<table>
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<th>Date</th>
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<tr>
<td>SUNDAY, MARCH 26</td>
<td>Arrival and Registration</td>
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</table>
| MONDAY, MARCH 27 | Welcome and Keynote Session (Joint)                                                          |                                                                          | Anne Brunet, Stanford University, USA  
Mechanisms of Aging, Regeneration and 'Suspended Animation'  
Eric A. Shoubridge, McGill University, Canada  
Lessons on Mitochondrial Biology from Rare Diseases  
Shelley L. Berger, University of Pennsylvania, USA  
Epigenetic Alterations in Aging and Senescence  
Michael A. Bonaguidi, University of Southern California, USA  
Single Cell and Machine Learning Approaches to Uncover Molecular Determinants of Healthy Aging  
Short Talks Chosen from Abstracts  
mtDNA Molecular Biology and Molecular Pathogenesis (X5)  
Agnel Sfeir, Memorial Sloan Kettering Cancer Center, USA  
Origins of the mtDNA Deletion  
Claes Gustafsson, University of Gothenburg, Sweden  
Regulation of Mitochondrial Transcription in Mammalian Cells  
Maria Falkenberg, University of Gothenburg, Sweden  
Mitochondrial DNA Replication in Mammalian Cells  
Short Talks Chosen from Abstracts  
Workshop 1 (X6)  
Short Talks Chosen from Abstracts  
Stress and Accelerated Aging (X6)  
Emmanuelle Passegué, Columbia University, USA  
Stress Pathways in Aging Stem Cells  
Abigail Buchwalter, University of California, San Francisco, USA  
Progerias, Ribosomes and Aging  
Heinrich Jasper, Genentech, Inc. and Buck Institute for Research on Aging, USA  
Intrinsic and Extrinsic Causes of Stem Cell Aging  
Short Talks Chosen from Abstracts  
Human Genetics and Markers of Rare Mitochondrial Disease (X5)  
David R. Thorburn, Murdoch Children's Research Institute, Australia  
mtDNA and Nuclear Genetic Basis of Mitochondrial Disease  
Ekaterina Korotkevich, University of California, San Francisco, USA  
Competition of Mitochondrial Genomes in Mammalian Somatic Tissues  
Short Talks Chosen from Abstracts |
| TUESDAY, MARCH 28 | External Impacts on Trajectories of Aging (X6)                                               |                                                                          | Joseph S. Takahashi, HHMI/University of Texas Southwestern Medical Center, USA  
Circadian Clocks and Aging  
Salvador Aznar Benitah, ICREA and Institute for Research in Biomedicine, Spain  
Tissue Communication During Health and Aging: Role of Systemic Clocks  
Rafael de Cabo, NIA, National Institutes of Health, USA  
Gene-Environment Interactions Regulating Aging  
Vera Gorbunova, University of Rochester, USA  
Mechanisms of Longevity  
Short Talks Chosen from Abstracts  
mtDNA Surveillance and Transmission (X5)  
Cole M. Haynes, University of Massachusetts Medical School, USA  
mtDNA Quality Control in Worm Germline  
Liza A. Pon, Columbia University Medical Center, USA  
Mitochondrial Quality Control and Aging  
Ruth Lehmann, Whitehead Institute, USA  
Mitochondrial Quality Control and Transmission in the Drosophila Germline  
Nils-Goran Larsson, Karolinska Institute, Sweden  
Selection/Transmission of mtDNA in Mice  
Short Talks Chosen from Abstracts  
Aging and Inter-Tissue Communication (X6)  
Coleen T. Murphy, Princeton University, USA  
The Role of Mitochondrial Dynamics and Metabolism on Reproductive Aging  
Saul A. Villeda, University of California, San Francisco, USA  
Systemic Mechanisms of Brain Rejuvenation  
Katrin Andreasson, Stanford University, USA  
Immune-Metabolic Mechanisms of Cognitive Decline  
Short Talks Chosen from Abstracts  
Mitochondrial Cell Biology and Dynamics (X5)  
David C. Chan, California Institute of Technology, USA  
Mitochondrial Dynamics in Mammals  
Richard J. Youle, NINDS, National Institutes of Health, USA  
PINK/PARKIN System and Neurodegeneration  
Short Talks Chosen from Abstracts |

* Session Chair † Invited but not yet accepted  
Program current as of November 17, 2022  
Scholarship Deadline: December 19, 2022 / Abstract Deadline: December 19, 2022 / Discounted Registration Deadline: January 25, 2023
Poster Session 2

**WEDNESDAY, MARCH 29**

**Mitochondrial Metabolism and Aging in Metazoan Models (Joint)**
- Andrew G. Dillin, University of California, Berkeley, USA
  *Mitokines in Worms*
- Edward Owusu-Ansah, Columbia University, USA
  *Regulation of Mitochondrial Complex I Assembly During Stress and Aging*
- Meng C. Wang, Baylor College of Medicine/HHMI, USA
  *Lysosome-Mitochondria Crosstalk in Longevity Regulation*
- Noga Ron-Harel, Technion-Israel Institute of Technology, Israel
  *Mitochondria in T Cell Activation and Aging*

**Short Talks Chosen from Abstracts**

**Workshop 2 (X6)**

**Short Talks Chosen from Abstracts**

**Emerging Targets and Opportunities for Geroprotection (X6)**
- Manuel Serrano, Institute for Research in Biomedicine, Spain
  *Cellular Heterogeneity, Plasticity, Senescence and Aging*
- Amy J. Wagers, Harvard University, USA
  *Tissue Dlonality and Genetic Therapies of Aging*
- Makoto Nakanishi, University of Tokyo, Japan
  *Senolysis*

**Short Talks Chosen from Abstracts**

**Mitochondrial Redox Metabolism / Emerging Therapeutic Modalities (X5)**
- Ruma Banerjee, University of Michigan, USA
  *H2S and Mitochondrial Metabolism*
- Bruce M. Spiegelman, Harvard Medical School, USA
  *Mitochondrial Biogenesis and Energy Expenditure*
- Vishal M. Gohil, Texas A&M University, USA
  *Therapeutic Approaches to Disorders of Mitochondrial Copper Metabolism*
- Michio Hirano, Columbia University

* Session Chair † invited but not yet accepted     Program current as of November 17, 2022. Meal formats are based on meeting venue. For the most up-to-date details, visit https://www.keystonesymposia.org.
Medical Center, USA

Nucleoside Bypass Therapy for Mitochondrial Disease

**Short Talks Chosen from Abstracts**

**Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (X6)**

**Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (X5)**

**THURSDAY, MARCH 30**