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| G:\McKnight\Logos\MBRF universal logo final.jpg | **Tenth McKnight**  **Inter-Institutional Meeting**  **Birmingham, Alabama**  **April 4 – 6, 2018** |

**Wednesday, April 4, 2018**

1:00 – 6:00 p.m. Registration: DoubleTree by Hilton – Lower Level - Foyer

6:00 - 6:30 p.m. Reception: Doubletree Hilton Hotel - Lower Level - Heritage 1

6:30 - 8:00 p.m. Dinner: Doubletree Hilton Hotel – Lower Level – Heritage 1

Welcome

**Ronald M. Lazar, PhD, FAAN, FAHA**

Evelyn F. McKnight Endowed Chair

Professor of Neurology

Director, Evelyn F. McKnight Brain Institute at UAB

Director, Division of Neuropsychology

University of Alabama at Birmingham

**J. Lee Dockery, MD**

Chair, Board of Trustees

McKnight Brain Research Foundation

**Thursday, April 5, 2018**

7:30 – 8:40 a.m. Breakfast: Doubletree Hilton Hotel – Heritage 2

8:45 - 9:00 a.m. Opening Remarks – Heritage 1

**Ronald M. Lazar, PhD, FAAN, FAHA**

Evelyn F. McKnight Endowed Chair

Director, Evelyn F. McKnight Brain Institute at UAB

University of Alabama at Birmingham

**Christopher S. Brown, PhD**

Vice President for Research

University of Alabama at Birmingham

**J. Lee Dockery, MD**

Chair, Board of Trustees

McKnight Brain Research Foundation

**SESSION I Intervention**

Location: Heritage 1 Moderator: **Carol Barnes, PhD**

9:00 – 9:15 a.m. *“Intervention Opportunities for Cognitive Decline: Report from the National Academy of Medicine”*

**Ralph Sacco, MD, MS, FAHA, FAAN**

Professor and Olemberg Chair of Neurology

Executive Director McKnight Brain Institute

Chief of Neurology Jackson memorial Hospital

Director, UM Clinical & Translational Science Institute

Senior Associate Dean for Clinical & Translational Science

Miller School of Medicine, University of Miami

President, American Academy of Neurology

9:20 – 9:45 a.m. *“Exercise is Regenerative Medicine: Impact on Aging”*

**Marcas M. Bamman, PhD, FACMS**

Professor and Center Director

Center for Exercise Medicine

University of Alabama at Birmingham

9:50 – 10:15 a.m. *“The ACT Intervention Trial”*

**Ronald Cohen, PhD, ABPP, ABCN**

Evelyn McKnight Chair of Clinical Translation in Cognitive Aging

Professor, Clinical and Health Psychology, Neurology and Psychiatry

Director, Center for Cognitive Aging and Memory

University of Florida

**Adam Woods, PhD**

Assistant Professor, Clinical and Health Psychology, Neuroscience

Assistant Director, Ctr for Cognitive Aging and Memory Clinical Trans Res

University of Florida

10:20 – 10:25 a.m. Additional Q & A

10:30 – 10:40 a.m. Break

10:40 – 11:00 a.m. *“Modifiable Risk Factors in Cognitive Aging: Influence of Vascular Health and Physical Activity”*

**Gene Alexander, PhD**

Professor

Departments of Psychology and Psychiatry

University of Arizona

11:05 - 11:25 a.m. *“Cognitive Resilience: Mechanisms and Therapeutic Windows for Memory Loss”*

**Jeremy Herskowitz, PhD**

Assistant Professor

Department of Neurology

University of Alabama at Birmingham

11:25 – 11:30 a.m. Additional Q & A

11:30 – 12:30 p.m. Lunch - Heritage 2

**KEYNOTE ADDRESS**

12:30 -1:45 p.m. *“Epigenetic Clock Analysis of Cognitive Aging”*

**Steve Horvath, PhD**

Professor, Human Genetics and Biostatistics

David Geffen School of Medicine

University of California

**SESSION II MBAR**

Location: Heritage 1 Moderator: **Tatjana Rundek, MD, PhD, FANA**

2:00 - 2:20 p.m. “*MBAR I: Clinical Update”*

**Bonnie Levin, PhD**

Bernard and Alexandria Schoninger Professor of Neurology

Director, Division of Neuropsychology

University of Miami, Miller School of medicine

2:20 - 2:40 p.m. “*MBAR II: Imaging Update”*

**Kristina Visscher, PhD**

Associate Professor

Department of Neurobiology

University of Alabama at Birmingham

2:40 – 2:45 p.m. Additional Q & A

2:45 – 3:00 p.m. Break

**SESSION III New MBI Faculty**

Location: Heritage 1 Moderator: **Ron Cohen, PhD**

3:00 – 3:12 p.m. *“Cardiac Reperfusion, Neuro-inflammation and Human Cognition”*

**Ronald M. Lazar, PhD, FAAN, FAHA**

Evelyn F. McKnight Endowed Chair

Director, Evelyn F. McKnight Brain Institute at UAB

University of Alabama at Birmingham

3:15 – 3:27 p.m. *“Novel Peptide Therapy to Treat Cognitive Impairment in Heart Disease Patients at Risk for Alzheimer’s Disease”*

**Meredith Hay, PhD**

Professor, Physiology, Psychology

Evelyn F. McKnight Brain Institute

Arizona Health Sciences Center

3:30 – 3:42 p.m. *“Cognitive, Cultural and Affective Dimensions of Frailty”*

**Katalina McInerney, PhD**

Assistant Professor – Clinical

Department of Neurology

University of Miami

**Sarah Getz, PhD**

Neuropsychology Postdoctoral Fellow

Department of Neurology

University of Miami

3:45 – 3:57 p.m. “*Exosomes: Biomarkers of Aging and Potential Mediators of Therapeutic*

*Interventions”*

**Brittney Yegla, PhD**

Post-doctoral Researcher

University of Florida

4:00 – 4:12 p.m. *“The Gut Microbiome: A Target for Improving Late Life Cognition?”*

**Tom Buford, PhD**

Associate Professor

Med – Gerontology, Geriatrics, and Palliative Care

University of Alabama at Birmingham

4:15 – 4:27 p.m. *“Encoding and Retrieval of Complex Events: A Shift towards Knowledge-Based Processing with Normal Aging”*

**Matthew Grilli, PhD**

Assistant Professor

Department of Psychology

Evelyn F. McKnight Brain Institute

University of Arizona

4:30 – 4:42 p.m. *“Sleep and Neurocognitive Aging in Population Based Studies”*

**Alberto Ramos, MD, MSPH, FAASM**

Associate Professor

Research Director, Sleep Disorders Program

University of Miami, Miller School of Medicine

4:45 – 4:57 p.m. *"Frontal Gamma-Aminobutyric Acid Concentrations are Associated with Cognitive Performance in Older Adults”*

**Eric Porges, PhD**

Assistant Professor

University of Florida

5:00 – 5:05 p.m. Additional Q & A

**Friday, April 6, 2018**

7:30 - 9:00 a.m. Breakfast Buffet and Hotel Check-out

Location: Heritage 2

7:30 – 9:00 a.m. Board of Directors Breakfast with MBI Directors

Breakfast Buffet: Location: Heritage 2

Meeting: Hotel Boardroom – Lower Level

**SESSION IV Data Blitz: Trends in Neuroscience**

Location: Heritage 1 MODERATOR – **Erik Roberson, MD, PhD**

9:00 – 9:08 a.m. *“Neurobiological Mechanisms of Age-Associated Changes in Decision–Making”*

**Jennifer Bizon, PhD**

Professor

College of Medicine

Department of Neuroscience and Psychiatry

Evelyn F. and William L. McKnight Brain Institute

University of Florida

9:10 – 9:18 a.m. *“Contributions of Perirhinal and Postrhinal Cortex to Memory: Implications for Aging”*

**Lee Ryan, PhD**

Professor and Department Head

Associate Director, Evelyn F. McKnight Brain Institute

Director, Cognition and Neuroimaging Laboratory

University of Arizona

9:20 – 9:28 a.m. *“Processing Speed Training to Preserve Driving and Functional*

*Competencies in Persons with Mild Cognitive Impairment”*

**Virginia Bradley, PhD**

Professor

Med-Gerontology/Geriatrics/Palliative Care

University of Alabama at Birmingham

9:30 – 9:38 a.m. *"Retinal Microvascular and Microstructural Changes in Normal Aging and*

*Alzheimer's Disease"*

**Hong Jiang, MD, PhD**

Assistant Professor of Clinical

Neuro-ophthalmology & Neurology  
Bascom Palmer Eye Institute

Department of Neurology

University of Miami

9:40 – 9:48 a.m. *“Perforant Path Fiber Loss Impairs Mnemonic Similarity Task Performance in Rats”*

**Sara Burke, PhD**

Assistant Professor

Department of Neuroscience

University of Florida

9:50 – 9:58 a.m. "*Neat1 Mediated Histone Methylation and c-Fos Gene Expression in Memory and Age-Related Memory Deficits"*

**Farah Lubin, PhD**

Associate Professor

Department of Neurobiology

University of Alabama at Birmingham

10:00 – 10:08 a.m. *“Post-Stroke Physical Exercise Improves Cognitive Outcomes in Young and Elderly Animals”*

**Kunjan Dave, PhD**

Research Associate Professor

Department of Neurology

University of Miami

10:10 – 10:18 a.m. *“Use of Internet-Based Testing to Identify Factors Associated with Successful Cognitive Aging”*

**Matthew Huentelman, PhD**

Professor, Neurogenomics Division

Scientific Director, Center for Rare Childhood Disorders

The Translational Genomics Research Institute

University of Arizona

10:20 - 11:20 a.m. Pre-Meeting Reports

11:20 a.m. Closing Remarks

**Ronald M. Lazar, PhD**

**J. Lee Dockery, MD**

11:30 a.m. Travelers pick up box lunches

Foyer – Lower Level

11:30 a.m. Shuttle service to airport begins