

POWER OF PRECISION AGING APPROACHES  
TO BRAIN HEALTH & COGNITION

**March 23 – 25, 2022**

Westin La Paloma Resort, Tucson, Arizona

**Wednesday March 23, 2022**

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12:00 – 5:00 PM	MBRF Board Meeting, <i>Sunatons Room, Lobby Level</i>
1:00 – 6:00 PM	Registration, <i>Sonoran Foyer, Lobby Level</i>
5:30 – 7:30 PM	Opening Reception and Dinner <i>Terrace Level Foyer and Patio</i>
6:00 PM	<i>Welcome Remarks</i> <b>Carol A. Barnes, Ph.D.</b> Director, Evelyn F. McKnight Brain Institute Evelyn F. McKnight Chair for Learning and Memory in Aging Regents Professor, Psychology, Neurology and Neuroscience University of Arizona  <b>Robert C. Robbins, M.D.</b> 22 <sup>nd</sup> President of the University of Arizona  <b>JP Roczniak</b> President and CEO, University of Arizona Foundation  <b>Michael L. Dockery, M.D.</b> Chair, McKnight Brain Research Foundation

**Thursday March 24, 2022**

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7:30 – 8:40 AM	Breakfast <i>Murphey Room, Terrace Level West</i>
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8:45 – 9:10 AM	<p>Opening Remarks and Welcome <i>Sonoran II, Lobby Level West</i></p> <hr/> <p><b>Lee Ryan, Ph.D.</b> Associate Director, Evelyn F. McKnight Brain Institute, University of Arizona Professor and Head, Psychology Department, University of Arizona</p> <p><b>Elizabeth Cantwell, Ph.D.</b> Senior Vice President for Research and Innovation University of Arizona</p>
9:10 AM	<p><i>Overview of Meeting Structure</i></p> <p><b>Carol Barnes, Ph.D.</b> Director, Evelyn F. McKnight Brain Institute, University of Arizona</p>
9:20 AM	<p><i>Lessons learned from Precision Medicine that apply to Precision Aging.</i></p> <p><b>Roberta Diaz Brinton, Ph.D.</b> Director, UA Center for Innovation in Brain Science Regents Professor, Pharmacology and Neurology University of Arizona</p>
9:50 AM	<p><i>Break</i></p>
10:20 – 11:10 AM	<p><i>The importance of centering diversity in cognitive aging research.</i></p> <p><b>Keynote Speaker</b> <b>Lisa Barnes, Ph.D.</b> The Alla V. and Solomon Jesmer Professor of Gerontology and Geriatric Medicine, Department of Neurological Sciences Rush Medical College</p>
11:10 – 11:20 AM	<p>Discussion</p>
11:20 – 12:20 PM	<p>Novel methods for recruiting and retaining diverse participants for studies of brain and cognitive aging.</p> <p><b>Moderator: Bonnie Levin, Ph.D.</b></p> <hr/>
11:20 – 11:30 AM	<p><i>MindCrowd and Mobile Minds: Enhancing recruitment via electronic and mobile lab approaches</i></p> <p><b>Matt Huentelman, Ph.D.</b> Professor Neurogenomics Division The Translational Genomics Research Institute</p>
11:30 – 11:35 AM	<p>Discussion</p>

- 11:35 – 11:45 AM *Creative recruiting strategies, and successes*  
**Tatjana Rundek, M.D., Ph.D., FAAN**  
 Professor of Neurology  
 Scientific Director, Evelyn F. McKnight Brain Institute  
 University of Miami Miller School of Medicine
- 11:45 – 11:50 AM Discussion
- 11:50 – 12:00 PM *Recruiting and retaining diverse participants for studies of brain and cognitive aging: It takes a village, \$\$, and advance planning*  
**Virginia Howard, Ph.D.**  
 Distinguished Professor of Epidemiology  
 University of Alabama at Birmingham
- 12:00 – 12:05 PM Discussion
- 12:05 – 12:15 PM *Engagement and Recruitment of Minority Participants – Lessons from the All of Us Program Research*  
**Tomas Nuno, Ph.D.**  
 Assistant Research Professor  
 Department of Epidemiology and Biostatistics  
 University of Arizona
- 12:15 – 12:20 PM Discussion
- 12:20 – 1:40 PM Lunch  
*Murphey Room, Terrace Level West*
- 1:45 – 2:35 PM *Why do some people show resistance to cognitive aging?*  
**Keynote Speaker**  
**Emily Rogalski, Ph.D.**  
 Professor of Psychiatry and Behavioral Sciences  
 Northwestern University
- 2:35 – 2:45 PM Discussion
- 2:45 – 3:15 PM *Break*
- 3:15 – 4:15 PM Genetic and epigenetic contributions to individual differences in aging.  
**Moderator: Erik Roberson, M.D.**
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- 3:15 – 3:25 PM *Role of epigenetics in cognitive decline*  
**Tom Foster, Ph.D.**  
 Professor of Neuroscience  
 Evelyn F. McKnight Chair for Research on Cognitive Aging and Memory

University of Florida

3:25 – 3:30 PM

Discussion

3:30 – 3:40 PM

*Long noncoding RNAs in aging and memory decline*

**Farah Lubin, Ph.D.**

Associate Professor Neurobiology  
University of Alabama at Birmingham

3:40 – 3:45 PM

Discussion

3:45 – 3:55 PM

*Biological clocks in families*

**Susan Blanton, Ph.D.**

Professor Human Genetics and Otolaryngology  
University of Miami

3:55 – 4:00 PM

Discussion

4:00 – 4:10 PM

*Synapse health in cognitive aging: central roles for microglial regulation of the extracellular matrix?*

**Daniel T Gray, Ph.D.**

Postdoctoral Scholar

Awardee, MBRF/AFAR Innovator Award in Cognitive Aging and Memory Loss  
UCLA

4:10 – 4:15 PM

Discussion

4:15 – 5:00 PM

*Panel: Next steps to make solutions for optimizing cognitive health a reality – or “how to take our science out of the lab and make it useful for people”.*

**Moderator: Lee Ryan, Ph.D.**

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- **Meredith Hay, Ph.D.**, Professor of Physiology, University of Arizona
- **Ralph Sacco, M.D., M.S., FAHA, FAAN**, Professor of Neurology, University of Miami
- **Ron Lazar, Ph.D., FAAN**, Professor of Neurology & Neurobiology, U. Alabama at Birmingham
- **Russ Bauer, Ph.D.**, Professor, Department of Neurology, University of Florida

5:30 – 7:30 PM

Casual Reception and Dinner  
*Fiesta Area*

This will be informal, and outside

## Friday March 25, 2022

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- 7:00 – 8:30 AM Breakfast and checkout  
*Murphey Room, Terrace Level West*
- 7:30 – 8:30 AM Board meeting, Trustees, Leadership Council  
*Cottonwood, Mezzanine Level*
- 8:15 – 8:30 AM Load buses for departure to campus
- 8:45 AM Buses depart for University of Arizona  
*Environment and Natural Resources 2 Building, Room S-107*
- 9:30 – 10:45 AM *Data Blitz on updates on collaborative projects, pilot projects and new findings*  
**Moderator: Jen Bizon, Ph.D.**
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- 9:00 – 9:05 AM *The McKnight Brain Aging Registry (MBAR): an update*  
**Kristina Visscher, Ph.D.**  
Associate Professor  
Department of Neurobiology  
Heersink School of Medicine, University of Alabama at Birmingham
- 9:05 – 9:10 AM Discussion
- 9:10 – 9:15 AM *Sleep and cognition in Hispanic Community Health Study – Study of Latinos (HCHS-SOL)*  
**Christian Agudelo, M.D.**  
McKnight Cognitive Neurology Fellow  
Department of Neurology, Miller School of Medicine, University of Miami
- 9:15 – 9:20 AM Discussion
- 9:20 – 9:25 AM *Biopsychosocial Correlates of Successful Cognitive Aging with HIV*  
**Pariya Fazeli Wheeler, Ph.D.**  
Assistant Professor, School of Nursing, University of Alabama at Birmingham
- 9:25 – 9:30 AM Discussion
- 9:30 – 9:35 AM *Investigating mediators of exercise-related neuroprotection in mouse models*  
**Karina Alviña, Ph.D.**  
Research Assistant Professor of Neurosciences  
University of Florida

9:35 – 9:40 AM	Discussion
9:40 – 10:05 AM	<i>Break</i>
10:05 – 10:10 AM	<p><i>The impact of COVID-19 respiratory severity and levels of NFL on cognitive performance among older adults.</i></p> <p><b>Justin Palmer</b>  Graduate Student  Department of Psychology  University of Arizona</p>
10:10 – 10:15 AM	Discussion
10:15 – 10:20 AM	<p><i>Reuniting the Brain and Body to Understand Cognitive Aging: The Nexus of Geroscience and Neuroscience</i>  (new McKnight pilot project recipient)</p> <p><b>Abbi Hernandez, Ph.D.</b>  Postdoctoral Fellow  Department of Medicine  University of Alabama at Birmingham</p>
10:20 – 10:25 AM	Discussion
10:25 – 10:30 AM	<p><i>Decreasing Cognitive Loss and Vascular Rarefaction with Exercise</i>  (new McKnight pilot project recipient)</p> <p><b>Amani Norling, M.A., B.C.B.A.</b>  University of Alabama at Birmingham</p>
10:30 – 10:35 AM	Discussion
10:35 – 10:40 AM	<p><i>The neuroscience of phishing email detection and learning who to trust</i>  (past McKnight pilot recipient)</p> <p><b>Bob Wilson, Ph.D.</b>  Associate Professor, Department of Psychology  University of Arizona</p>
10:40 – 10:45 AM	Discussion
10:45 – 11:00 AM	<p><i>Closing Remarks</i></p> <p><b>Carol A. Barnes, Ph.D.</b>  Director, Evelyn F. McKnight Brain Institute, University of Arizona</p> <p><b>Molly V. Wagster, Ph.D.</b>  Chief, Behavioral &amp; Systems Neuroscience Branch  Division of Neuroscience</p>

National Institute on Aging

**Michael L. Dockery, M.D.**

Chair, McKnight Brain Research Foundation

11:15 AM

Travelers pick up box lunches and navigate to the airport transport buses