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 Abf
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. 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

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

* Session Chair † Invited but not yet accepted  Program current as of August 31, 2020. Program subject to change. Meal formats are based on meeting venue. For the most up-to-date details, visit https://www.keystonesymposia.org.
**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

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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*

**Åsa 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

*Mitochondria Energetics and Cardiovascular Disease*

**Orian S. Shirihi, 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

**Monday, January 18**

**Mitochondria and Metabolism (J1)**

**Rui-ping Xiao**, Peking University, China

*RIP Kinase Mediated Death*

**Nika N. Daniel**, 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

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