

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Mitochondrial Dynamics and Physiology (Q5)

Scientific Organizers: Rodrigue Rossignol and Heidi M. McBride

Supported by the Directors' Fund

The Chemistry and Biology of Cell Death (Q6)

Scientific Organizers: Guy S. Salvesen, Matthew S. Boggy and Jennie R. Lill

February 18-23, 2014 • Santa Fe Community Convention Center • Santa Fe, New Mexico, USA

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Abstract & Scholarship Deadline: October 17, 2013 / Abstract Deadline: November 21, 2013 / Discounted Registration Deadline: December 17, 2013

TUESDAY, FEBRUARY 18

WEDNESDAY, FEBRUARY 19

Keynote Session (Joint)

Vishva M. Dixit, Genentech, Inc., USA

Signaling Lessons from Death Receptors: The Inflammasome and Beyond

Jodi Nunnari, University of California, Davis, USA

Molecular Basis of Mitochondrial Behaviors

Mitochondria and Death (Joint)

David W. Andrews, University of Toronto, Canada

Shedding Light on the Mechanisms of Action of Bcl-2 Family Proteins

Richard J. Youle, NINDS, National Institutes of Health, USA
Talk Title to be Determined

C. Glenn Begley[†], Tetralogic Pharmaceuticals, USA

Raising the Standards for Pre-Clinical Research

Mitochondrial Architecture (Q5)

Nikolaus Pfanner, University of Freiburg, Germany

Biogenesis and Architecture of Mitochondria

Thomas Langer, University of Koeln, Germany

Mitochondrial Lipid Trafficking and Organelle Dynamics

Peter Rehling, Göttingen University Medical School, Germany

Mitochondrial Membrane Organization and Protein Biogenesis

Short Talk Chosen from Abstracts

Fundamental Death Mechanisms (Q6)

Douglas R. Green, St. Jude Children's Research Hospital, USA

Non-Apoptotic Developmental Cell Death

Andreas E. Strasser, Walter and Eliza Hall Institute of Medical Research, Australia

Death Receptors

Seamus J. Martin, Trinity College Dublin, Ireland

Crosstalk Between Cell Death and Inflammatory Signaling

Short Talk Chosen from Abstracts

Poster Session 1

THURSDAY, FEBRUARY 20

Mitochondrial Dynamics (Q5)

Heidi M. McBride, McGill University, Canada

Talk Title to be Determined

Gia K. Voeltz, University of Colorado, Boulder, USA

3D Structures of ER-Mitochondrial Contact Sites in Mammalian Cells

Luca Scorrano, University of Padova, Italy

Role of Mitochondrial Dynamics in Embryogenesis

Stefan Strack, University of Iowa, USA

Regulation of Drp1 Assembly and Mitochondrial Fission

Short Talk(s) Chosen from Abstracts

Chemical Biology (Q6)

Benjamin F. Cravatt III[†], The Scripps Research Institute, USA

Phosphorylation and Caspase Substrates

Brent R. Stockwell, Columbia University, USA

Identifying Druggable Disease-Modifying Gene Products

Matthew S. Boggy, Stanford University School of Medicine, USA

Advances in the Use of Small Molecule Probes to Study Caspase Function

Xiaoguang Lei, National Institute of Biological Sciences (NIBS), China

Probing Necroptosis With Small Molecules

Short Talk(s) Chosen from Abstracts

Workshop 1: Mitochondrial Research and Drug Discovery (Q5)

Short Talks Chosen from Abstracts

Workshop 1 (Q6)

Short Talks Chosen from Abstracts

Mitochondria as Signaling Platform (Q5)

Marcia C. Haigis, Harvard Medical School, USA

Sirtuin Regulation of Mitochondria: Energy Production, Apoptosis, and Signaling

Zhijian 'James' Chen, HHMI/University of Texas Southwestern

Medical Center, USA

MAVS - A Marvelous Mitochondrial Antiviral Signaling Protein

Juan Pedros Bolaños[†], Universidad de Salamanca, Spain

Reactive Oxygen Species Control the Bioenergetic Coupling between Neurons and Astrocytes

Short Talk Chosen from Abstracts

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"Deathomics" (Q6)

James A. Wells, University of California, San Francisco, USA
Caspase Kinetics

Jennie R. Lill, Genentech, Inc., USA
Caspase Substrate Discovery

Harris G. Fienberg, Stanford University, USA
Mass Cytometry in TRAIL Signaling

Short Talk Chosen from Abstracts

Poster Session 2

FRIDAY, FEBRUARY 21

Quality Control (Q5)

Cole M. Haynes, Memorial Sloan-Kettering Cancer Center, USA
Talk Title to be Determined

Jared Rutter, University of Utah, USA
Mitochondrial Ubiquitome and Organelle Turnover

Dario C. Altieri, Wistar Institute, USA
Mitochondrial Chaperones

Koji Okamoto, Osaka University, Japan
Targeting Autophagy for Mitochondrial Clearance

Short Talk(s) Chosen from Abstracts

Post-Translational Control of Cell Death (Q6)

John Silke, Walter and Eliza Hall Institute of Medical Research, Australia
IAPs and Ubiquitin

Henning Walczak, Imperial College London, UK
Death Receptors and Ubiquitin in Cell Death and Inflammation

Guy S. Salvesen, Sanford-Burnham Medical Research Institute, USA
Proteolytic Crosstalk in Death and Survival

Marion MacFarlane, MRC Toxicology Unit, UK
Death Receptor Mechanisms

Short Talk(s) Chosen from Abstracts

Workshop 2 (Q6)

Short Talks Chosen from Abstracts

Stem Cells and Development (Q5)

Jahar Bhattacharya, College of P&S, Columbia University, USA
Mitochondrial Transfer from Bone-marrow-derived Stromal Cells to Pulmonary Alveoli Protects against Acute Lung Injury

Carla Koehler, University of California, Los Angeles, USA
Correcting Human Mitochondrial Mutations with Targeted RNA Import

Michael A. Frohman, Stony Brook University, USA
Roles for the Lipid-signaling Enzyme MitoPLD in Mitochondrial Dynamics, piRNA Biogenesis, and Spermatogenesis

Short Talk Chosen from Abstracts

Death Meets Survival (Q6)

Pamela M. Holland, Amgen Inc., USA
Death Receptor Agonists for Cancer: What's the Right TRAIL?

Marion Bonnet, INSERM U976-Hopital St-Louis, France
Keratinocyte Survival and Death

Kim Newton, Genentech, USA
RIP Kinases

Short Talk(s) Chosen from Abstracts

Poster Session 3

SATURDAY, FEBRUARY 22

Environmental Control of Mitochondrial Physiology (Q5)

Paolo Pinton[†], University of Ferrara, Italy
Mitochondrial Redox Signaling by p66Shc

Lluís Fajas, Université de Lausanne, Switzerland
Cdk4: A New Actor in Mitochondria Physiology

Erika L. Pearce, Washington University School of Medicine, USA
Mitochondrial Respiratory Capacity Is a Critical Regulator of CD8+ T Cell Memory Development

Christian Frezza, Hutchison/MRC Research Centre, UK
Altered Mitochondrial Metabolism in Cancer

Short Talk(s) Chosen from Abstracts

Leveraging Model Organisms (Q6)

Eli Arama, Weizmann Institute of Science, Israel
Sperm Individualization

Hyoung Don Ryoo, New York University School of Med., USA
Regulating the Subcellular Distribution of Pro-apoptotic Proteins.

Kim McCall, Boston University, USA
Cell Death in Drosophila Oogenesis

Eric H. Baehrecke, University of Massachusetts Medical School, USA
Cell Death and Autophagy

Short Talk(s) Chosen from Abstracts

Workshop 2: Emerging Topics in Mitochondrial Dynamics and Physiology (Q5)

Short Talks Chosen from Abstracts

Mitochondria in Tissue Homeostasis (Q5)

Eric A. Shoubridge, Montreal Neurological Institute, Canada
Tissue Specificity of Mitochondrial Disorders

Rodrigue Rossignol, University of Bordeaux, France
Mitoplasticity of Lung Tumors

Pei-Feng Li[†], Chinese Academy of Sciences, China
miR-484 and miR-499 Regulate Mitochondrial Dynamics in Heart

Short Talk Chosen from Abstracts

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Systems Biology and Death Imaging (Q6)

Peter Sorger[†], Harvard Medical School, USA

Death Pathway Systems Biology

Sally A. Kornbluth, Duke University Medical Center, USA

Control of Death by Phosphorylation

Pascal Meier, Institute of Cancer Research, UK

Ripoptosomes

Short Talk Chosen from Abstracts

SUNDAY, FEBRUARY 23