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<tr>
<th>Date</th>
<th>Time</th>
<th>Track</th>
<th>Presentation Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>1-Jan</td>
<td>6:00-7:00 AM</td>
<td>NIH BRAIN Initiative: A Multidisciplinary Approach to Neuroscience</td>
<td>Acoustically Targeted Molecular Neuromodulation</td>
<td>Mikhail G. Shapiro, PhD  Professor of Chemical Engineering, Investigator, Heritage Medical Research Institute, California Institute of Technology</td>
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<tr>
<td>1-Jan</td>
<td>6:00-7:00 AM</td>
<td>Understanding the Scourge of Neurodegenerative Diseases and Dementia</td>
<td>Bridging the translational gap in rodent behavioral testing using touchscreens and the MouseBytes Open science data repository</td>
<td>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 &amp; Cell Biology</td>
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<td>1-Jan</td>
<td>6:00-7:00 AM</td>
<td>Understanding the Scourge of Neurodegenerative Diseases and Dementia</td>
<td>Deciphering the spreading of neuropathologies in neuronal circuits using a high capacity microfluidics platform</td>
<td>Sebastian Illes, PhD  Director of CNS research, Cellectricon AB</td>
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<td>1-Jan</td>
<td>6:00-7:00 AM</td>
<td>NIH BRAIN Initiative: A Multidisciplinary Approach to Neuroscience</td>
<td>Deep brain Recording and Stimulation of Real World Episodic Memory in Humans</td>
<td>Nanthia Suthana, PhD  Assistant Professor, David Geffen School of Medicine at UCLA</td>
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<tr>
<td>1-Jan</td>
<td>6:00-7:00 AM</td>
<td>NIH BRAIN Initiative: A Multidisciplinary Approach to Neuroscience</td>
<td>Ethical Challenges in Early Phase Brain Device Research</td>
<td>Lauren R. Sankary, JD, MA  Neuroethics Staff, Neurological Institute, Associate Director, Neuroethics Program, Center for Bioethics, Cleveland Clinic Center for Bioethics</td>
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<td>1-Jan</td>
<td>6:00-7:00 AM</td>
<td>NIH BRAIN Initiative: A Multidisciplinary Approach to Neuroscience</td>
<td>Improving the Precision and Targeting of Transcranial Magnetic Stimulation</td>
<td>Luis Gomez, PhD  Post-doctoral associate, Duke University</td>
</tr>
<tr>
<td>1-Jan</td>
<td>6:00-7:00 AM</td>
<td>Understanding the Scourge of Neurodegenerative Diseases and Dementia</td>
<td>Investigating the roles of the Hsp90 co-chaperone, STI1, in neuronal resilience during aging</td>
<td>Rachel E. Lackie, HBSc.  PhD Candidate in Neuroscience, Robarts Research Institute, The University of Western Ontario</td>
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<td>1-Jan</td>
<td>6:00-7:00 AM</td>
<td>NIH BRAIN Initiative: A Multidisciplinary Approach to Neuroscience</td>
<td>Multi-region Neural Network Models of Adaptive and Maladaptive Learning in the Brain</td>
<td>Kanaka Rajan, PhD  Assistant Professor, Department of Neuroscience &amp; Friedman Brain Institute, Icahn School of Medicine at Mount Sinai</td>
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<td>1-Jan</td>
<td>6:00-7:00 AM</td>
<td>NIH BRAIN Initiative: A Multidisciplinary Approach to Neuroscience</td>
<td>Neural Interfaces for Controlling Finger Movements</td>
<td>Cynthia Chestek, PhD Associate Professor of Biomedical Engineering, Electrical Engineering, Neuroscience and Robotics, University of Michigan</td>
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<tr>
<td>1-Jan</td>
<td>6:00-7:00 AM</td>
<td>NIH BRAIN Initiative: A Multidisciplinary Approach to Neuroscience</td>
<td>Real-Time Monitoring of Striatal GPCR Mediated cAMP Signaling Using Genetically Encoded Fluorescent Sensors</td>
<td>Shana M. Augustin, PhD Research fellow, National Institutes of Health (NIH)</td>
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<td>1-Jan</td>
<td>6:00-7:00 AM</td>
<td>Behavioral and Psychiatric Disorders</td>
<td>Selective D4R Ligands Reveal Structure-Activity Relationships that Engender Agonist Efficacy</td>
<td>Comfort A. Boateng, PhD Assistant Professor, High Point University</td>
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<tr>
<td>1-Jan</td>
<td>6:00-7:00 AM</td>
<td>NIH BRAIN Initiative: A Multidisciplinary Approach to Neuroscience</td>
<td>Sensing in a dynamic world: what the antennae of the fruit fly can teach us about sensation and the perception of movement</td>
<td>Marie P. Suver, PhD Postdoctoral Fellow, NYU Neuroscience Institute, NYU Langone Medical Center</td>
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| 11-Mar | 6:00-7:00 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 | 6:00-7:00 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 |
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| 11-Mar| 6:00-7:00 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| 7:30-8:30 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| 7:30-8:30 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| 9:00-10:00 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| 9:00-10:00 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 |
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<td>11-Mar</td>
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<td>NIH BRAIN Initiative: A Multidisciplinary Approach to Neuroscience</td>
<td>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 &amp; UCLA Brain Research Institute Sameer Anil Sheth, MD, PhD Associate Professor, Vice-Chair of Clinical Research, Neurosurgery, Baylor College of Medicine</td>
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<td>11-Mar</td>
<td>10:30-11:30 AM</td>
<td>NIH BRAIN Initiative: A Multidisciplinary Approach to Neuroscience</td>
<td>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 &amp; 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</td>
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<td>11-Mar</td>
<td>12:00-1:00 PM</td>
<td>NIH BRAIN Initiative: A Multidisciplinary Approach to Neuroscience</td>
<td>PANEL: A Neuroscience-Based Approach to Restoration of Sensorimotor Function After Spinal Cord Injury Robert Gaunt, PhD Assistant Professor, Rehab Neural Engineering Labs, University of Pittsburgh School of Medicine Michael Boninger, MD Tenured Professor &amp; UPMC Endowed Vice Chair, Department of Physical Medicine &amp; Rehabilitation; Senior Medical Director, Post-Acute Care, Health Service Division, UPMC Jennifer Collinger, PhD Assistant Professor, Department of Physical Medicine and Rehabilitation, University of Pittsburgh, Rehab Neural Engineering Labs, Biomedical Engineer, VA R&amp;D Center of Excellence</td>
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| 11-Mar| 12:00-1:00 PM | NIH BRAIN Initiative: A Multidisciplinary Approach to Neuroscience | PANEL: Cracking a Neural Circuit's Function Through High-Resolution Physiology, Connectomics, and Computational Modeling | Emre Aksay, PhD Associate Professor of Computational Neuroscience in the Department of Physiology and Biophysics at Weill Cornell Medicine  
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  
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  
Ashwin Vishwanathan, PhD Research Associate at the Princeton Neuroscience Institute |
| 11-Mar| 12:00-1:00 PM | NIH BRAIN Initiative: A Multidisciplinary Approach to Neuroscience | PANEL: Thought to action: developing brain machine interfaces to assist individuals with paralysis | 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  
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  
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  
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| 1:30-2:30 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. |</p>
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| 11-Mar | 1:30-2:30 PM  | NIH BRAIN Initiative: A Multidisciplinary Approach to Neuroscience          | 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 |
|        |               | PANEL: Dissecting the circuit logics in the amygdala underlying emotional learning | 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 | 1:30-2:30 PM  | NIH BRAIN Initiative: A Multidisciplinary Approach to Neuroscience          | 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 SkÅ‚odowska-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 |
Postdoctoral Research Associate, Princeton Neuroscience Institute  
Stephen Keeley, PhD  
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Adrian Wanner, PhD  
CV Starr Fellow at Princeton University  
Ilana Witten, PhD  
Associate Professor of Psychology and Neuroscience, Princeton |
| 11-Mar | 3:00-4:00 PM  | NIH BRAIN Initiative: A Multidisciplinary Approach to Neuroscience          | 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  
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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 |
|        |               | PANEL: A Team Multi-Disciplinary Approach to Understanding the Neural Circuit Dynamics Underlying Working Memory and Decision-Making | 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  
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Associate Professor of Psychology and Neuroscience, Princeton |
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<th>PANEL: Anatomical Characterization of Neuron Cell Types in the Mouse Brain</th>
</tr>
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|        |             |                                                               | 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 |