

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Mitochondria, Metabolism and Heart - RESCHEDULING IN PROGRESS (J1)

Scientific Organizers: Elizabeth Murphy and Zoltan P. Arany

Supported by the Directors' Fund

Heart Failure: Mechanisms and Therapies - RESCHEDULING IN PROGRESS (J2)

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

January 14-18, 2021 • Eldorado Hotel & Spa • Santa Fe, NM, USA

Supported by the Directors' Fund

Scholarship Deadline: September 23, 2020 / Abstract Deadline: October 14, 2020 / Discounted Registration Deadline: November 12, 2020

THURSDAY, JANUARY 14

Arrival and Registration

FRIDAY, JANUARY 15

Keynote Address (Joint)

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

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

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

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

Christoph Maack, Universitätsklinikum des Saarlandes, Germany
Targeting Mitochondrial Calcium and ROS in Heart Failure

Short Talks Chosen from Abstracts

Workshop 1 (J2)

Short Talks Chosen from Abstracts

Regulation of Mitochondrial Calcium (J1)

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

Donald M. Bers, University of California, Davis, USA
Mitochondrial Calcium Sparks

Speaker to be Announced

Short Talks Chosen from Abstracts

Protein and Organelle Quality Control (J2)

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

David A. Kass, Johns Hopkins Hospital, USA
PKG and Protein Quality Control

Lucie Carrier, University Medical Center Hamburg-Eppendorf, Germany
Autophagy and Cardiomyopathies

Short Talks Chosen from Abstracts

Poster Session 1

SATURDAY, JANUARY 16

Mitochondria and Cell Death (J1)

Elizabeth Murphy, NHLBI, National Institutes of Health, USA
Mitochondrial Calcium and Cell Death

Jeffery D. Molkenin, 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

Short Talks Chosen from Abstracts

HFpEF - Where Are We Now? (J2)

Gregory D. Lewis, Massachusetts General Hospital, USA
The Integration of Cardiac-Skeletal-Metabolic Systems

Joseph A. Hill, University of Texas Southwestern Medical Center, USA
HFpEF: Malady, Model, and Mechanisms

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

Speaker to be Announced

Short Talks Chosen from Abstracts

Mitochondria Shape and Function (J1)

Luca Scorrano, University of Padova, Italy
Mitochondrial Dynamics and Signaling

Gia K. Voeltz, University of Colorado Boulder, USA
ER-Mitochondrial Contacts

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

Short Talks Chosen from Abstracts

Epigenetic Proteins and Nucleic Acids (J2)

Saptarsi M. Haldar, University of California, San Francisco, USA
Targeting Gene Regulatory Machinery in Heart Failure

Laurie A. Boyer, Massachusetts Institute of Technology, USA
The Role of Metabolism in Cardiac Maturation

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

Short Talks Chosen from Abstracts

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Poster Session 2

SUNDAY, JANUARY 17

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 Energetics (J1)

Paul S. Brookes, University of Rochester Medical Center, USA
Mitochondrial Energetics and Cardiovascular Disease

Orian S. Shirihai, University of California, Los Angeles, USA
Mitochondria and Lipid Droplets

Speaker to be Announced

Short Talks Chosen from Abstracts

Fibrosis and Fibroblast/Myocyte Crosstalk (J2)

Samir Ounzain, HAYA Therapeutics, Switzerland
LncRNA Therapies for Cardiac Fibrosis

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

Jonathan A. Epstein, University of Pennsylvania, USA
A CAR-T Based Anti-Fibrotic Approach

Short Talks Chosen from Abstracts

Poster Session 3

MONDAY, JANUARY 18

Mitochondria and Metabolism (J1)

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

Nika N. Danial, Dana-Farber Cancer Institute, USA
Metabolism and Cell Stress

David Brown, Virginia Tech and Stealth BioTherapeutics, USA
Targeting Mitochondria in Cardiovascular Diseases

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

Short Talks Chosen from Abstracts

New Horizons - Diagnostics and Therapeutics (J2)

Daniele Catalucci, Humanitas Research Hospital, Italy
Nanoparticle Delivery by Inhalation to Treat Heart Failure

Jeff D. Reagan, Amgen Research, USA
AMG 594: A Selective Small Molecule Cardiac Troponin Activator as a Potential Treatment for Systolic Heart Failure

Mauro Giacca, International Center for Genetic Engineering, Italy
miRNA Therapeutics for Cardiac Regeneration and Gene Editing

Pilar Ruiz-Lozano, REGENCOR, USA
Follistatin-Like 1 for Heart Failure Therapy

Short Talks Chosen from Abstracts

Workshop 2 (J2)

Short Talks Chosen from Abstracts

Mitochondria and Cell Death (J1)

Richard N. Kitsis, Albert Einstein College of Medicine, USA
Cell Death and Mitochondrial Quality Control

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

Daria Mochly-Rosen, Stanford University, USA
Mitochondrial Dynamics and Cell Death

Short Talks Chosen from Abstracts

Immune Modulation (J2)

Ajay Chawla, Merck and University of California, San Francisco, USA
Myeloid Cells and Cardiometabolic Disease

Daniela Cihakova, Johns Hopkins University, USA
Controllers of Autoimmune Myocarditis

Matthias Nahrendorf, Massachusetts General Hospital, USA
Myeloid Cells and Cardiovascular Disease

Short Talks Chosen from Abstracts

Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (J1)

Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (J2)

TUESDAY, JANUARY 19

Departure