

Society for Brain Mapping and Therapeutics (SBMT)

Organized by Ashkan Javadzadeh

Final Program

14th April 2018

Saturday, April 14th 10:00 – 11:30 am

Session B27 : Neurophotonics and Brain Mapping
Co-Chair: MohammadReza Nasiri-Avanaki and Fartash Vasefi

10:00-10:15 Ramin Pashaie, PHD
(Electrical and Computer Engineering Department, University of Wisconsin-Milwaukee)
Functional Neuroimaging via Optical Coherence Tomography Angiography

10:15-10:30 Lei Li, BS , MS
(California Institute of Technology, Department of Electrical Engineering)
Imaging small-animal whole-body dynamics and whole-brain brain activities using photoacoustic computed tomography

10:30-10:45 Jana Kainerstorfer, PHD
(Carnegie Mellon University)
Monitoring of Cerebral Hemodynamics with Near-Infrared Light During Trauma

10:45-11:00 Mahmood Hoseini PhD
(Washington University)
The role of transplanted GABAergic interneurons in ocular dominance plasticity

11:00-11:15 Adam Bauer
(Washington University St. Louis Dept. of Radiology)
The imaging and manipulating functional in mouse models of stroke

11:15-11:30 Session Discussion

Saturday, April 14th 1:00 – 2:30 pm

Session B34 : Addiction and Opioids
Co-Chair: Parmis Khatibi and Jean Bidlack

1:00-1:15 Denise Kandel
(Vagelos College of Physicians and Surgeons and Mailman School of Public Health, Columbia University; and New York State Psychiatric Institute.)
What Accounts for the Increase in Prescription Opioid Overdose Deaths?

1:15-1:30 Nikan Khatibi
(CMA, CalOptima)
Government Efforts in Dealing with the Opioid Epidemic

1:30-1:45 Shilpa Buch
(University of Nebraska Medical Center)
How Opiates Exacerbate Neurodegeneration

1:45-2:00 Sabita Roy
(University of Miami)
Role of the Gut Microbiome in Opioid Tolerance

2:00-2:15 Jean Bidlack
(University of Rochester, School of Medicine and Dentistry)
Medications Development for Treating Opioid Abuse

2:15-2:30 Session Discussion

Saturday, April 14th 3:00 – 4:30 pm

Session B41: NeuroEngineering (Dr. John McDonald Memorial session)

Chair: Venkatraman Sadanand

3:00-3:15 Dr. Haralampos Hatzikirou

(The Helmholtz Institute and Braunschweig Integrated Center for Systems Biology, Germany.)
The role of cell decision-making dynamics in the glioblastoma development

3:15-3:30 Dr. Natasha Lepore

(University of Southern California, Department of Biomedical Engineering)

Topics in pediatric brain MRI analyses

3:30-3:45 Dr. C. Narayan

(Director of Science and Technology, IBM Almaden Research Center, USA)

Machine Learning vs Machine Intelligence - A hardware perspective

3:45-4:00 Dr. Meng Law

(University of Southern California, Department of Biomedical Engineering)

Neuromodulation, neuroplasticity, neuroengineering, ultra high field neuroimaging in
Neurodegenerative Diseases

4:00-4:15 Dr. V. Sadanand

(Department of Neurosurgery, Loma Linda University Health, California, USA.)

Can Game Theory help generate innovations and move them to serviceable products?

4:15-4:30 Session Discussion