennsylvania, USA
Metabolism in Heart Failure

Christoph Maack, Universitätsklinikum des Saarlandes, Germany
Mechano-Energetic Uncoupling in Hereditary Cardiomyopathies

Short Talks Chosen from Abstracts

Workshop (Q7)

Short Talks Chosen from Abstracts

Regulation of Mitochondrial Ion Homeostasis (Q8)

Diego De Stefani, University of Padova, Italy
Mitochondrial ATP-Sensitive Potassium Channels

Donald M. Bers, University of California, Davis, USA
Mitochondrial Ca Homeostasis in Health and Disease

Elizabeth Murphy, Cardiac Physiology Section Vascular Medicine Branch, NHLBI, NIH, USA
Mitochondrial Calcium and Cell Death

Short Talks Chosen from Abstracts

Gene and Protein Regulation (Q7)

Saptarsi M. Haldar, Amgen Inc., USA
Targeting Gene Regulatory Machinery in Heart Failure

Paula da Costa Martins, Maastricht University, Netherlands
Noncoding RNAs and Cell-Cell Communication in Heart Failure

Bianca Brundel, VU University Medical Center, Netherlands
Proteostasis and Atrial Remodeling with Afib

Short Talks Chosen from Abstracts

Poster Session 1

MONDAY, FEBRUARY 28

Mitochondria and Cell Death (Q8)

Jeffery D. Molkentin, Cincinnati Children's Hospital Medical Center, USA

Role of Adenine Nucleotide Translocator in Mitochondrial Permeability Pore and Death

Roberta A. Gottlieb, Cedars-Sinai Medical Center, USA
Mitochondrial Autophagy

Elizabeth A. Jonas, Yale University, USA
Role of the F1-F0-ATPase in Regulating Cell Death

Richard N. Kitsis, Albert Einstein College of Medicine, USA
Integrating Mitochondrial Cell Death Programs

Short Talks Chosen from Abstracts

HFpEF - Where Are We Now? (Q7)

Gregory D. Lewis, Massachusetts General Hospital, USA
Roles of Obesity and Peripheral Muscle

Speaker to be Announced

Kavita Sharma, Johns Hopkins University School of Medicine, USA
Human HFpEF - Clinical Molecular and Cellular Phenotyping

David A. Kass, Johns Hopkins Hospital, USA
HFpEF and Sarcomeres: The Obesity Connection

Short Talks Chosen from Abstracts

Mitochondria Energetics and Shape (Q8)

Gia K. Voeltz, University of Colorado Boulder, USA
Unraveling the Mechanism of ER-associated Mitochondrial Constriction

John W. Calvert, Emory University School of Medicine, USA
DJ1 Mitochondria and Cell Death

Brian Glancy, NHLBI and NIAMS, National Institutes of Health, USA
Sustaining Power: Building Energy Networks in Striated Muscle Cells

Short Talks Chosen from Abstracts

Inflammation and Immune Regulation (Q7)

Kory J. Lavine, Washington University School of Medicine, USA
Determinants and Impact of Monocyte Fate Specification in the Diseased Heart

Pilar Alcaide, Tufts University School of Medicine, USA
T-Cell Modulation of Myocardial Injury

Speaker to be Announced

Short Talks Chosen from Abstracts

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Poster Session 2

TUESDAY, MARCH 1

Mitochondria and HF (Joint)

Jared Rutter, University of Utah, USA
Mitochondrial Metabolism in the Heart

John W. Elrod, Lewis Katz School of Medicine at Temple University, USA

Mitochondrial Calcium and Epigenetics

Asa B. Gustafsson, University of California, San Diego, USA
Mitophagy and Heart Failure

E. Dale Abel, University of Iowa, Carver College of Medicine, USA
Mitochondria in Heart Failure, Metabolism and Beyond

Short Talks Chosen from Abstracts

Mitochondria and Metabolism (Q8)

Rui-ping Xiao, Peking University, China
RIP Kinase Mediated Death

Paul S. Brookes, University of Rochester Medical Center, USA
Mitochondrial Energetics in Cardiac Ischemia-Reperfusion Injury

Morris J. Birnbaum, Pfizer Inc., USA
Metabolic Targets in Heart Failure

Short Talks Chosen from Abstracts

Fibroblasts and Stroma and Myocyte Crosstalk (Q7)

Christine L. Mummery, Leiden University Medical Center, Netherlands

Stromal Cell-Myocyte Crosstalk in Engineered Tissues

Jennifer Davis, University of Washington, USA
Modulation of Myocardial Fibrosis

Jonathan A. Epstein, University of Pennsylvania, USA
"Cell-Therapeutics to Counter Fibrosis"

Short Talks Chosen from Abstracts

Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (Q8)

Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (Q7)

WEDNESDAY, MARCH 2

Departure