

BRAIN & BODY IMAGING CENTER

Visualizing a Healthier Future

RESEARCH FORUM AGENDA



TUESDAY
NOVEMBER 19th
2024

- 8:30 – 9:00 Coffee and Bagels
- 9:00 Welcome
Jennifer Barton, Ph.D., Director, BIO5 Institute
Elliott Cheu, Ph.D., Associate Vice President of Research Centers and Institutes
Tomas Díaz de la Rubia Ph.D., Senior Vice President for Research and Innovation
- 9:20 Brain & Body Imaging Center Update: Lee Ryan, Ph.D., Director, BBIC
9:40 Geoffrey Rubin, M.D., Chair, Medical Imaging:
Medical Imaging Research: Innovation to Inform Patient Care
- 10:00 Alan Chiang, M.D., Ph.D., Medical Imaging:
Discoveries in breast imaging with breast CT and MRI
- 10:20 Break
- 10:40 Julie Pilitsis, M.D., Ph.D., Chair, Neurosurgery:
Imaging Guided Neuromodulation
- 11:00 Nan-kuei Chen, Ph.D., Biomedical Engineering:
Interdisciplinary brain and body imaging studies from BME
- 11:20 Eung-Joo Lee, Ph.D., Electrical and Computer Engineering:
Advances in Self-Supervised Learning: Graph Transformers for Connectivity Analysis and Segmentation Applications
- 11:40 Iman Daryaei, Ph.D., TheraCea Pharma:
Non-Invasive Temporal and Spatial Detection of Biomarkers in Cancer and Neurological Diseases Using Hybrid PET/MRI

8:30 AM to 3:00 PM



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TUCSON AZ

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12:00 – 1:00 Lunch Provided

1:00-2:00 Data Blitz with Post-Docs & Graduate Students

- Stephanie Matijevic, Ph.D.: *The Precision Aging Network: Cerebral white matter integrity in normal aging*
- Laurel Dieckhaus: *Bias-Free Multi-dimensional MRI Analysis to Resolve Age-related Microstructural Differences in the Ex-Vivo Female Bonnet Macaque Brain*
- Yilin Liu Ph.D.: *Optimizing Neuromodulation for Cognitive Aging: Advances in MRI-Guided Stimulation Targeting and Connectomic Insights*
- Christa Sonderer: *The Use of Dynamic QSM to Measure Brain Physiology*
- Margaret Allard: *Neuronavigated Transcranial Acoustoelectric Brain Imaging: High-Resolution Mapping of Neuronal Currents in a Human Head Model*
- Avnish Bhattarai: *Impact of humanized APOE on brain volumetrics and white matter microstructure within a mouse model for Alzheimer's Disease*

2:00 Ashley Huggins, Ph.D. Psychology:
The little brain's big impact: examining the role of the cerebellum in the pathophysiology of PTSD

2:20 Beth Hutchinson, Ph.D., Biomedical Engineering:
Multimodal brain imaging and the validation of diffusion MRI Paradigms

2:40 Arne Ekstrom, Ph.D., Head, Psychology:
Insights into the memory and aging from high-resolution hippocampal and multi-band EPI imaging

3:00 Adjourn

8:30 AM to 3:00 PM



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