



Date	Time	Track	Presentation Title	Speaker
13-Mar	06:00 - 07:00 AM	Pioneering Our Understanding of the Human Brain	Keynote Presentation: Updates from the NIH BRAIN Initiative	Joshua A. Gordon, MD, PhD Director of National Institute of Mental Health
13-Mar	07:00 - 07:30 AM	Pioneering Our Understanding of the Human Brain	NIH BRAIN Funding Opportunities: NIH BRAIN Initiative and Functional Human Neuroscience	James Gnatd, PhD Program Director, Systems and Cognitive Neuroscience, National Institute of Neurological Disorders and Stroke Karen David, PhD Program Director, BRAIN Initiative, (National Institutes of Health) & Systems and Cognitive Neuroscience, (National Institute of Neurological Disorders and Stroke)
13-Mar	07:30 - 08:30 AM	Pioneering Our Understanding of the Human Brain	Discovery Neuroscience and Humans	James Gnatd, PhD Program Director, Systems and Cognitive Neuroscience, National Institute of Neurological Disorders and Stroke
13-Mar	07:40 - 08:00 AM	Pioneering Our Understanding of the Human Brain	BRAIN Initiative Scientific Updates: How the Human Brain Learns to Learn	Elizabeth Buffalo, PhD Professor, Department of Physiology & Biophysics, Neuroscience Focus Group, University of Washington
13-Mar	08:00 - 08:20 AM	Pioneering Our Understanding of the Human Brain	BRAIN Initiative Scientific Updates: Deciphering the Neuronal Mechanisms of Human Episodic Memory at the Single-Neuron Level	Ueli Rutishauser, PhD Board of Governors Chair in Neuroscience, Director, Human Neurophysiology Research, Associate Professor, Neurosurgery, Neurology & Biomedical Sciences, Cedars-Sinai Medical Center
13-Mar	08:20 - 08:40 AM	Pioneering Our Understanding of the Human Brain	BRAIN Initiative Scientific Updates: Influence of Task Context on Motor Cortical Activity During Reaching and Grasping	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

13-Mar	08:40 - 09:00 AM	Pioneering Our Understanding of the Human Brain	BRAIN Initiative Scientific Updates: Mechanisms of Rapid, Flexible Cognitive Control in Human Prefrontal Cortex	Sameer Anil Sheth, MD, PhD Associate Professor, Vice-Chair of Clinical Research, Neurosurgery, Baylor College of Medicine
13-Mar	09:10 - 09:30 AM	Pioneering Our Understanding of the Human Brain	PANEL DISCUSSION: BRAIN Initiative Awardees	Elizabeth Buffalo, PhD Professor, Department of Physiology & Biophysics, Neuroscience Focus Group, University of Washington Ueli Rutishauser, PhD Board of Governors Chair in Neuroscience, Director, Human Neurophysiology Research, Associate Professor, Neurosurgery, Neurology & Biomedical Sciences, Cedars-Sinai Medical Center 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
13-Mar	09:30 - 09:50 AM	Pioneering Our Understanding of the Human Brain	Deep Brain Stimulation: Opportunities and Ethical Dilemmas	Rowshanak Hashemiyooun, PhD Clinical Scientist, Author, Consultant
13-Mar	10:00 - 10:20 AM	Pioneering Our Understanding of the Human Brain	Neuroethics: An Essential Partner for Neuroscience	Khara Ramos, PhD Director, Neuroethics Program, National Institute of Neurological Disorders and Stroke
13-Mar	10:20 - 10:40 AM	Pioneering Our Understanding of the Human Brain	Neuroethics: Ethical Issues in Research with Neural Devices with Humans	Saskia Hendriks, MD, PhD Department of Bioethics, Clinical Center, National Institutes of Health (NIH)
13-Mar	10:40 - 11:00 AM	Pioneering Our Understanding of the Human Brain	Neuroethics: Invasive Human Neurophysiological Recordings for Basic Science: Is Altruism Enough?	Nader Pouratian, MD, PhD Professor of Neurosurgery and Radiation Oncology and affiliated faculty in Bioengineering and Neuroscience, UCLA Medical Center & UCLA Brain Research Institute Ashley Feinsinger, PhD Adjunct Assistant professor, Department of Medicine, Affiliated faculty department of Philosophy, UCLA
13-Mar	11:00 - 11:20 AM	Pioneering Our Understanding of the Human Brain	Neuroethics: From Lab to Law; Neuroscience in the Courtroom	Francis Shen, JD, PhD Executive Director of the Harvard MGH Center for Law, Brain, and Behavior; Associate Professor of Law, McKnight Presidential Fellow, University of Minnesota

13-Mar	11:20 - 11:40 AM	Pioneering Our Understanding of the Human Brain	PANEL DISCUSSION: Neuroethics	<p>Khara Ramos, PhD Director, Neuroethics Program, National Institute of Neurological Disorders and Stroke</p> <p>Nader Pouratian, MD, PhD Professor of Neurosurgery and Radiation Oncology and affiliated faculty in Bioengineering and Neuroscience, UCLA Medical Center & UCLA Brain Research Institute</p> <p>Ashley Feinsinger, PhD Adjunct Assistant professor, Department of Medicine, Affiliated faculty department of Philosophy, UCLA</p> <p>Francis Shen, JD, PhD Executive Director of the Harvard MGH Center for Law, Brain, and Behavior; Associate Professor of Law, McKnight Presidential Fellow, University of Minnesota</p> <p>Saskia Hendriks, MD, PhD Department of Bioethics, Clinical Center, National Institutes of Health (NIH)</p>
13-Mar	11:50 - 12:00 PM	Pioneering Our Understanding of the Human Brain	Innovative Neurotechnologies: NIH Funding for Technology Development and Translation to Humans	Nick Langhals, PhD Program Director, Division of Translational Research, National Institute of Neurological Disorders and Stroke (NINDS)
13-Mar	12:00 - 12:20 PM	Pioneering Our Understanding of the Human Brain	Innovative Neurotechnologies: Early Feasibility Study of a Visual Cortical Prosthesis for the Blind: The Orion Visual Prosthesis System	Nader Pouratian, MD, PhD Professor of Neurosurgery and Radiation Oncology and affiliated faculty in Bioengineering and Neuroscience, UCLA Medical Center & UCLA Brain Research Institute
13-Mar	12:20 - 12:40 PM	Pioneering Our Understanding of the Human Brain	Innovative Neurotechnologies: RAVE: R Analysis and Visualization of Intracranial Encephalography	<p>Michael Beauchamp, PhD Professor, Vice Chair of Basic Research, Departments of Neurosurgery and Neuroscience, Director of the Core for Advanced MRI, Baylor College of Medicine</p> <p>John Magnotti, PhD Assistant Professor, Neurosurgery, Baylor College of Medicine</p>
13-Mar	12:40 - 01:00 PM	Pioneering Our Understanding of the Human Brain	Innovative Neurotechnologies: Human Brain Science; The Intersection of Translational Neurotechnology and Systems Neuroscience	Bijan Pesaran, PhD Associate Professor of Neural Science, New York University
13-Mar	01:00 - 01:20 PM	Pioneering Our Understanding of the Human Brain	Innovative Neurotechnologies: High-Resolution Recording and Non-Invasive Perturbation Tools for the Human Brain	György Buzsáki, PhD Biggs Professor of Neuroscience, NYU School of Medicine

13-Mar	01:20 - 01:40 PM	Pioneering Our Understanding of the Human Brain	Innovative Neurotechnologies: Merging Minds and Machines: Brain Computer Interfaces (BCIs) to Restore Movement and Communication for People with Paralysis	John Donoghue, PhD Founding Director of the Wyss Center for Bio and Neuroengineering
13-Mar	01:40 - 02:00 PM	Pioneering Our Understanding of the Human Brain	Clinical Updates: Towards Artificial Intelligence Based Adaptive Deep Brain Stimulation in Movement Disorders	Wolf-Julian Neumann, MD Clinician Scientist, Movement Disorders and Neuromodulation Unit at the Department of Neurology, Charité - Universitätsmedizin Berlin, Germany
13-Mar	02:00 - 02:20 PM	Pioneering Our Understanding of the Human Brain	Clinical Updates: Basal Ganglia-Cortical Loop Function During Speech	R. Mark Richardson, MD, PhD Associate Professor, Director, Adult Epilepsy & Movement Disorders Surgery, Director, Brain Modulation Laboratory, Faculty Member, University of Pittsburgh Brain Institute, Univ of Pittsburgh
13-Mar	02:20 - 02:40 PM	Pioneering Our Understanding of the Human Brain	Clinical Updates: Inducing Cortical Plasticity by Brain Stimulation and Prehabilitation	Juan A. Barcia, MD, PhD Professor and Head, Department of Neurosurgery, Hospital Clinico San Carlos and Universidad Complutense de Madrid
13-Mar	02:40 - 03:00 PM	Pioneering Our Understanding of the Human Brain	Clinical Updates: Closed Loop Deep Brain Stimulation in Parkinson's Disease Using Patient Specific Biomarkers and Therapeutic Windows	Helen Bronte-Stewart, MD, MS John E Cahill Family Professor in the department of Neurology and Neurological Sciences, Stanford
14-Mar	06:00 - 07:00 AM	Perspectives on Neuropsychiatric Disorders	Keynote Presentation: Environmental Risk Mechanisms for Psychiatric Disorders	Andreas Meyer-Lindenberg, MD, MSc, MBA Director of the Central Institute of Mental Health, Department of Psychiatry and Psychotherapy, University Medical Centre Mannheim
14-Mar	07:00 - 08:00 AM	Perspectives on Neuropsychiatric Disorders	Vulnerability to Stress as a Risk Factor for Major Mental Disorders	Anthony Grace, PhD Distinguished Professor of Neuroscience, Professor of Psychiatry and Psychology Department of Neuroscience, University of Pittsburgh
14-Mar	08:00 - 09:00 AM	Perspectives on Neuropsychiatric Disorders	Using Computational Psychiatry to Develop a Rigorous and Integrative Understanding of Psychiatric Disorders	Tiago V. Maia, PhD Associate Professor, Faculty of Medicine, University of Lisbon
14-Mar	09:00 - 10:00 AM	Perspectives on Neuropsychiatric Disorders	A Gene Expression Based Screening Platform for Mouse Models of Late-Onset Alzheimer's Disease	Greg Carter, PhD Associate Professor, The Jackson Laboratory

14-Mar	10:00 - 11:00 AM	Perspectives on Neuropsychiatric Disorders	Identifying Pattern Transitions of Mind and Brain in Psychotherapy: The Nonlinear Dynamics of Human Change Processes	Günter Schiepek, PhD Paracelsus Medical University: Institute of Synergetics and Psychotherapy Research, Salzburg, Austria
14-Mar	11:00 - 12:00 PM	Perspectives on Neuropsychiatric Disorders	Understanding Batten Disease Pathogenesis	Jonathan D. Cooper, PhD Professor of Pediatrics, Washington University School of Medicine, St Louis
14-Mar	12:00 - 01:00 PM	Emerging Roles of the Immune System in Brain Function and Behavioral Processes	Keynote Presentation: Infections and Inflammation as Possible Causes of Severe Mental Disorders - Paving the Way for new Treatment Targets	Michael Benros, MD, PhD Research Leader, Mental Health Care Copenhagen, Copenhagen University Hospital
14-Mar	01:00 - 02:00 PM	Emerging Roles of the Immune System in Brain Function and Behavioral Processes	Exploring the Link Between Infection and Mental Illness: Results From Nationwide Studies	Ole Köhler-Forsberg Aarhus University and Copenhagen University Hospitals, Denmark; Massachusetts General Hospital and Harvard University