

# KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

## Autophagy Network Integration in Health and Disease (B2)

February 12-16, 2017 • Copper Mountain Resort • Copper Mountain, Colorado, USA

Scientific Organizers: Ivan Dikic, Katja Simon and J. Wade Harper

Sponsored by Cell Research, Novartis Institutes for BioMedical Research and Shire Human Genetic Therapies

Abstract & Scholarship Deadline: October 11, 2016 / Abstract Deadline: November 15, 2016 / Discounted Registration Deadline: December 13, 2016

### SUNDAY, FEBRUARY 12

#### Arrival and Registration

### MONDAY, FEBRUARY 13

#### Welcome and Keynote Address

**Herbert (Skip) W. Virgin**, Washington University School of Medicine, USA

*Autophagy and Autophagy Genes in Inflammation and Immunity: From Mice to Man*

#### Autophagy Systems

**J. Wade Harper**, Harvard Medical School, USA

*Autophagy System Analysis*

**Sharon A. Tooze**, Francis Crick Institute, UK

*Mechanisms Controlling Autophagosome Formation*

**Daniel J. Klionsky**, University of Michigan, USA

*The Mechanism and Regulation of Autophagy in Yeast*

#### Short Talk(s) Chosen from Abstracts

#### Workshop 1

##### Short Talks Chosen from Abstracts

#### Structural and Molecular Anatomy of Autophagy Pathway

**Vladimir Denic**, Harvard University, USA

*Mechanisms of Atg1 Activation by Selective Autophagy Targets*

**James H. Hurley**, University of California, Berkeley, USA

*Regulation and Scaffolding of Autophagy Initiation*

**Zvulun Elazar**, Weizmann Institute of Science, Israel

*Relationships between Fatty Acids, Lipid Droplets and Autophagy*

#### Short Talk Chosen from Abstracts

#### Poster Session 1

### TUESDAY, FEBRUARY 14

#### Conventional and Unconventional Autophagy Networks

**Patrice Codogno**, INSERM U1151, France

*Autophagy and Plasma Membrane Domains*

**Noboru Mizushima**, University of Tokyo, Japan

*Physiological Roles of Autophagy in Mice*

**Christian Behrends**, Goethe University, Germany

*The Roles of Human ATG8 Proteins in Autophagy and Beyond*

#### Speaker to be Announced

#### Short Talk(s) Chosen from Abstracts

#### Autophagy Crosstalk with Other Pathways

**Malene Hansen**, Sanford Burnham Prebys Institute, USA

*Autophagy and Aging: Lessons from Long-Lived Animals*

**Eric H. Baehrecke**, University of Massachusetts Medical School, USA

*Autophagy and Cell Death Pathways*

**Marja Jäättelä**, Danish Cancer Society, Denmark

*Autophagy and Lysosome Functions*

#### Short Talk Chosen from Abstracts

#### Poster Session 2

### WEDNESDAY, FEBRUARY 15

#### Selective Autophagy

**Tamotsu Yoshimori**, Osaka University, Japan

*Dynamics of Selective Autophagy Pathways*

**Felix Randow**, MRC Laboratory of Molecular Biology, UK

*Selective Autophagy of Pathogens*

**Ivan Dikic**, Goethe University Medical School, Germany

*Phosphorylation and Ubiquitin-Dependent Selective Autophagy*

**Li Yu**, Tsinghua University, China

*Regulation and Function of Energy Deprivation Induced Autophagy*

#### Short Talk(s) Chosen from Abstracts

#### Autophagy in Neurons

**Richard J. Youle**, NINDS, National Institutes of Health, USA

*Molecular Basis of Parkinson's Disease*

**Patricia Boya**, Centro de Investigaciones Biológicas, CSIC, Spain

*Mitophagy in Neurons: From Development to Degeneration*

**Erika L. F. Holzbaur**, University of Pennsylvania, USA

*Autophagy in Neuronal Homeostasis and Neurodegeneration*

#### Short Talk Chosen from Abstracts

#### Poster Session 3

### THURSDAY, FEBRUARY 16

#### Metabolism, Oncogenesis and Stem Cells

**Eileen P. White**, Rutgers University, USA

*Autophagy, Metabolism and Cancer*

**Katja Simon**, University of Oxford, UK

*Autophagy and Hematopoietic System*

#### Speaker to be Announced

**Alison Simmons**, Weatherall Institute of Molecular Medicine, UK

*Innate Immunity and Autophagy in Rare Intestinal Cell Subsets*

#### Short Talk(s) Chosen from Abstracts

#### Workshop 2

##### Short Talks Chosen from Abstracts

#### Targeting Autophagy Networks

##### Speaker to be Announced

**David C. Rubinsztein**, Cambridge Institute for Medical Research, UK

*Autophagy and Neurodegeneration*

**Natalie D'Amore**, Takeda Boston, USA

*Targeting Autophagy for Cancer Therapy*

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

### FRIDAY, FEBRUARY 17

#### Departure