



**BRAIN HEALTH  
RESEARCH INSTITUTE**  
at Kent State University

# NEWS

## 10<sup>TH</sup> ANNUAL NEUROSCIENCE SYMPOSIUM

The 10<sup>th</sup> Annual Neuroscience Symposium paid tribute to alumni of Kent State and their contributions to our understanding of the brain and nervous system and to solving the riddle of brain disease.

The Keynote address on Thursday, October 27, was presented by Tracy L. Bale and co-sponsored by the Anti-Racism and Equity Institute. Dr. Bale spoke on the topic, "The biology of trauma: Understanding risk and resilience."

The address was followed by a

well-attended reception and poster session, where students presented and answered questions about their research.

Friday's speakers, all Kent State alumni, talked on a plethora of neuroscience topics. The talks were complemented by a breakout session at midday for attendees to go to career development discussions also led by Kent State alumni. Finishing off the events was a gathering at the Kent State Hotel and Conference Center, where the local cover band, The Beams, performed.

## FUNDING NEWS

### *Game Changer Pilot Funding*

KSU Game Changer Pilot Funding was awarded to two applications supported by the BHRI.

Funding was awarded to AMLCI and BHRI jointly for the purchase of a nonlinear optical (NLO) microscope that permits coherent anti-Stokes Raman scattering (CARS) as well as second and third harmonic generation (SHG, THG) microscopy which will be housed in the lower level of the ISB (Neuroimaging Core).

Funding was also awarded to the Psychological Sciences department for its KSU Student Life Study, a longitudinal study of 10,000 students.

### *Giving Tuesday Campaign*

The BHRI Undergraduate Fellows Program was a featured fund for KSU's Giving Tuesday events in November. The campaign secured \$15,515 for the program.



# A DIFFERENT KIND OF RESEARCH SPACE

*To foster interdisciplinary research about the brain, the BHRI takes a different, non-traditional approach to space, creating shared research facilities in the ISB Lower Level.*

The Neurocognitive Collaboratory will soon be equipped with a fully Integrated Artinis Brite fNIRS EEG System plus a wearable TMSi Saga EEG system. fNIRS stands for “functional near infrared spectroscopy”. The functional component comes from the fact that fNIRS devices can assess brain activity. Brite is a portable, user-friendly comfortable multi-channel NIRS system. This device comes with a full headcap (of several different sizes) which can accommodate different head sizes (adult and pediatric) as well as different hair types/thicknesses.

Contact Lolita  
Winning – 330-672-3331 or  
[lsorokou@kent.edu](mailto:lsorokou@kent.edu) – to  
book the Lower-Level Lobby  
for an event.

The Neuroimaging Collaboratory will be open for scheduling and usage at the start of the new year. The mission is to provide resources and support for microscopy and image analysis for BHRI members. Its resources include

- Olympus VS200 Research Slide Scanner
- MBF Bioscience modules for fluorescence and brightfield image capturing and analysis
- Neurolucida
- Stereo Investigator
- Lightsheet Microscope

The Collaboratory also includes two stations equipped with Dell computers loaded with image and calcium imaging analysis software.

For training sessions, please contact Dr. Moore or Dr. Coolen.

More information will be added to the website after December 11.

## Seminar Series

**Tuesdays at 12:30PM  
in the Integrated  
Sciences Building  
Lower-Level Lobby**

**January 24, 2023**

Cameron J. Camp, Ph.D.  
(Center for Applied  
Research in Dementia)

**February 21, 2023**

Matthew J. Robson, Ph.D.  
(University of Cincinnati)

**March 21, 2023**

J. Adam Noah, Ph.D.  
(Yale School of Medicine)

**April 25, 2023**

Michael Schutz  
(McMaster University)  
co-hosted by the  
School of Music



For more information about the BHRI, visit [www.kent.edu/brainhealth](http://www.kent.edu/brainhealth)

