

# Neuroscience Research Institute

## Neuroimaging Symposium

October 28-29, 2022

### **Thursday, October 27<sup>th</sup>**

6:30 p.m. Dinner for Invited Speakers & Organizers

### **Friday, October 28<sup>th</sup>**

8:00 a.m. Registration & Continental Breakfast

8:30 a.m. Opening Remarks

Plenary Speaker

**Three Myths of Artificial Intelligence & Medical Imaging**

*Rory Pilgrim (Google Health)*

**Discussant:** *Yanhui Ma (OSU)*

9:45 a.m. Break

10:00 a.m. Session I – Neurodegeneration

Moderators: Doug Scharre (OSU) and Lei Wang (OSU)

**Imaging the Biology of Beta-amyloid and Tau**

*Bill Jagust (UC Berkeley) – Zoom*

**Connectome-Based Models of Functional**

**Connectivity Predict Alzheimer’s Disease Pathology**

**and Cognitive Decline in Older Adults**

*Ruchika Prakash (OSU)*

**On AI, AO, and Other Projects with Fun Acronyms**

**(Number 3 Will Shock You!)**

*Sina Farsiu (Duke) – Zoom*

11:45 p.m. Session I Q&A

12:05 p.m. Lunch/Networking

1:00 p.m. Session II – Neurodegeneration/Vascular Dementia



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Moderators: Ruchika Prakash (OSU) and Yousef Hannawi (OSU)  
**Molecular Imaging and Imaging Data Analytics in Neurodegeneration**  
*Michael Knopp (OSU)*

**Quantitative brain PET/SPECT analysis in nuclear neuroimaging interpretation**

*Bingfeng Tang (OSU)*

**Novel Imaging of Small Vessel Cerebrovascular Disease**

*Charlie DeCarli (UC Davis)*

2:45 p.m. **Session II Q&A**

3:00 p.m. **Break**

3:15 p.m. **Flash Talks**

Moderators: TBD

**Chosen from Abstracts**

4:30 p.m. **Poster Session & Reception**

6:30 p.m. **Closing Remarks**

## **Saturday, October 29<sup>th</sup>**

8:00 a.m. **Arrival & Continental Breakfast**

8:30 a.m. **Session III – Neurovascular / Innovation in Neuroimaging**

Moderators: Yousef Hannawi (OSU)

**Clinical Applications of Artificial Intelligence in Acute Stroke Imaging**

*Greg Albers (Stanford)*

**AI algorithm development in neuroimaging: from idea to implementation**

*Luciano Prevedello (OSU)*

9:40 a.m. **Session III Q&A**

9:50 a.m. **Break**

10:00 a.m. **Session IV - Ocular Imaging in Neurological Diagnosis & Management**

Moderators: Sayoko Moroi (OSU) & Nathan Doble (OSU)

**Progress on Structural and Functional Retinal Imaging in Mice**

*Robert Zawadzki (UC Davis)*

**Diagnosing Traumatic Optic Neuropathy Using Visual Electrophysiology**

*Matt Reilly (OSU)*



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*Break*

**Reconstructing attended objects, features, and locations from fMRI and EEG data**

*Julie Golomb (OSU)*

**Imaging Advances in the Evaluation of Inflammatory Optic Neuropathies**

*Fiona Costello (U Calgary) – Zoom*

12:25 p.m. **Session I Q&A**

12:45 p.m. **Closing Remarks**



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