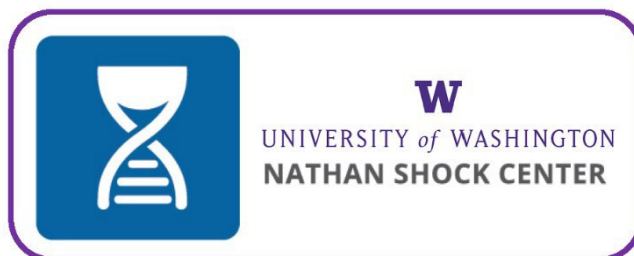


# 2024 NIA Annual Summer Training Course in Experimental Aging Research

September 8-13, 2024

Hosted at the University of Washington, Seattle, WA

*Supported by NIA Grant R13 AG059431 & Co-Sponsored by the Glenn Foundation*



## Program Faculty

Alessandro Bitto	University of Washington	Jose Garcia	VA Puget Sound, University of Washington
Alex Mendenhall	University of Washington	Laura Niedernhofer	University of Minnesota Medical School
Ann Chiao	Oklahoma Medical Research Foundation	Malene Hansen	Buck Institute
Anthony Molina	University of California- San Diego	Mariya Sweetwyne	University of Washington
Christy Carter	NIA/NIH	Paul Crane	University of Washington Medical Center
Daniel Promislow	Tufts University	Pankaj Kapahi	Buck Institute
Dave Marcinek	University of Washington	Sean Gibbons	Institute for Systems Biology, University of Washington
Jessica Young	University of Washington	Su-In Lee	University of Washington

<b>Speaker</b>	<b>Faculty Reviewers Assigned</b>	<b>Trainee Reviewers Assigned</b>
<b>Milos Marinkovic; University of Texas Health, San Antonio</b>	Marcinek, Chiao	Van Schaik, Huang
<b>Wanbao Yang; Texas A&amp;M University</b>	Sweetwyne, Promislow	Cobham, Harry
<b>Zach Hettinger; Oklahoma Medical Research Foundation</b>	Hansen, Sweetwyne	Yang, Hibbert
<b>Ansa Cobham; Stowers Institute for Medical Research</b>	Marcinek, Promislow	Salimi, Harry
<b>Brian Harry; University of Michigan Medical School</b>	Bitto, Marcinek	Cobham, Salimi
<b>Shabnam Salimi; University of Washington</b>	Chiao, Garcia	Hettinger, Marinkovic
<b>Blanca Equihua-Felix; The Scripps Research Institute</b>	Lee, Garcia	Singh, Valencia
<b>Lindsey Hayes; University of Oklahoma Health Sciences Center</b>	Young, Molina	Huang, Sureshchandra
<b>Katherine Van Schaik; Vanderbilt University Medical Center</b>	Lee, Promislow	Valencia, Equihua-Felix
<b>Suhas Sureshchandra; University of California- Irvine</b>	Mendenhall, Young	Kobak, Monroe
<b>Jamie Hibbert; University of Wisconsin-Madison</b>	Marcinek, Bitto	Lee, Yang
<b>Celina Valencia; University of Arizona</b>	Gibbons, Hansen	Van Schaik, Singh
<b>Blake Monroe; University of Minnesota</b>	Niedernhofer, Young	Englund, Denghan
<b>Shijiao Huang; Kansas State University</b>	Mendenhall, Molina	Hayes, Lee
<b>Jae Ho Lee; Stanford University</b>	Mendenhall, Hansen	Hettinger, Denghan
<b>Namrata Singh; University of Washington</b>	Lee, Gibbons	Smith, Equihua-Felix
<b>Kamil Kobak; Oklahoma Medical Research Foundation</b>	Garcia, Bitto	Englund, Smith
<b>Charlotte Smith; University of California- Davis</b>	Chiao, Marcinek	Kobak, Hibbert
<b>Davis Englund; Mayo Clinic</b>	Niedernhofer, Sweetwyne	Marinkovic, Monroe
<b>Ishmael Dehghan; University of Texas Southwestern Medical Center</b>	Niedernhofer, Gibbons	Hayes, Sureshchandra

\*Trainee Presentations in **BOLD**

Date/Time	Event/Topic	Speaker/Institution	Location
<b>Sunday, 9/8/2024</b>			
6:00p-9:00p	Welcome Reception		Cactus SLU
<b>Monday, 9/9/2024</b>			
7:30a-8:30a	Breakfast		Brotman Lobby
8:30a-8:40a	Welcome/Logistics	Marcinek/Young/Anderson; University of Washington	Brotman Auditorium
8:40a-10:10a	Dog Aging Project/Metabolism	Daniel Promislow; Tufts University	Brotman Auditorium
10:10a-10:20a	Coffee Break		Brotman Lobby
10:20a-11:00a	<b>Extracellular matrix SkM-osteoblast crosstalk - mice</b>	<b>Milos Marinkovic; University of Texas Health, San Antonio</b>	Brotman Auditorium
11:00a-11:40a	<b>Inflammaging and glucose homeostasis - mice</b>	<b>Wanbao Yang; Texas A&amp;M University</b>	Brotman Auditorium
11:40a-12:30p	Lunch		Brotman Lobby
12:30p-1:30p	NIA Grants Mechanism	Christy Carter; NIA/NIH	Brotman Auditorium
1:30p-2:10p	<b>FAPs mRNA transcriptional regulation by methylation in SkM</b>	<b>Zach Hettinger; Oklahoma Medical Research Foundation</b>	Brotman Auditorium
2:10p-3:00p	<b>Mitochondrial aging in long-lived cavefish</b>	<b>Ansa Cobham; Stowers Institute for Medical Research</b>	Brotman Auditorium
4:30p	Shuttle from Hotel		Level Hotel SLU
5:25p-7:00p	Harbor Cruise		Argosy Cruises
7:00p-9:00p	Dinner		Kell's Irish Pub
9:00p	Shuttle to Hotel		Kell's Irish Pub
<b>Tuesday, 9/10/2024</b>			
7:30a-8:30a	Breakfast		Brotman Lobby
8:30a-10:00a	Clinical perspective-endocrinology and sarcopenia	Jose Garcia, VA Puget Sound, University of Washington	Brotman Auditorium

10:00a-10:10a	Coffee Break		Brotman Lobby
10:10a-10:50a	<b>Metabolism in slow aging mice - glycosylphosphatidylinositol phospholipase D1 (GPLD1)</b>	<b>Brian Harry; University of Michigan Medical School</b>	Brotman Auditorium
10:50a-11:30a	<b>Metabolomics doxo induced SkM dysfunction - mice C2C12 cells</b>	<b>Shabnam Salimi; University of Washington</b>	Brotman Auditorium
11:30a-12:10p	<b>Depression cancer survival - AI analyses human models</b>	<b>Blanca Equihua-Felix; The Scripps Research Institute</b>	Brotman Auditorium
12:10p-1:00p	Lunch		Brotman Lobby
1:00p-2:30p	Heterogeneity in Aging and/or application of C. elegans models	Alex Mendenhall; University of Washington	Brotman Auditorium
2:30p-2:40p	Coffee Break		Brotman Lobby
2:40p-3:20p	<b>Prenatal stress and microglial aging</b>	<b>Lindsey Hayes; University of Oklahoma Health Sciences Center</b>	Brotman Auditorium
3:20p-4:00p	<b>Epigenetics and osteoporosis - Deep learning, machine quantitative analyses</b>	<b>Katherine Van Schaik; Vanderbilt University Medical Center</b>	Brotman Auditorium
4:10p-5:00p	<b>Immune aging vaccine response human primary cells</b>	<b>Suhas Sureshchandra; University of California-Irvine</b>	Brotman Auditorium
6:00p-7:00p	Dinner		Building C Lobby
7:00p-7:45p	Grant Writing	Malene Hansen; Buck Institute	Building C Lobby
<b>Wednesday, 9/11/2024</b>			
7:30a-8:30a	Breakfast		Brotman Lobby
8:30a-10:00a	Autophagy	Malene Hansen; Buck Institute	Brotman Auditorium
10:00a-10:10a	Coffee Break		Brotman Lobby
10:10a-10:50a	<b>SkM proteostasis, mTORC, resistanc exercise - mice</b>	<b>Jamie Hibbert; University of Wisconsin-Madison</b>	Brotman Auditorium

10:50a-11:30a	<b>Chemotherapy induced cognitive impairment - epi analyses of existing data</b>	<b>Celina Valencia; University of Arizona</b>	Brotman Auditorium
11:30a-12:10p	<b>Lipid derived electrophiles in senescence induction - human cell culture</b>	<b>Blake Monroe; University of Minnesota</b>	Brotman Auditorium
12:10p-1:00p	Lunch		Brotman Lobby
1:00p-2:30p	Cell Metabolism and Neurodegeneration	Anthony Molina; University of California- San Diego	Brotman Auditorium
2:30p-2:40p	Coffee Break		Brotman Lobby
2:40p-3:20p	<b>Neural modulating drugs in C elegans</b>	<b>Shijiao Huang; Kansas State University</b>	Brotman Auditorium
3:20p-4:00p	<b>Aberrant translation - yeast</b>	<b>Jae Ho Lee; Stanford University</b>	Brotman Auditorium
4:10p-5:10p	Cardiac Aging	Ann Chiao; Oklahoma Medical Research Foundation	Brotman Auditorium
6:00p-7:00p	Dinner		Building C Lobby
7:00p-7:45p	ACT Study and Resource	Paul Crane; University of Washington Medical Center	Building C Lobby
<b>Thursday, 9/12/2024</b>			
7:30a-8:30a	Breakfast		Brotman Lobby
8:30a-10:00a	Microbiome/systems biology	Sean Gibbons; Institute for Systems Biology, University of Washington	Brotman Auditorium
10:00a-10:10a	Coffee Break		Brotman Lobby
10:10a-10:50a	<b>Blood aging biomarkers rheumatoid arthritis - clinical samples/clinician</b>	<b>Namrata Singh; University of Washington</b>	Brotman Auditorium
10:50a-11:30a	<b>Sarcopenia and HFpEF mice</b>	<b>Kamil Kobak; Oklahoma Medical Research Foundation</b>	Brotman Auditorium
11:30a-12:10a	<b>Sex-specific and risk factors for atrial fibrillation</b>	<b>Charlotte Smith; University of California-Davis</b>	Brotman Auditorium
12:10p-1:00p	Lunch		Brotman Lobby

1:00p-2:30p	DNA damage and senescence	Laura Niedernhofer; University of Minnesota Medical School	Brotman Auditorium
2:30p-2:40p	Coffee Break		Brotman Lobby
2:40p-3:20p	<b>Sepsis and senescence cells in SkM humans</b>	<b>Davis Englund; Mayo Clinic</b>	Brotman Auditorium
3:20p-4:00p	<b>cGAS/STING Inflammaging mice</b>	<b>Ishmael Dehghan; University of Texas Southwestern Medical Center</b>	Brotman Auditorium
4:10p-5:10p	XAI in aging	Su-In Lee; University of Washington	Brotman Auditorium
6:00p-7:00p	Dinner		Building C Lobby
7:00p-7:30p	Judy Campisi in Memoria	Pankaj Kapahi; Buck Institute	Building C Lobby
<b>Friday, 9/13/2024</b>			
7:30a-8:30a	Breakfast		Brotman Lobby
8:30a-10:00a	Metabolism and Aging	Alessandro Bitto; University of Washington	Brotman Auditorium
10:00a- 10:55a	Kidney Aging/Consideration for Drug Toxicity and Dosing	Mariya Sweetwyne; University of Washington	Brotman Auditorium
10:55a- 12:00p	Mechanisms of Neurodegeneration	Jessica Young; University of Washington	Brotman Auditorium
12:00p	Lunch		Brotman Lobby

**Addresses:**

Level Hotel SLU- 110 Boren Ave N, Seattle, WA 98109

Cactus SLU- 350 Terry Ave N, Seattle, WA 98109

Argosy Cruises- 1101 Alaskan Way, Seattle, WA 98101

Kell's Irish Pub- 1916 Post Aly, Seattle, WA 98101

SLU Campus- 850 Republican St, Seattle, WA 98109