

8:30 am Registration

9:00 am Welcome Address – Danica Chen

9:10 am Brain Aging – Chair: Pankaj Kapahi

Cana Park (Dubal Lab/UCSF): Platelet factors are induced by longevity factor klotho and enhance cognition and its molecular signature in the aging hippocampus

Alex Ehrenberg (Kaufer Lab/Berkeley): Convergent vulnerability of subcortical neuromodulatory systems to social stress and neurodegeneration

Chao Liu (Conboy Lab/Berkeley): Understanding the age-specific effects of blood on the brain in BBB organ chip

Tal Iram (Wyss-Coray lab/Stanford): Young CSF restores oligodendrogenesis and memory in aged mice

Nikola Markov (Furman lab/Buck): Immune Biomarkers of Age-related Brain Atrophy

Jeremy Shea (Villeda lab/UCSF): Microglia aging progresses through functional intermediates

10:40 am Coffee Break

10:50 am Keynote Lectures – Chair: Danica Chen

Will Bohr (Laboratory Chief, NIH): DNA damage and mitochondrial dysfunction in neurodegeneration and aging

John Sedivy (Professor, Brown University): Involvement of Retrotransposons in Aging and Age-Related Diseases

11:50 am Lunch (set up posters)

12:50 pm Mitochondria, Proteostasis, & Genomic Stability – Chair: Hao Li (Sponsored by Spring Discovery)

Isabel Serrano (Sudmant lab/Berkeley): Mitochondrial haplotype and mito-nuclear matching drive somatic mutation and selection through aging

Qingqing Liu (Zhou lab/Buck): Tom70-based crosstalk of cytosolic proteostasis and mitochondrial biogenesis under stress and aging

Michael Schoof (Walter lab/UCSF): A unifying model for activation and inhibition of the integrated stress response

Michael Mobaraki (Li lab/UCSF): Temporal dynamics of aging hallmarks revealed by single cell live imaging

Ching-Chieh (Ian) Chou (Frydman lab/Stanford): Lysosomal defects and restoration in transdifferentiated neurons from Alzheimer's disease patients

Yana Blokhina (Buchwalter lab/UCSF): Using dCas9-directed DNA methylation to dissect the function of age-linked ribosomal DNA hypermethylation

2:20 pm Coffee Break

2:30 pm Stem Cells and Therapy – Chair: Anne Brunet (Sponsored by BioAge Labs)

Chih Ling Wang (Chen Lab/Berkeley): Mitochondrial unfolded protein response regulates hippocampal neural stem cell aging

Thomas Ambrosi (Chan lab/Stanford): Aged skeletal stem cells generate degenerative inflammatory niches

Tyson Ruetz (Brunet lab/Stanford): In vitro and in vivo CRISPR-Cas9 screens reveal drivers of aging in neural stem cells of the brain

Serban Ciotlos (Melov Lab/Buck): Sen-nascent Activity: An Endogenous Metabolite Senolytic and Multimodal Mapping with SenNet

Lauren Wimer (Kapahi Lab/Buck): Glycation lowering combination therapy reduces caloric intake, improves glucose tolerance, and extends lifespan

Alexey Tomilov (Cortopassi Lab/UCD): A novel piperazine class of mTORC1 inhibitors: one of which extends lifespan in mice

4:00 pm Poster Session/Reception (Sponsored by Retro Biosciences)

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