

The Florida Consortium on the Neurobiology of Cognition

Annual Meeting 2022
(Hybrid: Florida State University and Zoom)



Day 1 - Thursday, May 12

8:30 am - 9:00 am

Light Breakfast

9:00 am - 9:30 am

Introduction and Welcome (Dr. Tim Allen, FCNC President)

9:30 am - 11:30 am

Session 1: Temporal Dynamics Organizing Behavior and Resting State Activity

Organizer: Dr. Carmen Varela, FAU

Active States:

Ryan Gallagher, FAU (Dr. William Alexander lab)

"The Influence of Presentation Order on Learning Task Structure"

Raphael Heldman, MPFI (Dr. Yingxue Wang lab)

"Hippocampal CA1 Neurons Perform Experience Segmentation During Memory Encoding"

Resting States:

Dr. Wen Li, FSU

"Transcranial Stimulation of Alpha Oscillations Up-regulates the Default Mode Network"

Dr. Carmen Varela, FAU

"Fine Timescale Coordination of Thalamic Activity During Non-REM Sleep"

11:30 am - 11:45 am

Break

11:45 am - 12:15 pm

Featured Member Talk: Dr. Jen Bizon, UF *"Neuromodulation for Improving Cognition in Aging"*

12:15 pm - 1:30 pm

Lunch

1:30 pm - 3:30 pm

Session 2: Human Neuroscientific Insights into Cognition and Affect

Organizers: Dr. Derek Nee, FSU and Dr. Chirs Martin, FSU

Dr. Aaron Heller, U Miami

"The Affective and Neural Benefits of Real-World Experiential Diversity"

Diana Perez, FSU (Gratton Lab)

"Using Precision fMRI to Investigate the Neural Correlates of Cognitive Decline in Healthy Aging"

Dr. Steven Weisberg, UF

"Getting Lost: Relating Neural Structure and Function to Variations in Human Navigation Behavior"

Dr. Chris Martin, FSU

"Replaying Real-World Memory Cues Enhances Episodic Memory and Promotes Hippocampal Differentiation in Older Adults"

3:30 pm - 3:45 pm

Break

3:45 pm - 5:00 pm

Sarah Johnson Data Blitz & Award Announcement

Organizer: Dr. Gyle Bumanglag, UF

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Day 2 - Friday, May 13

8:45 am - 9:15 am

Light Breakfast

9:15 am - 11:15 am

Session 3: Defining and Assessing Memory Circuits Across Species

Organizer: Dr. Aaron Mattfeld, FIU

Dr. James Schemers, FIU

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Dr. Nate Muncy, FIU

"Using Generalized Additive Models to Detect Clinically Relevant Diffusion MRI-Behavior Interactions"

Dr. Aaron Mattfeld, FIU

"Using Probabilistic Tractography to Localize the Limbic Thalamus in Humans and Assess its Contribution to Negative Overgeneralization"

11:15 am - 11:30 am

Break

11:30 am - 12:30 pm

Keynote Speaker: Dr. Charan Ranganath, University of California, Davis

"Don't Beat a Dead Seahorse: Strategic Usage of Hippocampal Resources in Episodic Memory and Navigation"

12:30 pm - 1:45 pm

Lunch

1:45 pm - 3:45 pm

Session 4: Narrowing the Gap between Bench to Bedside: Neurodegenerative Disease Mechanisms

Organizer: Dr. Srin Subramaniam, Scripps

Dr. Laura Blair, USF

"Restoring Balance in the Tauopathic Brain"

Dr. Malú Tansey, UF

"Targeting Chronic Inflammation: Translating Pre-clinical Model to the Clinic"

Dr. Ronald Davis, Scripps

"Mitochondrial Therapeutics for Neurodegenerative Diseases"

Dr. Lilly Wang, U Miami Health

"Sex-Specific DNA Methylation Differences in AD"

3:45 pm - 4:15 pm

Closing Remarks

All activities are located in the FSU College of Medicine Atrium and Auditorium.

Join live event via Zoom at: <https://fsu.zoom.us/j/92769688398>

