

McKNIGHT BRAIN INSTITUTES

UNIVERSITY OF ALABAMA AT OF OF OF OF OF OF OF MIAMI

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

Professor of Neurology

Director, Evelyn F. McKnight Brain Institute at UAB

Director, Division of Neuropsychology 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 Olembers Chair of Neuro

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, PhD

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

Professor of Neurology

Director, Evelyn F. McKnight Brain Institute at UAB

Director, Division of Neuropsychology 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 5:45 p.m. Start loading busses

Travel to Vulcan

6:00 p.m.

6:15 p.m.

Vulcan Park & Museum

7:30 p.m.

Introduction

David Standaert, MD, PhD

John N. Whitaker Professor and Chair

Department of Neurology

University of Alabama at Birmingham

KEYNOTE ADDRESS

"Bears, Bile and the Brain: towards new cures for Alzheimer's Disease"

Madhav Thambisetty, MD, PhD

Investigator and Chief

Unit of Clinical and Translational Neuroscience

National Institute on Aging

8:45 & 9:15 p.m.

Buses return to hotel

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, 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.

TBD

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