

2024 UAB Aging Research Symposium

March 11-12, 2024
UAB Alumni House



Co-organized by:

March 11, 2024

UAB Alumni House

- 7:30-8:30 am **Registration and Continental Breakfast**
- 8:30-8:35 am **Welcome**
Thomas Buford, PhD
Professor and Associate Dean
Co-Director, UAB Nathan Shock Center of Excellence in the Basic Biology of Aging
Director, UAB Center for Exercise Medicine
The University of Alabama at Birmingham
- SESSION I:** ***Diversive models of biological aging***
Chair:
Steven Austad, PhD
Distinguished Professor
Protective Life Endowed Chair in Healthy Aging Research
Co-Director, UAB Nathan Shock Center of Excellence in the Basic Biology of Aging
The University of Alabama at Birmingham
- 8:35 – 9:35 am ***KEYNOTE PRESENTATION***
Joao Passos, Ph.D.
Professor
Mayo Clinic
“Mitochondria and Cell Senescence: A Matter of Life and Death”
- 9:35-10:00 am **Abbi Hernandez, Ph.D.**
Assistant Professor
The University of Alabama at Birmingham
“Metabolism and the Gut-Brain-Axis in Aging and Alzheimer’s Disease”
- 10:00-10:25 am **Daniella Chusyd, Ph.D.**
Assistant Professor
Indiana University Bloomington
“Trunks Up: Elephants for Aging Research”
- 10:25-10:45 am **BREAK**
- 10:45-11:10 am **Scott Ballinger, Ph.D.**
Professor and Associate Dean
Co-Leader UAB Nathan Shock Center Comparative Mitochondrial
Health Assessment Core
The University of Alabama at Birmingham

“A Quantitative Assay for Determining Mitochondrial DNA Derived Damage Associated Molecular Pattern (DAMP) Levels in Humans and Rodents”

11:10-11:35 am

Stanislava Chtarbanova, Ph.D.

Assistant Professor

The University of Alabama Tuscaloosa

“As Time Flies By: Studying the Impact of Aging on *Drosophila* Antiviral Defenses”

11:35-11:50 am

ELEVATOR PITCH

- **Dean Bunnell**, Graduate Student

The University of Alabama Tuscaloosa

“Evaluating Flock House virus genome changes after replication in young and aged *Drosophila melanogaster*”.

- **Osagie Emokpae**, Graduate Student

The University of Alabama Tuscaloosa

“Sub-neurotoxic exposure to ethyl acetate fraction of soil bacterium metabolite promotes longevity in *C. elegans*”.

- **Tate Lasher**, Graduate Student

The University of Alabama at Birmingham

“Hypoglycemia and impaired glucagon response in a transgenic mouse model of tauopathy”.

- **Angad Yadav, PhD**, Postdoctoral Fellow

The University of Alabama at Birmingham

“Glutamine availability impacts skeletal muscle progenitor cell state transition via Mito-Nuclear communication with advancing age”.

11:50-12:10 pm

Christy Carter, Ph.D.

Health Scientist Administrator

Division of Aging Biology (DAB)

National Institute on Aging (NIA) | National Institutes of Health (NIH)

Overview of training at NIA and DAB priority for funding

12:10 AM – 1:10 pm

LUNCH & NETWORKING

SESSION II:

Circadian and nutritional-based intervention for maintaining healthy aging

Chair:

Girish Melkani, PhD

Associate Professor

Co-Leader UAB Nathan Shock Center Comparative Organismal

Energetics Core

The University of Alabama at Birmingham

KEYNOTE PRESENTATION

Rozalyn Anderson, Ph.D.

Professor of Medicine

University of Wisconsin-Madison

School of Medicine and Public Health

“Aging & Delayed Aging by Caloric Restriction”

2:10-2:35 pm

Girish Melkani, Ph.D.

“Chronobiology of Lipid Modulation: Discovering the Role of Time-Restricted Feeding in Aging and Metabolic Disorders”

2:35-3:00 pm

Courtney Peterson, Ph.D.

Associate Professor

The University of Alabama at Birmingham

“Effects of Time-Restricted Eating on Primary and Secondary Aging in Humans”

3:00-3:20 pm

BREAK

3:20-3:45 pm

Martin Young, Ph.D.

Professor

The University of Alabama at Birmingham

“Circadian Control of Cardiac Physiology and Pathophysiology”

3:45-4:10 pm

Karen Gamble, Ph.D.

Professor, F. Cleveland Kinney Endowed Chair in Geriatric Psychiatry

The University of Alabama at Birmingham

“Salty Secrets: Impact of High Salt Diet on the Primary Circadian Clock”

4:10-4:15pm

Closing Remarks

Steven Austad, PhD

Alys Stephens Center

4:30-6:30 pm

POSTER SESSION and RECEPTION

March 12, 2024

UAB Alumni House

7:30-8:30 am **Registration and continental breakfast**

8:30-8:40 am **Welcome**

Ken Boockvar, MD, MS

Professor, Department of Medicine, Division of Gerontology, Geriatrics, and Palliative Care

Gwen McWhorter Endowed Chair in Geriatric Medicine

Director, UAB Integrative Center for Aging Research

The University of Alabama at Birmingham

Seth Landefeld, MD

Professor and Chair of the Department of Medicine

The University of Alabama at Birmingham

SESSION I: ***Cutting Edge Research***

Chair

Ken Boockvar, MD, MS

8:45 – 9:45 am ***KEYNOTE PRESENTATION***

Stephanie Studenski, RN, MD, MPH

Professor Emeritus, University of Pittsburgh

“There’s Something in the Way they Move: Aging and Mobility”

9:45-10:05 am **BREAK**

10:10-10:55 am **FLASH TALK**

- **Zahra Bassiri**, Graduate Student

The University of Alabama Tuscaloosa

“Subsensory Electrical Noise Stimulation Enhances Postural Control During Visual Perturbations in Older Adults”

- **George C. Ling, MD**, Resident

The University of Alabama at Birmingham

“Dynamics of Dominant Default Mode Network Linked to Processing Speed in Cognitively Healthy Oldest-Old”

- **Korijna Valenti, PhD, IPCC, MS**, Instructor

The University of Alabama at Birmingham

“Experiences with culturally based values and preferences for clinician communication and care with lesbian and bisexual older women with serious illness & their care partners”

- **Belinda Williams, MD**, Postdoctoral Fellow

The University of Alabama at Birmingham

“Lower Urinary Tract Symptoms and Cognitive Impairment among Participants in the REasons for Geographic and Racial Differences in Stroke Cohort Study”

- **Chunhong Xiao, PhD, RN**, Postdoctoral Fellow
The University of Alabama at Birmingham
“Care-resistant Behavior Trajectories in the Context of Mouth Care of Persons Living with Dementia in Nursing Homes”

- 10:55-11:20 am **Alayne Markland, DO, MSc**
Professor, UAB Division of Gerontology, Geriatrics and Palliative Care
Birmingham VAHCS Director, Birmingham/Atlanta Geriatric Research, Educational, and Clinical Center (GRECC)
“Improving Access to Urinary Incontinence Treatments through Mobile Health Technology”
- 11:25-11:50 am **Virginia Howard, PhD, FAHA, FSCT**
Distinguished Professor of Epidemiology, UAB School of Public Health
“Recruiting and Retaining Diverse Participants in Longitudinal Studies of Aging and Health - It Takes a Village, \$\$\$ and Advance Planning”
- 12:00-1:00 pm **LUNCH & NETWORKING**
- 1:00-1:05 pm **Afternoon Welcome**
Christopher S. Brown, PhD
Vice President for Research
The University of Alabama at Birmingham
- SESSION II:** *Community & Society*
Chair:
Alayne Markland, DO, MSc
- 1:05-2:05 pm **KEYNOTE PRESENTATION**
Dr. John Beard
Professor, Columbia University
Director, International Longevity Center-USA
“Beyond the absence of disease”
- 2:05-2:25 pm **BREAK**
- 2:30-2:55 pm **Pamela Bowen, PhD, CRNP, FNP-BC, BBA**
Associate Professor, Acute, Chronic and Continuing Care Department
UAB School of Nursing
Co-Investigator and Clinical Director, Evelyn F. McKnight Brain Institute at UAB
Brain Health Advocacy Mission (BHAM): Improving Brain Health Through Primary Care
- 3:00-4:00 pm **PANEL – Future of Aging Research**
Moderators: Dr. Ken Boockvar
Panelists: Dr. Steve Austad, Dr. John Beard, Dr. Pamela Bowen, Dr. Stephanie Studenski
- 4:00 pm **CLOSING REMARKS**
Dr. Ken Boockvar and Dr. Steve Austad