



| Date | Time | Track | Presentation Title | Speaker |
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| 25-Aug | 07:30 - 08:30 AM | Neurodegenerative Disorders - Impacts and Progress | Keynote Presentation: Development of Pharmacological Chaperones Targeting the Intrinsically Disordered State of Misfolding Proteins in Neurodegenerative Diseases | Gergely Tóth, PhD, MBA CEO and CSO, Cantabio Pharmaceuticals Inc. |
| 25-Aug | 09:00 - 10:00 AM | Integrating Theories of the Brain | Keynote Presentations: Current and Future Directions of the NIH BRAIN Initiative | James Gnatd, PhD Program Director, Systems and Cognitive Neuroscience, National Institute of Neurological Disorders and Stroke Grace Peng, PhD Director of Mathematical Modeling, Simulation and Analysis, National Institute of Biomedical Imaging and Bioengineering, National Institutes of Health John J. Ngai, PhD Director, NIH BRAIN Initiative Mohammad M. Ghassemi, PhD NIH Data Scholar, Assistant Professor of Computer Science and Engineering at Michigan State University (MSU) Susan Wright, PhD Program Director for Big Data and Computational Science, National Institute on Drug Abuse (NIDA), Division of Neuroscience and Behavior (DNB) Hsiao Yu (Christina) Fang, PhD Scientific Program Manager in the NINDS Systems and Cognitive Neuroscience Cluster |
| 25-Aug | 10:30 - 11:30 AM | Neurodegenerative Disorders - Impacts and Progress | A Novel Blood-Based Biomarker for Silent Cerebral Edema and Brain Vascular Injury | Jason D. Hinman, PhD, MD Associate Professor, Vice Chair of Research, Department of Neurology, David Geffen School of Medicine, UCLA |
| 25-Aug | 10:30 - 11:30 AM | Integrating Theories of the Brain | Methods for Culturing Primary Adult CNS Neurons | Erna van Niekerk, Ph.D. Department of Neuroscience, Center for Neural Repair University of California - San Diego |

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| 25-Aug | 12:00 - 01:00 PM | Integrating Theories of the Brain | Debate Discussion: Can We Generate an Organizing Theory of the Brain? | Florian Engert, PhD Professor of Molecular and Cellular Biology, Harvard University David Kleinfeld, PhD Dr. George Feher Endowed Chair in Experimental Biophysics, Distinguished Professor, UC San Diego Mohammad M. Ghassemi, PhD NIH Data Scholar, Assistant Professor of Computer Science and Engineering at Michigan State University (MSU) |
| 25-Aug | 01:30 - 02:30 PM | Integrating Theories of the Brain | Spatial Context Matters: Molecular Cartography™ to Study Gene Expression Changes in the Brain | Jeroen Aerts, PhD Customer Technology Advisor at Resolve Biosciences |
| 25-Aug | 01:30 - 02:30 PM | Neurodegenerative Disorders - Impacts and Progress | Spatial Transcriptomics of Alzheimer's Disease Mouse Models with and Without Trem2R47H Mutation. | Frances Edwards, PhD Professor of Neurodegeneration, Department of Neuroscience Physiology and Pharmacology, University College London |
| 25-Aug | 12:00 - 12:45 AM | Neurodegenerative Disorders - Impacts and Progress | A Novel Mouse Model of Ataxia Telangiectasia for Testing Small Molecule Readthrough (SMRT) Compounds | Paul Mathews, PhD Investigator & Co-Director of the Neurotherapeutics IWI, Lundquist Institute (Formerly "LA BioMed"); Assistant Professor, David Geffen School of Medicine at UCLA Department of Neurology |
| 25-Aug | 12:00 - 12:45 AM | Neurodegenerative Disorders - Impacts and Progress | Alpha-synuclein Aggregation in Parkinson's Disease - Is it Relevant and How can we Model it? | Andrii Domanskyi, PhD Senior Research Scientist, Orion Pharma |
| 25-Aug | 12:00 - 12:45 AM | Neurodegenerative Disorders - Impacts and Progress | Alpha-Synuclein Strains in Synucleinopathies | Wouter Peelaerts, PhD Neuroscientist and Senior Post-Doctoral Fellow, FWO Flanders at KU Leuven |
| 25-Aug | 12:00 - 12:45 AM | Integrating Theories of the Brain | Can Deep Learning Produce a General Model of Natural Sound Encoding by Auditory Cortex? | Stephen V. David, Ph.D. Associate Professor, Oregon Hearing Research Center, Oregon Health and Science University |
| 25-Aug | 12:00 - 12:45 AM | Integrating Theories of the Brain | Can Multiscale Computer Modeling Save the Human Genome Project?: Climbing the Omes for Schizophrenia | William Lytton, MD SUNY Distinguished Professor, SUNY Downstate Health Sciences University |

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| 25-Aug | 12:00 - 12:45 AM | Neurodegenerative Disorders - Impacts and Progress | Characterizing Pathogenic Protein Aggregates for Utilization as Molecular Tools to Accelerate Neurodegenerative Disease Research | Jacob McPhail, PhD R&D Scientist, StressMarq Biosciences Inc. |
| 25-Aug | 12:00 - 12:45 AM | Integrating Theories of the Brain | Cortical Chimera States Predict Epileptic Seizures | Terrence J Sejnowski, PhD Francis Crick Professor, The Salk Institute for Biological Studies; Distinguished Professor of Biology and Computer Science and Engineering, University of California, San Diego |
| 25-Aug | 12:00 - 12:45 AM | Integrating Theories of the Brain | Dimensions of variability in circuit models of cortex | Brent Doiron, PhD Professor of Neurobiology and Statistics, University of Chicago |
| 25-Aug | 12:00 - 12:45 AM | Integrating Theories of the Brain | Learning Electrical Connectomes of Neuropsychiatric Disorders and Behaviors | David Carlson, PhD Associate Professor, Duke University |
| 25-Aug | 12:00 - 12:45 AM | Integrating Theories of the Brain | Machine Learning Approaches to Characterizing and Interpreting Brain-wide Dynamics | Shella Keilholz, Ph.D. Professor, Emory University/Georgia Tech Biomedical Engineering Department |
| 25-Aug | 12:00 - 12:45 AM | Neurodegenerative Disorders - Impacts and Progress | Mechanistic Insight into Tandem Repeat Expansions in Amyotrophic Lateral Sclerosis | Paul Valdmanis, PhD Assistant Professor, Division of Medical Genetics, Department of Medicine University of Washington |
| 25-Aug | 12:00 - 12:45 AM | Integrating Theories of the Brain | Mechanistic Models of Cognition: from Perception to Navigation to Semantic Development | Surya Ganguli, PhD Associate Professor, Department of Applied Physics, Stanford University |
| 25-Aug | 12:00 - 12:45 AM | Integrating Theories of the Brain | Mine Your Own View: A New Self-Supervised Learning Approach for Building Stable Representations of Neural Activity | Eva L. Dyer, PhD Assistant Professor of Biomedical Engineering, Georgia Institute of Technology; Emory University |
| 25-Aug | 12:00 - 12:45 AM | Integrating Theories of the Brain | Null Models of Large Neural Networks | Ilya Nemenman Professor of Physics and Biology, Emory University |
| 25-Aug | 12:00 - 12:45 AM | Integrating Theories of the Brain | Orchestrating the Brain for Social Behavior | Richard Tsien, PhD Chair, Neuroscience and Physiology; Director, Neuroscience Institute; NYU Langone Health; NYU Grossman School of Medicine |

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| 25-Aug | 12:00 - 12:45 AM | Mental Health in the Age of COVID-19 | Positive Psychology and Well-Being for Clinicians and Consumers: Addressing Burnout, Compassion Fatigue and Secondary Trauma in the COVID-19 Era | Dorit Saberi, PhD Supervising Clinical Psychologist, Harbor UCLA Medical Center, Clinical Director- SAFE HARBOR Trauma Recovery Center; Associate Professor, UCLA- David Geffen School of Medicine |
| 25-Aug | 12:00 - 12:45 AM | Integrating Theories of the Brain | Rational Thoughts in Neural Codes | Xaq Pitkow, Ph.D. Associate Professor, Rice University |
| 25-Aug | 12:00 - 12:45 AM | Mental Health in the Age of COVID-19 | SARS-CoV-2 Effects on the CNS | Eric Song, MD PhD Candidate |
| 25-Aug | 12:00 - 12:45 AM | Integrating Theories of the Brain | Sequences and Modularity of Dynamic Attractors in Inhibition-Dominated Neural Networks | Carina Curto Professor and Co-Associate Head of Graduate Studies, Department of Mathematics Pennsylvania State University |
| 25-Aug | 12:00 - 12:45 AM | Neurodegenerative Disorders - Impacts and Progress | The Long Hangover: Adolescent Intermittent Ethanol's Effects on Hippocampal Neuroimmune and Cell Death Markers, Reversal by Donepezil | Kati Healey, MA, PhD Postdoctoral Associate, Duke University |