



**24<sup>th</sup> Bay Area Aging Meeting**  
Tuesday, May 14<sup>th</sup>, 2024  
Room 245, Li Ka-Shing Center  
University of California, Berkeley

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### 8:30 am Registration/Breakfast

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### 9:00 am Welcome Address – Danica Chen

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### 9:15 am Mechanics of Aging – Chair: Pankaj Kapahi

**Serafina Mei** (Conboy lab): Quantification (not prediction) of biological age, which keeps intact the natural nonlinearity of the aging process

**Francesco Neri** (Campisi/Schilling labs): A Fully-Automated Senescence Test (FAST) for the high-throughput quantification of senescence-associated markers

**Jie Hong** (Li lab): A High-throughput Screening Platform for Longevity Gene and Anti-aging Drug Discovery

**Xiaoxin Chen** (Huang lab): Cardiomyocyte Regenerative Potential in Mammals of Extreme Longevity

**Hanna Martens** (Martens lab): The Mechanisms and Mechanics of Aging

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### 10:35 am Coffee Break

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### 10:50 am Judy Campisi Keynote Lectures – Chair: Danica Chen

**Vera Gorbunova**: Mechanisms of longevity: from whales to bats

**Dena Dubal**: Longevity and Brain Resilience

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### 12:00 am Lunch (set up posters)

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### 1:00 pm Brain Aging – Chair: Hao Li

**Carlos Galicia Aquirre** (Ellerby Lab): snRNAseq analysis of hippocampus with senescent cell removal

**Heeun Jang** (Garrison Lab): Neural circuit defects underlying dehydration risk in aged mice

**Luke Fischer** (Grinberg lab): Tackling Selective Neuronal Vulnerability: Subnuclei Involvement of Amygdala-Predominant Lewy Body Disease in Early-onset Alzheimer's Disease

**Gregory Mohl** (Kampmann lab): Pathogenic Tau Perturbs Axon Morphology

**Andrew Ambrose** (Arkin lab): Validating Caspase-6 as a Target for Tauopathy Intervention

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### 2:20 pm Coffee Break

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### 2:35 pm Metabolism and Aging – Chair: Jonathan Long

**Kwamina Nayme** (Monther Abu-Remaileh lab): From Enzyme Discovery to Therapeutic Insights: Exploring bis(monoacylglycero)phosphate (BMP) Regulation and its Significance in Age-Related Disease

**Shaneice Mitchell** (Jaiswal lab): The role of inflammation in tractable human-derived models of clonal hematopoiesis

**Madison Lehmer** (Zoncu Lab): Lysosomal Effects on Mitochondrial Health in Degenerative Diseases

**Wei Wei** (Long lab): A novel taurine metabolism pathway in physiology and aging

**Jason Miklas** (Brunet lab): Identifying the intestine secretome and its role in lifespan.

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### 4:00 pm Poster Session/Reception

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