

# The Florida Consortium on the Neurobiology of Cognition

*Annual Meeting 2024, Miami, FL*

## Day 1 - Thursday, May 2<sup>nd</sup>

**8:30 am - 10:00 am** Poster Session #1 and Light Breakfast

**10:00 am - 10:30 am** Introduction & Welcome – Dr. Aaron Wilber, FSU

**10:30 am - 12:30 pm**

### **SESSION 1- Role of physical activity in promoting cognitive and brain health in late adulthood.**

Chair: Drs. Shivangi Jain, Dr. Lauren Oberlin

Dr. Henrietta van Praag, Florida Atlantic University

*"The role of exercise in hippocampus-dependent memory"*

Dr. Lauren Oberlin, AdventHealth Research Institute, Neuroscience, Orlando; Department of Psychiatry, Weill Cornell Medicine, New York, NY

*"Cardiorespiratory fitness is associated with cognitive function in late adulthood: Baseline findings from the IGNITE study"*

Dr. Kelsey Sewell, AdventHealth Research Institute, Neuroscience, Orlando; Centre for Healthy Ageing, Health Futures Institute, Murdoch University, Murdoch, Western Australia, Australia

*"How lifestyle shapes the brain: Associations between physical activity, sleep, and cognitive function in older adults"*

Dr. Shivangi Jain, AdventHealth Research Institute, Neuroscience, Orlando

*"Cognitive aging and brain health: Role of white matter lesions, systemic inflammation, and cardiorespiratory fitness"*

**12:30 pm - 1:30 pm** Lunch

**1:30 pm – 2:30 pm Featured**, Dr. Natalie Ebner FCNC Member talk

*"A translational neuroscience approach to social-cognitive and affective aging"*

**2:30 pm - 2:45 pm** Break

**2:30 pm - 2:45 pm**

### **SESSION 2 – Pathogenic mechanisms and potential protective strategies for aging and age-related neurodegenerative disorders**

Chair: Dr. Kim Tieu, Florida International University

Dr. Christiaan Leeuwenburgh, University of Florida

*"Hallmarks of aging: Focus on autophagy and mitochondria"*

Dr. Kim Tieu, Florida International University

*"Targeting mitochondrial dynamics and autophagy as potential therapeutic strategies for Parkinson's disease"*

Dr. Tomas Guilarte, Florida International University

*"The mitochondrial translocator protein 18kDa (TSPO) is an early biomarker of neuroinflammation and disease progression in Alzheimer's disease"*

**4:45 pm - 5:00 pm** Break

**5:00 pm - 6:00 pm Sarah Johnson Data Blitz & Award Announcement**

Organizer: , FIU



## Day 2 - Friday, May 3<sup>rd</sup>

8:30 am - 10:00 am Poster Session #2 and Light Breakfast

10:00 am - 12:00 pm

### SESSION 3 – From the bench to the bedside: Experimental therapy development for Huntington disease

Chairs: Dr. Amber Southwell, University of Central Florida

Dr. Jianning Wei, Florida Atlantic University

*“Implication of environmental factors in the progression of Huntington’s disease”*

Dr. Amber Southwell, University of Central Florida

*“On the hunt for Huntington disease therapy”*

Dr. Ines Bras, University of Central Florida

*“Leveraging extracellular vesicles for Huntington disease biomarkers”*

Dr. Stephen Aradi, University of South Florida

*“Clinical trials in Huntington disease – challenges and opportunities” (Hybrid)*

12:00 pm - 1:45 pm Lunch

1:45 pm - 2:45 pm

**Keynote Speaker – Dr. Randy Buckner, Sosland Family Professor of Psychology and Neuroscience, Harvard University**

*“Precision estimation of large-scale network organization in the human brain”*

2:45 pm - 3:00 pm Break

3:00 pm – 5:00 pm

### SESSION 4 – Neural oscillations underlie cognitive control and are altered with psychiatric illness

Chair: Dr. George Buzzell, Florida International University

Dr. Mingzhou Ding, University of Florida

*“Stimulating neural oscillations to enhance cognitive functions”*

Dr. George Buzzell, Florida International University

*“The potential role of error-related theta oscillations and memory in social anxiety”*

Dr. Justin Riddle, Florida State University

*“Causal role of delta-beta coupling for goal-directed behavior in anhedonic depression”*

5:00 pm - 5:30 pm

Closing Remarks

#### Meeting Code of Conduct

The FCNC has a “zero tolerance” policy toward discrimination and all forms of harassment. FCNC reserves the right to discipline meeting participants who engage in any inappropriate conduct, including dismissal from the conference.

