

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Intra- and Intercellular Mechanisms of Aging (B2)

February 9-13, 2020 • Fairmont Hotel Vancouver • Vancouver, British Columbia, Canada

Scientific Organizers: Malene Hansen, Johan Auwerx and Heinrich Jasper

Sponsored by Astellas Pharma Inc. and Cell Research

Discounted Abstract & Scholarship Deadline: October 10, 2019 / Abstract Deadline: November 7, 2019 / Discounted Registration Deadline: December 11, 2019

SUNDAY, FEBRUARY 9

Arrival and Registration

MONDAY, FEBRUARY 10

Welcome and Keynote Address

Andrew G. Dillin, University of California, Berkeley, USA
Cell Autonomous and Cell Non-autonomous Regulation of Proteostasis

DNA / Chromatin Homeostasis

Shelley L. Berger, University of Pennsylvania, USA
Epigenetic Mechanisms in Yeast and Cells

Joachim Lingner, EPFL, Switzerland
Manipulation of Oxidative Damage at Telomeres to Regulate Cellular Lifespan

Judith Campisi, Buck Institute for Research on Aging, USA
Cellular senescence and aging: Cell autonomous and non-autonomous mechanisms

Short Talks Chosen from Abstracts

Workshop 1: Emerging Concepts

Short Talks Chosen from Abstracts

Vesicle/Membrane Homeostasis

Malene Hansen, Sanford Burnham Prebys Medical Discovery Institute, USA
Cell Autonomous and Cell Non-autonomous Functions of Autophagy in Aging

Ana Maria Cuervo, Albert Einstein College of Medicine, USA
Role of Chaperone-Mediated Autophagy in Neurodegeneration and Aging

Martin W. Hetzer, The Salk Institute, USA
Long-Lived Proteins and their Role in Aging

Short Talks Chosen from Abstracts

Poster Session 1

TUESDAY, FEBRUARY 11

Protein Homeostasis

Daniel E. Gottschling, Calico, USA
Changes in Cellular Quality Control In Yeast Aging

Judith Frydman, Stanford University, USA
Molecular Chaperones and Protein Folding

Richard I. Morimoto, Northwestern University, USA
The Heat Shock Response as an Intra- and Intercellular Protein Homeostatic Mechanism

Cynthia Kenyon, Calico, USA
*Mechanisms that Slow or Reverse Aspects of Aging in *C. elegans**

Short Talks Chosen from Abstracts

Mitochondrial Homeostasis

Johan Auwerx, École Polytechnique Fédérale de Lausanne, Switzerland
Genetic Dissection of Mitochondrial Function and Aging

David Walker, University of California, Los Angeles, USA
*Mitophagy and its Role in *Drosophila* Aging*

Cole M. Haynes, University of Massachusetts Medical School, USA
*Retrograde Response and *C. elegans* Aging*

Short Talks Chosen from Abstracts

Poster Session 2

WEDNESDAY, FEBRUARY 12

Stem Cells

Heinrich Jasper, Genentech, Inc. & Buck Institute for Research on Aging, USA
Intestinal Stem Cells and Aging in Flies and Beyond

Pekka Katajisto, University of Helsinki, Finland
Stem Cell Niche and Aging

Pura Munoz Canoves, Universitat Pompeu Fabra, Spain
Intracellular Signaling Mechanisms and Muscle Stem Cell Aging

Short Talks Chosen from Abstracts

Inter-Tissue Signaling

William B. Mair, Harvard School of Public Health, USA
*Tissue-Specific Functions of AMPK/CRTC in *C. elegans**

Coleen T. Murphy, Princeton University, USA
Neuronal/Cognitive Control of Aging

Fabio Demontis, St. Jude Children's Research Hospital, USA
*Inter-Tissue Regulation of Aging and Proteostasis in *Drosophila* via Myokine Signaling*

Minho M. Shong, Chungnam National University School of Medicine, South Korea
Role of Mammalian Mitokine GDF15 in Mammalian Aging

Poster Session 3

THURSDAY, FEBRUARY 13

Metabolism

Meng C. Wang, Baylor College of Medicine, USA
Metabolite Signaling in Longevity Regulation

Dario Riccardo Valenzano, Max-Planck Institute for Biology of Ageing, Germany
Systemic Regulation of Aging via the Gut Microbiota

Anne Brunet, Stanford University, USA
Metabolism and Aging

P. Eline Slagboom, Leiden University, Netherlands
Hall Marks of Human Aging in the Molecular Profiles of Intervention and Cohort Studies

Short Talks Chosen from Abstracts

Workshop 2: Mentoring

Neurodegenerative Diseases

Saul A. Villeda, University of California, San Francisco, USA
Mechanisms of Brain Aging and Rejuvenation

Li-Huei Tsai, Massachusetts Institute of Technology, USA
Epigenetics and Alzheimer's Disease

Chee-Yeun Chung, Yumanity Therapeutics, USA
Novel Drug Discovery Platform for Neurodegenerative Diseases

Short Talk Chosen from Abstracts

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

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FRIDAY, FEBRUARY 14

Departure