

Mayo Clinic
NEUROSCIENCE
Convergence
November 8th-10th 2018
Ritz Carlton, Amelia Island

Day#1 - Thursday –Neuroscience Moderator: Len Petrucelli, PhD	
7:00 a.m.	Registration and Continental Breakfast
7:45	Introduction and Welcome -Dr Freeman Opening Remarks to Neuroscience Speakers – Dr Petrucelli
8:00	Gut Microbiome and Brain Health John Fryer, PhD
8:30	Neuro-Inflammatory Pathways and New Targets LongJun Wu, PhD
9:00	Updates in Alzheimer’s Research R&D Pipeline: A Patient Story Ron Peterson, MD
9:30	Genomic Medicine Implementation in a Neurogenetics clinic: Case Examples Paldeep Atwal, MBBS
10:00 -10:30	Identification of Novel Alzheimer’s Genes and Pathways Rosa Rademakers, PhD
10:30	Q&A
10:45	Break
11:00	How Do We Model Brain Diseases: From Mouse to Brain Organoids Guojun Bu, PhD
12:00 - 1:15	Lunch and Networking
1:15	Neurogenetics Owen Ross, PhD
1:45	Big Data from NIH Neuroscience Initiatives Margaret Sutherland, PhD
2:45	Multiple Sclerosis Neuroscience Update Mark Keegan, MD Division Chair Neuroimmunology
3:15	New Methods of Deep Brain Stimulation (DBS) Robert E. Wharen, MD
3:45	Q&A
4pm	Break
4:15pm	ePosters- Neuroscience presentations
4:50	Adjourn
5:00 – 6:00 p.m.	Opening Reception <i>Hors d’oeuvres and Cash bar</i>

Program schedule is subject to change without notice

Mayo Clinic
NEUROSCIENCE
Convergence
November 8th-10th 2018
Ritz Carlton, Amelia Island

Day #2- Friday –Brain Machine Interfaces and Neuroscience Moderators: Kevin Bennet, PhD	
7:00 a.m.	Registration and Continental Breakfast
8:00	Introduction, Welcome and Speaker Introductions – Dr Bennet
8:00	BRAIN Initiative Update Matthew Raymond PhD
8:30	Neurostimulation Devices for Neurological Disorders Kendall H. Lee, MD, PhD
9:00	Vagus Nerve Stimulation for Stroke Rehabilitation Ben Brown, MD
9:30	The QT Device for Intraoperative Monitoring Epilepsy William O. Tatum, DO
10:00	Biomarker-informed Stimulation for Epilepsy Brian N. Lundstrom, MD, PhD
10:30	Q&A
10:45	Break
11:00	Machine Learning in Health Care and the National Academies Plan HongFang Liu, PhD
11:45	Q&A
12:00	Lunch and Networking
1:30 - 3:00 p.m.	Breakout Theme #1 – Bioinformatics: Translating Big Data to Action and Precision Medicine Initiative - Q&A, Steven Hart, PhD, Paul Kingsbury, PhD, Moderators: Jim Buntrock, Rickey E Carter, PhD.,
	Breakout Theme #2: Neural Engineering Update- NINDS BRAIN initiative and Challenges – Matthew Raymond, PhD , Kendall Lee, MD, PhD, Ben Brown, MD Moderator: Kevin Bennet, PhD
	Breakout Theme #3: Artificial Intelligence/Machine Learning & Neuroscience Matt Berseth; Dennis Murphree, PhD, Che Ngufor, Ph.D. Dr. Hongfang Liu Moderator: W. David Freeman, MD
	Breakout Theme #4: Bench to Bedside Translation: What is the Next Quantum Jump? Q&A Session Panelists- Guojun Bu, PhD, Betty Kim, MD, PhD, Owen Ross, PhD Moderator: Mike Pizzi, DO, PhD
3:00	ePosters—Neuro/Informatics Posters and Machine Learning
3:30 p.m.	Adjourn general session

Program schedule is subject to change without notice

Mayo Clinic
NEUROSCIENCE
Convergence
November 8th-10th 2018
Ritz Carlton, Amelia Island

Day #3 Saturday—NeuroCircuitry, Neuro Rehabilitative & Human Behavior Moderators: Mike Pizzi, DO, PhD, Kevin Barrett, MD, Nicole Avalon-PA-C, Amelia Mantione, RN	
7:00 a.m.	Registration and Continental Breakfast
8:15	Introduction and Welcome and Speaker Introductions: Moderator: Nicole Avalon-PA-C
8:30	The Cognitive Bias Codex, Kahenman and Nobel Prize: Can Machines Reduce Bias? Brynn Dredla, MD
9:00	Neuropsychiatric Circuits- Transcranial Magnetic Stimulation (TMS) for Depression Chris Lachner, MD
9:30	Music and the Brain Nilufer Taner, MD, PhD
9:45	Neurorehabilitation- Cyberdyne Robotics Exoskeleton Bob McIver, PhD Brooks
10:15	3-D Printed Neural Prosthetics & “Xavier” ALS Wheel Chair Albert Manero, PhD
10:45	Morning Speaker Panelist Q&A/Break
11:00	Keynote: 3-D BioPrinting Innovation - Applications for Neuroscientists and Neurologic Surgery Rahmi Oklu, MD
11:55	Q&A
12:10	Break
12:25	Lunch Neuroscience Arts and Humanities e-Posters 3-- <i>Music, Art and the Brain</i> Philip Tipton, MD Mayo Clinic
1:15 p.m.	Adjourn

Program schedule is subject to change without notice