

Date	Time	Track	Presentation Title	Speaker
1-Jan	06:00 - 07:00 AM	NIH BRAIN Initiative: A Multidisciplinary Approach to Neuroscience	Acoustically Targeted Molecular Neuromodulation	Mikhail G. Shapiro, PhD Professor of Chemical Engineering, Investigator, Heritage Medical Research Institute, California Institute of Technology
1-Jan	06:00 - 07:00 AM	Understanding the Scourge of Neurodegenerative Diseases and Dementia	Bridging the translational gap in rodent behavioral testing using touchscreens and the MouseBytes Open science data repository	Marco A.M. Prado, PhD Canada Research Chair in Neurochemistry of Dementia, Scientist, Robarts Research Institute, Professor Department of Physiology and Pharmacology and Department of Anatomy & Cell Biology
1-Jan	06:00 - 07:00 AM	Understanding the Scourge of Neurodegenerative Diseases and Dementia	Deciphering the spreading of neuropathologies in neuronal circuits using a high capacity microfluidics platform	Sebastian Illies, PhD Director of CNS research, Celectricon AB
1-Jan	06:00 - 07:00 AM	NIH BRAIN Initiative: A Multidisciplinary Approach to Neuroscience	Deep brain Recording and Stimulation of Real World Episodic Memory in Humans	Nanthia Suthana, PhD Assistant Professor, David Geffen School of Medicine at UCLA
1-Jan	06:00 - 07:00 AM	NIH BRAIN Initiative: A Multidisciplinary Approach to Neuroscience	Ethical Challenges in Early Phase Brain Device Research	Lauren R. Sankary, JD, MA Neuroethics Staff, Neurological Institute, Associate Director, Neuroethics Program, Center for Bioethics, Cleveland Clinic Center for Bioethics
1-Jan	06:00 - 07:00 AM	NIH BRAIN Initiative: A Multidisciplinary Approach to Neuroscience	Improving the Precision and Targeting of Transcranial Magnetic Stimulation	Luis Gomez, PhD Post-doctoral associate, Duke University
1-Jan	06:00 - 07:00 AM	Behavioral and Psychiatric Disorders	Investigating Cerebellar Correlates of Autism in Model Mice	Alexander D. Kloth, PhD Assistant Professor, Biology Department, Augustana University
1-Jan	06:00 - 07:00 AM	Understanding the Scourge of Neurodegenerative Diseases and Dementia	Investigating the roles of the Hsp90 co-chaperone, STI1, in neuronal resilience during aging	Rachel E. Lackie, HBSc. PhD Candidate in Neuroscience, Robarts Research Institute, The University of Western Ontario
1-Jan	06:00 - 07:00 AM	NIH BRAIN Initiative: A Multidisciplinary Approach to Neuroscience	Multi-region Neural Network Models of Adaptive and Maladaptive Learning in the Brain	Kanaka Rajan, PhD Assistant Professor, Department of Neuroscience & Friedman Brain Institute, Icahn School of Medicine at Mount Sinai

1-Jan	06:00 - 07:00 AM	NIH BRAIN Initiative: A Multidisciplinary Approach to Neuroscience	Neural Interfaces for Controlling Finger Movements	Cynthia Chestek, PhD Associate Professor of Biomedical Engineering, Electrical Engineering, Neuroscience and Robotics, University of Michigan
1-Jan	06:00 - 07:00 AM	NIH BRAIN Initiative: A Multidisciplinary Approach to Neuroscience	Real-Time Monitoring of Striatal GPCR Mediated cAMP Signaling Using Genetically Encoded Fluorescent Sensors	Shana M. Augustin, PhD Research fellow, National Institutes of Health (NIH)
1-Jan	06:00 - 07:00 AM	Behavioral and Psychiatric Disorders	Selective D4R Ligands Reveal Structure-Activity Relationships that Engender Agonist Efficacy	Comfort A. Boateng, PhD Assistant Professor, High Point University
1-Jan	06:00 - 07:00 AM	NIH BRAIN Initiative: A Multidisciplinary Approach to Neuroscience	Sensing in a dynamic world: what the antennae of the fruit fly can teach us about sensation and the perception of movement	Marie P. Suver, PhD Postdoctoral Fellow, NYU Neuroscience Institute, NYU Langone Medical Center
1-Jan	06:00 - 07:00 AM	NIH BRAIN Initiative: A Multidisciplinary Approach to Neuroscience	TBD	David J. Anderson, PhD Seymour Benzer Professor of Biology Director, Tianqiao and Chrissy Chen Institute for Neuroscience, Investigator, HHMI
11-Mar	06:00 - 07:00 AM	NIH BRAIN Initiative: A Multidisciplinary Approach to Neuroscience	PANEL: Sensorimotor Processing, Decision Making, and Internal States: Towards a Realistic Multiscale Circuit Model of the Larval Zebrafish Brain	Florian Engert, PhD Professor of Molecular and Cellular Biology, Harvard University Jeff Lichtman, MD, PhD Jeremy R. Knowles Professor of Molecular and Cellular Biology at Harvard Haim Sompolinsky Professor of Physics and Neuroscience at Hebrew University and Director of Swartz Program in Theoretical Neuroscience at Harvard University

11-Mar	06:00 - 07:00 AM	NIH BRAIN Initiative: A Multidisciplinary Approach to Neuroscience	PANEL: The Neural Control of Locomotion, an Integrative Approach	Michael Dickinson, PhD Abe and Zarem Professor of Biology and Bioengineering, California Institute of Technology Anthony Azevedo, PhD Post-doctoral Researcher, Department of Physiology and Biophysics, University of Washington School of Medicine Clare Howard, PhD MD/PhD Student, Columbia Vagelos College of Physicians and Surgeons Luke Brezovec Graduate student, Wu Tsai Neurosciences Institute, Stanford University Sasha Rayshubskiy Post-doctoral associate, Department of Neurobiology, Harvard Medical School Emily Palmer Graduate Student, Graduate Aeronautics Laboratory, California Institute of Technology
11-Mar	06:00 - 07:00 AM	Understanding the Scourge of Neurodegenerative Diseases and Dementia	The Rise of Neuroimmunology: Discover the tools & solutions Miltenyi Biotec has to help you navigate experimental challenges during the next revolution in human health.	Josh Mahlios, PhD Senior Marketing Product Manager, Miltenyi Biotec
11-Mar	07:30 - 08:30 AM	Understanding the Scourge of Neurodegenerative Diseases and Dementia	Keynote Presentation: Interplay between LRRK2 protein kinase and Rab GTPases in Parkinson's disease	Dario Alessi, FRS FMedSci FRSE Director, Professor of Signal Transduction, University of Dundee
11-Mar	07:30 - 08:30 AM	NIH BRAIN Initiative: A Multidisciplinary Approach to Neuroscience	PANEL: Neuronal Circuit Resilience - How the Brain Manages to Maintain Reliable Behaviors with Unreliable Neurons	Adrienne Fairhall, PhD Professor in the Department of Physiology and Biophysics and adjunct in the Departments of Physics and Applied Mathematics, University of Washington Tim Gardner Associate Professor and Robert and Leona Chair in Neuroengineering at the Knight Campus, University of Oregon Carlos Lois, MD, PhD Research Professor in Neurobiology at the Division of Biology and Biological Engineering, Caltech
11-Mar	09:00 - 10:00 AM	NIH BRAIN Initiative: A Multidisciplinary Approach to Neuroscience	Keynote Presentation: The BRAIN Initiative and its Promise for the Treatment of Neuro/Mental/Substance Abuse Disorders	Walter Koroshetz, MD Director, National Institute of Neurological Disorders and Stroke

11-Mar	09:00 - 10:00 AM	NIH BRAIN Initiative: A Multidisciplinary Approach to Neuroscience	PANEL: Neural circuit mechanisms of memory replay	György Buzsáki, PhD Biggs Professor of Neuroscience, NYU School of Medicine Attila Losonczy Professor of Neuroscience in the Mortimer B. Zuckerman Mind Brain Behavior Institute Columbia University Mark J. Schnitzer Professor, Departments of Biology & Applied Physics Investigator, Howard Hughes Medical Institute Stanford University Ivan Soltesz Professor, Stanford University
11-Mar	10:30 - 11:30 AM	Understanding the Scourge of Neurodegenerative Diseases and Dementia	Innate immunity in chronic neurodegeneration	Michael T. Heneka, PhD Director of the Department of Neurodegenerative Diseases and Gerontopsychiatry at the University of Bonn, Germany
11-Mar	10:30 - 11:30 AM	NIH BRAIN Initiative: A Multidisciplinary Approach to Neuroscience	PANEL: Deep Brain Stimulation for Depression Using Directional Current Steering and Individualized Network Targeting	Wayne Goodman, MD D.C and Irene Ellwood Professor and Chair of the Menninger Department of Psychiatry and Behavioral Sciences at Baylor College of Medicine Nader Pouratian, MD, PhD Professor of Neurosurgery and Radiation Oncology and affiliated faculty in Bioengineering and Neuroscience, UCLA Medical Center & UCLA Brain Research Institute Sameer Anil Sheth, MD, PhD Associate Professor, Vice-Chair of Clinical Research, Neurosurgery, Baylor College of Medicine
11-Mar	10:30 - 11:30 AM	NIH BRAIN Initiative: A Multidisciplinary Approach to Neuroscience	PANEL: The Berghia Brain Project: A Team Approach to Understanding Whole-Brain Control of State- Dependent, Motivated Behaviors	Paul Katz, PhD Professor and Director of Neurosciences, Neuroscience & Behavior Graduate Program, Department of Biology, University of Massachusetts Amherst Jeff Lichtman, MD, PhD Jeremy R. Knowles Professor of Molecular and Cellular Biology at Harvard William Frost, PhD Director of the Center for Brain Function and Repair and Professor and Chair of Cell Biology and Anatomy at The Chicago Medical School, Rosalind Franklin University Deidre Lyons, PhD Assistant Professor at the University of California San Diego at the Scripps Institution of Oceanography Vince Lyzinski, PhD, B.Sc, M.Sc, M.Sc.E. Assistant Professor at the University of Maryland in the Department of Mathematics

11-Mar	12:00 - 01:00 PM	NIH BRAIN Initiative: A Multidisciplinary Approach to Neuroscience	PANEL: A Neuroscience-Based Approach to Restoration of Sensorimotor Function After Spinal Cord Injury	<p>Robert Gaunt, PhD Assistant Professor, Rehab Neural Engineering Labs, University of Pittsburgh School of Medicine</p> <p>Michael Boninger, MD Tenured Professor & UPMC Endowed Vice Chair, Department of Physical Medicine & Rehabilitation; Senior Medical Director, Post-Acute Care, Health Service Division, UPMC</p> <p>Jennifer Collinger, PhD Assistant Professor, Department of Physical Medicine and Rehabilitation, University of Pittsburgh, Rehab Neural Engineering Labs, Biomedical Engineer, VA R&D Center of Excellence</p>
11-Mar	12:00 - 01:00 PM	NIH BRAIN Initiative: A Multidisciplinary Approach to Neuroscience	PANEL: Cracking a Neural Circuit's Function Through High-Resolution Physiology, Connectomics, and Computational Modeling	<p>Emre Aksay, PhD Associate Professor of Computational Neuroscience in the Department of Physiology and Biophysics at Weill Cornell Medicine</p> <p>Mark Goldman, PhD Joel Keizer Chair in Theoretical and Computational Biology at UC Davis, and Professor in the Departments of Neurobiology, Physiology, & Behavior and the Department of Ophthalmology</p> <p>Sebastian Seung, PhD Anthony B. Evnin Professor in the Neuroscience Institute and Computer Science Department at Princeton University, and Chief Research Scientist at Samsung Electronics</p> <p>Ashwin Vishwanathan, PhD Research Associate at the Princeton Neuroscience Institute</p>
11-Mar	12:00 - 01:00 PM	NIH BRAIN Initiative: A Multidisciplinary Approach to Neuroscience	PANEL: Thought to action: developing brain machine interfaces to assist individuals with paralysis	<p>Tyson Aflalo, PhD Member of Professional Staff, Executive Director, T&C Brain-Machine Interface Center, Division of Biology and Biological Engineering, California Institute of Technology</p> <p>Richard A. Andersen, PhD James G. Boswell Professor of Neuroscience, T&C Chen Brain-Machine Interface Center Leadership Chair Director, T&C Brain-Machine Interface Center Division of Biology and Biological Engineering</p> <p>Spencer Kellis, PhD Member of Professional Staff, Director of Engineering, T&C Brain-Machine Interface Center, Division of Biology and Biological Engineering, California Institute of Technology</p> <p>Charles Liu, MD, PhD Professor of Neurosurgery, Director of the USC Neurorestoration Center, Keck School of Medicine, University of Southern California, Chair of Neurosurgery and Orthopedics</p>

11-Mar	01:30 - 02:30 PM	Understanding the Scourge of Neurodegenerative Diseases and Dementia	Examining the effects of sonication on alpha synuclein pre-formed fibrils (PFFs)	Ariel Louwrier, PhD President StressMarq Biosciences Inc.
11-Mar	01:30 - 02:30 PM	NIH BRAIN Initiative: A Multidisciplinary Approach to Neuroscience	PANEL: Dissecting the circuit logics in the amygdala underlying emotional learning	Bo Li Professor of Neuroscience, Cold Spring Harbor Laboratory Tianyi Mao Associate Professor, Vollum Institute, Oregon Health and Science University Haining Zhong Scientist/Associate Professor, Vollum Institute, Oregon Health & Science University
11-Mar	01:30 - 02:30 PM	NIH BRAIN Initiative: A Multidisciplinary Approach to Neuroscience	PANEL: Dissecting the circuit logics in the amygdala underlying emotional learning (copy)	Bo Li Professor of Neuroscience, Cold Spring Harbor Laboratory Tianyi Mao Associate Professor, Vollum Institute, Oregon Health and Science University Haining Zhong Scientist/Associate Professor, Vollum Institute, Oregon Health & Science University
11-Mar	01:30 - 02:30 PM	NIH BRAIN Initiative: A Multidisciplinary Approach to Neuroscience	PANEL: The Neuronal Mechanisms of Human Episodic Memory: a Multidisciplinary Consortium Utilizing Human Single-Neuron Recordings	Adam Mamelak, MD Professor of Neurosurgery, Director of Epilepsy and Functional Neurosurgery and Co-director of the Pituitary Center at Cedars-Sinai Medical Center Ueli Rutishauser, PhD Board of Governors Chair in Neuroscience, Director, Human Neurophysiology Research, Associate Professor, Neurosurgery, Neurology & Biomedical Sciences, Cedars-Sinai Medical Center Gabriel Kreiman, PhD Professor at Harvard Medical School and Children's Hospital and leads the Executive Function/Memory module in the Center for Brains, Minds and Machines Jie Zheng, PhD Research Fellow at Boston Children's Hospital

11-Mar	03:00 - 04:00 PM	NIH BRAIN Initiative: A Multidisciplinary Approach to Neuroscience	PANEL: A Team Multi-Disciplinary Approach to Understanding the Neural Circuit Dynamics Underlying Working Memory and Decision-Making	<p>Carlos Brody, PhD Wilbur H. Gantz III '59 Professor of Neuroscience, Princeton Neuroscience Institute Ben Engelhard, PhD Post Doctoral Research Associate, Princeton Neuroscience Institute Stephen Keeley, PhD Post Doctoral Research Associate, Princeton Neuroscience Institute Marlies Oostland, PhD Marie Skłodowska-Curie Fellow in the labs of Prof. Sam Wang at the Princeton Neuroscience Institute, and Prof. Michael Brecht at the Humboldt University Lucas Pinto, MD, PhD Post Doctoral Research Associate, Princeton Neuroscience Institute Adrian Wanner, PhD CV Starr Fellow at Princeton University Ilana Witten, PhD Associate Professor of Psychology and Neuroscience, Princeton</p>
11-Mar	03:00 - 04:00 PM	NIH BRAIN Initiative: A Multidisciplinary Approach to Neuroscience	PANEL: Anatomical Characterization of Neuron Cell Types in the Mouse Brain	<p>Giorgio Ascoli, PhD University Professor, Bioengineering Department, Volgenau School of Engineering, Neuroscience Program, Krasnow Institute for Advanced Study, Founding Editor-in-Chief, Neuroinformatics Hong-Wei Dong, MD, PhD Professor of Neurology, Physiology & Neuroscience, Director, Center for Integrative Connectomics, USC Mark and Marry Stevens Neuroimaging & Informatics Institute, Keck School of Medicine, USC Byungkook Lim, PhD Assistant Professor, Division of Biological Sciences, Neurobiology, University of California, San Diego</p>