
8:20 – 8:50 am Breakfast and Registration

8:50 am Welcome Address – Hao Li

9:00 am Brain Aging/Neurodegeneration – Chair: Danica Chen

Ian Hunter Guldner (Wyss-Coray lab/Stanford): Tagging Proteins to Measure Brain Aging

Doudou Yu (Webb Lab/Buck): HypoAD: volumetric and single-cell analysis of the human hypothalamus in aging and Alzheimer's disease

Coline Arnould (Ahituv lab/UCSF): Characterizing the role of DNA double-strand breaks in Alzheimer's disease

Kristeen Pareja (Tracy Lab/Buck): Tau oligomers elicit progressive transsynaptic dysregulation leading to synapse loss

Sudipta Bar (Kapahi Lab/Buck): Neuronal Glycogen Breakdown Mitigates Tauopathy via Pentose Phosphate Pathway-Mediated Oxidative Stress Reduction

10:15 am Coffee Break

10:30 am Senescence/Immune Aging – Chair: Pankaj Kapahi

Jessy Tan (Andreasson lab/Stanford): Restoring Clearance of Senescent Neutrophils by Tissue-Resident Macrophages Prevents Aging

Joanna Bons (Schilling Lab/Buck): Human lung aging study analyzing primary tissues reveals senescence factors

Mike Lanz (Skotheim lab/Stanford): Quantifying the contribution of cell enlargement to senescence-associated proteome remodeling

Marine Barthez (Chen lab/Berkeley): Aging-associated Inflammation

11:30 am Keynote Lecture – Chair: Hao Li

Nir Barzilai (Professor, Albert Einstein College of Medicine): How to die young at a very old age

12:15 pm Lunch and Poster

2:00 pm Metabolism/Homeostasis/Other frontiers – Chair: Jonathan Long

Fan Zheng (Zhou Lab/Buck): Metabolic Environment–Driven Plasticity of Mitochondrial Ribosomes

Varunya Kattunga (Andersen Lab/Buck): Deep Phenotypic Profiling of Mitochondria to Reveal Novel Mitophagy Pathways

Molly Hodul (Kao lab/UCSF): Illuminating Lysosomal pH Dynamics in Aging: New Tools for Measurement, Control, and Discovery

Cayce Shaw (Dubal lab/UCSF): Aging awakens the silent X chromosome in cells of the XX hippocampus

Jingxun Chen (Brunet lab/Stanford): Vertebrate organ aging impacted by sexual interaction

Nicolas Jackson (Jones lab/UCSF): Stem Cells in Motion: Exercise as a Strategy to Address Age-Related Intestinal Dysfunction.

Stacy Li (Sudmant lab/Berkeley): Characterizing de novo structural variation in the aging germline

3:45 pm Coffee break

4:10 pm Panel Discussion – Molecules to medicine: The translational landscape of aging interventions – Moderator: Chris Patil

Nir Barzilai (Professor, Albert Einstein College of Medicine), **Anne Brunet** (Professor, Stanford), **Jodi Nunnari**

(Director, Bay Area Institute of Science, Altos Labs), **Janine Sengstack** (Cofounder and CSO, Junevity Inc.),

Sebastien Thuault (Chief Editor, Nature Aging), **Saul Villeda** (Professor, UCSF)

5:20 pm Poster Awards

5:30 Reception

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