

MAYO CLINIC
NEUROSCIENCE
 Convergence

November 7-9th 2019
 Ritz Carlton, St Thomas USVI

Thursday November 7, 2019: Neuroscience
Moderator: Leonard Petrucelli, PhD

7:00 am	Registration, Continental Breakfast and Exhibits
7:30	Introduction and Welcome W. David Freeman, MD Opening Remarks to Neuroscience Speakers Leonard Petrucelli, PhD
7:45	Inflammation in the Aging Brain John Fryer, PhD
8:15	Neuro-Inflammatory Pathways and New Targets LongJun Wu, PhD
8:45	Center for Regenerative Medicine: Neuroscience Update Guojun Bu, PhD
9:15	Genetics of the Future & \$100 Genome: What does it Mean for Medicine? Owen Ross, PhD
9:45	Q&A
10:00	Break and Exhibits
10:20	MRI Machine-Learning Detection of Brain Tumor Genotypes Bradley Erickson, MD, PhD
10:50	Paradoxical Aging in Alzheimer's Disease Melissa Murray, PhD
11:25	Keynote The Chan-Zuckerberg Global Initiative: Education and Science Katja Brose, PhD
11:55	Q&A
12:10 pm	Lunch
1:00	Aging Science - Update from Mayo Clinic Kogod Center James Kirkland, MD, PhD
1:30	TBD Austin Yang, PhD
2:00	Q&A Theme #1: Bench to Bedside Translation: What is the Next Quantum Jump Forward? Owen Ross, PhD, Katja Brose, PhD, James Kirkland, MD, PhD Moderators: Michael Pizzi, DO, PhD, Guojun Bu, PhD
2:30	Q&A/ Break and Exhibits
3:00	ePosters - Neuroscience Laboratory Team Science E-Presentations
3:30	Adjourn
3:30 – 4:30 pm	Reception

Program schedule is subject to change without notice

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Friday November 8, 2019: Brain Machine Interfaces and Neuroscience
Moderator: Kevin Bennet, PhD, MBA

7:30 am	Continental Breakfast and Exhibits
7:55	Introduction, Welcome and Speaker Introductions Kevin Bennet, PhD, MBA
8:00	Novel Neurotransmitter Real Time Measurements in vivo and Development of WINCS MAVEN Technology Yoonbae Oh, PhD
8:30	Spinal Cord Stimulation Neuromodulation/Rehabilitation for Paraplegia Kristin Zhao, PhD
9:00	Brain-Machine Interfacing Epilepsy Systems Jamie Van Gompel, MD
9:30	Treatment Innovation in Headache Disorders, including CGRP Monoclonal Antibodies and Neuromodulation Amaal Starling, MD
10:00	Q&A
10:15	Break and Exhibits
10:30	Promoting an Overdue Digital Transformation in Health Care: An industry procurement approach to interoperability Meredith Karney, MHA, Center for Medical Interoperability
11:00	Keynote: Cybernetic Neural Interfacing for Human Regeneration Professor Yoshiyuki Sankai, PhD, Founder, President, and CEO Cyberdyne
11:45	Q&A/Break
12:15 pm	<i>Optional Lunch and Learn Event – Advances in DBS, Robert Wharen, Jr., MD</i> Product Theatre Sponsored by Boston Scientific Disclaimer: No CME credit provided by Mayo Clinic or Boston Scientific This lecture is not endorsed or accredited by Mayo Clinic
1:15	Multiple Sclerosis and Demyelinating Diseases: Global Challenges Mark Keegan, MD, Division Head, Demyelinating disorders Mayo Clinic
1:45	Q&A Theme #2: <i>Neural Engineering Update - NINDS BRAIN initiative and Challenges</i> Yoshiyuki Sankai, PhD, Austin Yang, PhD, Melissa Murray, PhD, Yoonbae Oh, PhD, Kristin Zhao, PhD Moderator: Kevin Bennet, PhD, MBA
2:45	Q&A Theme #3: <i>Artificial Intelligence/Machine Learning & Neuroscience</i> Dennis H. Murphree Jr., PhD, Che Ngufor, PhD, Hongfang Liu, PhD and Steven N. Hart, PhD. Moderator: W. David Freeman, MD and Rickey Carter, PhD
3:45	e-Poster/e-Presentations Moderator: W. David Freeman, MD Neuroimaging Moderator: Hector Robles, MD
4:15 pm	Adjourn

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Saturday November 9, 2019: Neurocircuitry, Neuro Rehabilitation & Human Behavior
Moderators: Michael Pizzi, DO, PhD, Kevin Barrett, MD, Nicole Avalon, PA-C,
and Amelia Mantione, RN

7:45 am	Continental Breakfast and Exhibits
8:15	Introduction and Welcome and Speaker Introductions Nicole Avalon, PA-C
8:30	Can Artificial Intelligence Reduce Bias by Kahneman “Thinking Fast and Slow” Principles? Brynn Dredla, MD
9:00	Will Androids Dream of Electric Sheep: The Importance of Sleep for Global Health? Emir Festic, MD, MSc
9:30	Music and the Brain Philip Tipton, MD
10:00	Art, The Brain & Psychosis – Van Gogh & Madness Christian Lachner, MD
10:30	Keynote: Convergence Neuroscience - A Global Call to Action Rodrigo Ramos Zuniga, MD, PhD
11:30	Q&A
12:00 pm	Adjourn

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