AGING SYMPOSIUM
FROM CHROMOSOMES TO COMMUNITIES: INTEGRATING AGING RESEARCH

October 9-10, 2019
UAB Alumni House
Welcome to the UAB Aging Symposium, From Chromosomes to Communities: Integrating Aging Research! We are excited that you are here. Our hope is that this year’s symposium offers fresh and exciting ideas, and an opportunity to develop new collaborations to integrate all the different disciplines for the advancing of aging research.

**Steven Austad, PhD**  
Distinguished Professor & Chair  
Director, UAB Nathan Shock Center of Excellence in the Basic Biology of Aging  
UAB Department of Biology

**Cynthia J. Brown, MD, MSPH, AGSF**  
Professor of Medicine and Director, Division of Gerontology, Geriatrics, and Palliative Care  
Comprehensive Center for Healthy Aging  
UAB Department of Medicine

**Erik Roberson, MD, PhD**  
Patsy W. and Charles A. Collat Professor of Neuroscience  
Director, Alzheimer’s Disease Center  
Director, Center for Neurodegeneration and Experimental Therapeutics  
Associate Director, Evelyn F. McKnight Brain Institute  
UAB Departments of Neurology and Neurobiology

**Ronald M. Lazar, PhD, FAHA, FAAN**  
Evelyn F. McKnight Endowed Chair  
Professor of Neurology  
Director, Evelyn F. McKnight Brain Institute at UAB  
Director, Division of Neuropsychology
# AGENDA

**October 9, 2019**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:30 – 8:00 AM</td>
<td>REGISTRATION and CONTINENTAL BREAKFAST</td>
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<tr>
<td>8:00 – 8:10 AM</td>
<td>WELCOME and PLENARY SPEAKER INTRODUCTION</td>
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<tr>
<td></td>
<td>Christopher Brown, PhD</td>
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<td>8:10 – 9:00 AM</td>
<td>PLENARY TALK</td>
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<td>Richard Hodes, MD</td>
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<td><em>From Bench to Bedside: Exploring the Research Continuum at NIA</em></td>
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**Session I: Disparities**

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<tr>
<th>Time</th>
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<tr>
<td>9:00 – 9:05 AM</td>
<td>Session Chair: Cynthia J. Brown, MD, MSPH, AGSF</td>
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<tr>
<td>9:05 – 9:55 AM</td>
<td>KEYNOTE SPEAKER</td>
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<tr>
<td></td>
<td>Peggye Dilworth-Anderson, PhD</td>
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<td><em>Academic and Community Partnerships: Creating Processes of Readiness and Sustainability</em></td>
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<tr>
<td>9:55 – 10:20 AM</td>
<td>BREAK</td>
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<tr>
<td>10:20 – 10:45 AM</td>
<td>Virginia Howard, PhD</td>
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<td><em>Early Life Contributions to Later Life Health Disparities</em></td>
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<td>10:45 – 11:10 AM</td>
<td>Mona Fouad, MD, MPH</td>
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<td><em>Community-Based Approaches to Address Health Disparities</em></td>
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<td>11:10 – 11:30 AM</td>
<td>DATA BLITZ</td>
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<tr>
<td></td>
<td>David Drummer *refer to page 21 for his abstract</td>
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<tr>
<td></td>
<td>Kaleen Lavin *refer to page 31 for her abstract</td>
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<td></td>
<td>Katherine Kruckow *refer to page 29 for her abstract</td>
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<tr>
<td>11:30 – 12:30 PM</td>
<td>LUNCH</td>
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**Session II: CELL SENESCENCE**

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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>12:30 – 12:35 PM</td>
<td>Session Chair: Erik Roberson, MD, PhD</td>
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<tr>
<td>12:35 – 1:25 PM</td>
<td>KEYNOTE SPEAKER</td>
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<td>Darren Baker, PhD</td>
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<td></td>
<td><em>From chromosome misegregation tumor models to senescence in age-related disease</em></td>
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<td>1:25 – 1:35 PM</td>
<td>BREAK</td>
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<tr>
<td>1:35 – 2:00 PM</td>
<td>Melissa Harris, PhD</td>
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<td><em>Using mouse models of hair graying to discover novel stem cell-related mechanisms that contribute to variation in aging phenotypes.</em></td>
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<td>2:00 – 2:25 PM</td>
<td>Victor Thannickal, MD</td>
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<td><em>Targeting Cellular Senescence in Idiopathic Pulmonary Fibrosis.</em></td>
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AGENDA

2:25 – 2:35 PM  DATA BLITZ
   Hunter Dean *refer to page 20 for his abstract
   Mackenzie Fowler *refer to page 23 for her abstract

2:35 – 2:50 PM

Session III: Resilience
2:50 – 2:55 PM  BREAK with REFRESHMENTS

2:55 – 3:45 PM  Session Chair: Steven Austad, PhD

   KEYNOTE SPEAKER
   Luigi Ferrucci, MD, PhD
   Longitudinal Study Section, Clinical Research Branch, National Institute on Aging

3:45 – 3:55 PM

3:55 – 4:20 PM  BREAK

4:20 – 4:45 PM  Jeremy Herskowitz, PhD
   Synaptic Resilience to Alzheimer’s disease

4:45 – 4:55 PM  Cynthia J. Brown, MD, MSPH, AGSF
   Life-Space Mobility as a Measure of Resilience

   DATA BLITZ
   Mary Bell *refer to page 17 for her abstract

4:55 – 5:00 PM  Zongliang Yue *refer to page 51 for his abstract

REMARKS

5:00 PM  Erik Roberson, MD, PhD

   TRAVEL TIME and TRANSPORTATION *
   The Florentine Building, 2nd floor Ballroom
   2101 2nd Ave N, Birmingham, AL 35203

Poster Session & Reception
6:00 – 8:30 PM

8:30 PM  RECEPTION and POSTER SESSION

8:45 PM  POSTER AWARDS

   Cynthia J. Brown, MD, MSPH, AGSF

   TRANSPORTATION TO HOTEL FOR OUT-OF-TOWN GUESTS ARRIVES*
**October 10, 2019**  
7:30 – 8:00 AM  
REGISTRATION FOR NEW ATTENDEES and CONTINENTAL BREAKFAST

**Session IV: Systematic Sources of Inflammation**

8:00 – 8:05 AM  
Session Chair: Ronald M. Lazar, PhD, FAHA, FAAN

8:05 – 8:55 AM  
**KEYNOTE SPEAKER**  
Costantino Iadecola, MD  
*Neurovascular pathways to cognitive impairment: from bench to bedside*

8:55 – 9:25 AM  
**Thomas Buford, PhD**  
*Connections between the renin-angiotensin system, gut microbiome, and age-related disability*

9:25 – 9:55 AM  
**Carlos Orihuela, PhD**  
*Inflammaging contributes to age-dependent macrophage dysfunction*

9:55 – 10:15 AM  
BRAK

**NIH Panel Discussion:**

10:15 – 11:45AM  
Panel Moderator: Steven Austad, PhD  
**NIH Panel: John Haaga, PhD, Evan Hadley, MD, Max Guo, PhD**

11:45 - 11:55 AM  
CLOSING REMARKS and ADJOURN  
Steven Austad, PhD

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*The schedule for complimentary transportation to symposium sessions for out of town guests is below:*

**Shuttle from Homewood Suites to Alumni House**  
Shuttle departing at 7:15 and 7:30 AM both mornings

**Shuttle from Alumni House to Poster Session**  
Bus will begin loading at 5:15 PM

**Shuttle from Poster Session to Homewood Suites**  
Bus will begin loading at 8:45 PM