



**21<sup>th</sup> Bay Area Aging Meeting**  
Thursday, December 8, 2022  
Robertson Auditorium  
Mission Bay Conference Center

UCSF Mission Bay Campus, 1675 Owens Street, San Francisco



University of California  
San Francisco

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### 8:20 – 8:50 am Breakfast and Registration

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#### 8:50 am Welcome Address – Hao Li

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#### 9:00 am Metabolism and Aging (sponsored by Altos Labs) – Chair: Danica Chen

**Peter Cathey** (Zoncu lab/UC Berkeley): Decoding cholesterol-mTORC1 signaling in growth and disease

**Vienvilay Phandanouvong-Lozano** (Wolf lab/UC Berkeley): Gut bacterial metabolism of dietary sialic acids

**Brenda Eap** (Newman lab/UCSF & Buck): Ketone body metabolism declines with age in mice in a sex-dependent manner

**Maria Dolores Moya-Garzon** (Long lab/Stanford): BHB-Phe as a ketosis-inducible metabolite linked to energy balance

**Wei-Chieh Mu** (Chen lab/UC Berkeley): The Hepatic Integrated Stress Response Suppresses the Somatotroph Axis to Control Liver Damage in Nonalcoholic Fatty Liver Disease

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#### 10:15 am Coffee Break

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#### 10:30 am Rejuvenation/clock/reproductive aging (sponsored by Retro Biosciences) – Chair: Pankaj Kapahi

**Janine Sengstack** (Li lab/UCSF): Systematic Approach identifies multiple transcription factor perturbations that rejuvenate replicatively aged human skin fibroblasts

**Mohsen Afshar** (Blau lab/Stanford): Rejuvenating aged skeletal muscle by targeting a gerozyme

**Alan Tomusiak** (Verdin lab/Buck): A Novel Epigenetic Clock Immune to the Effects of Immune Cell Differentiation

**Christina King** (Schilling lab/Buck): Proteomic Analysis of Native and ECM-Enriched Mouse Ovaries Reveals Age-Dependent Signatures

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#### 11:30 am Keynote Lecture – Chair: Hao Li

**Judith Campisi** (Professor, Buck Institute): Cellular senescence—bringing aging research together

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#### 12:15 pm Lunch and Poster

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#### 2:00 pm Brain Aging/New Technologies (sponsored by UCSF BARI) – Chair: Anne Brunet

**Laura Remesal Gomez** (Villeda lab/UCSF): Role of the iron associated protein FTL1 as a neuronal pro-aging factor promoting cognitive decline

**Karen Krukowski** (Rosi lab/Altos): Neuro immune interactions in the aging brain

**Oliver Hahn** (Wyss-Coray lab/Stanford): Finding the weakest link: Tracing brain aging hotspots for preventive intervention

**Sudipta Bar** (Kapahi lab/Buck): Increasing glycogen breakdown in neurons is neuroprotective in a tauopathy model

**Emmy Li** (Kampmann lab/UCSF): CRISPRi-based genetic screens in iPSC-derived 3D neuron-astrocyte-microglia iAssembloids

**Bonnie Zhu** (Schaffer lab/UC Berkeley): Innovation by Evolution: Engineering Next-Generation of Adeno-Associated Viral Vectors for Gene Therapeutics in Central Nervous System

**Claire Bedbrook** (Brunet & Deisseroth labs/Stanford): Continuous behavioral tracking throughout lifespan to predict remaining life

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#### 3:45 pm Kevin Lee – Glenn Foundation Remarks

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#### 3:55 pm Coffee Break

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#### 4:10 pm Panel Discussion – Aging research and its translation: the past, present, and future -

#### Moderator: Leanne Jones

**Christy Carter** (Program officer, Training and workforce development, NIA), **Kristen Fortney** (CEO and co-founder, BioAge), **Cynthia Kenyon** (Vice President of Aging Research, Calico), **Eric Verdin** (President and CEO, Buck Institute), **Peter Walter** (Director, Bay Area Institute of Science, Altos), **Tony Wyss-Coray** (Professor, Stanford)

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#### 5:25 pm David Schaffer – QB3 announcements

#### 5:30 pm Poster Awards

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#### 5:40 Reception (Sponsored by BioAge Labs)

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### THANK YOU FOR YOUR SPONSORSHIP

Glenn Foundation for Medical Research (Platinum Plus)

Altos Labs (Gold)

UCSF Bakar Aging Research Institute (BARI) (Gold)

BioAge Labs (Silver)

Retro Biosciences (Silver)

Rubedo Life Sciences (Bronze)