

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Intra- and Intercellular Mechanisms of Aging (B2)

February 9-13, 2020 • Fairmont Hotel Vancouver • Vancouver, BC, Canada

Scientific Organizers: Malene Hansen, Johan Auwerx and Heinrich Jasper

Sponsored by Astellas Pharma Inc. and Cell Research

Discounted Abstract & Scholarship Deadline: October 31, 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, École Polytechnique Fédérale de Lausanne, Switzerland
Critical Roles of Single Strand Telomere Binding Proteins to Prevent Telomeric DNA Damage, Checkpoint Signaling and Cellular Senescence

Judith Campisi, Buck Institute for Research on Aging, USA
Cellular Senescence and Aging: Cell Autonomous and Non-Autonomous Mechanisms

Short Talks Chosen from Abstracts

Poster Session 1

Workshop 1: Emerging Concepts

Short Talks Chosen from Abstracts

Vesicle/Membrane Homeostasis

Malene Hansen, Sanford Burnham Prebys Medical Discovery Institute, USA
Regulation of Autophagy in Aging and Disease

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
Age Mosaicism across Multiple Scales in Adult Tissues

Short Talks Chosen from Abstracts

TUESDAY, FEBRUARY 11

Protein Homeostasis

Dan Gottschling, Calico, USA
Developing a Comprehensive Understanding of Genetic and Environmental Contributions to Cellular Aging

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

Richard I. Morimoto, Northwestern University, USA
Cell Non-Autonomous Regulation of Organismal Proteostasis

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
A Conserved Role of CBP/p300 in Mitochondrial Stress Response and Longevity

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

Cole M. Haynes, University of Massachusetts Medical School, USA
Scaling Mitochondrial Network Expansion with Cell Growth or Recovery

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
Role of Stem Cell Niche in Intestinal 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
Metabolic Communication and Longevity

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

Fabio Demontis, St. Jude Children's Research Hospital, USA
Systemic Nutrient Signaling via Myokines

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

THURSDAY, FEBRUARY 13

Metabolism

Meng C. Wang, Baylor College of Medicine/HHMI, USA
Metabolite Signals 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
Identifying Mechanisms of Brain 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
From Yeast to Neurons to Patients: A 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