



| Date  | Time             | Track                                                                                                                                                      | Presentation Title                                                                                                                                                                                    | Speaker                                                                                                                                                                                                                         |
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| 6-Mar | 06:00 - 07:00 AM | New Horizons in Neurodegenerative Disease Research                                                                                                         | Panel Presentation: A Blood Test for Alzheimer's Disease - Thinking Beyond a Diagnosis with Live Q&A                                                                                                  | Alex Forrest-Hay<br>VP of Sales, Alamar Biosciences<br>Nicholas Ashton, PhD<br>Associate Professor of Neurochemistry, University of Gothenburg                                                                                  |
| 6-Mar | 07:30 - 08:30 AM | New Horizons in Neurodegenerative Disease Research                                                                                                         | Keynote Panel Presentation: The World is Not Flat - Leveraging 3D Whole-Brain Imaging of Pathological $\alpha$ -Synuclein Spreading in a Mouse Model of Early-Stage Parkinson's Disease with Live Q&A | Yasir Gallero-Salas, PhD<br>Senior Scientist, 3D Imaging, Gubra<br>Henrik Björk Hansen, PhD<br>Scientific Director, Sales & Marketing, Gubra                                                                                    |
| 6-Mar | 09:00 - 10:00 AM | New Horizons in Neurodegenerative Disease Research                                                                                                         | Keynote Presentation: Wide-Spread Unappreciated Alpha-Synuclein Aggregates in CNS - a Cause of Symptoms, Caution and Optimism in Parkinson's Disease and Lewy Body Dementia? With Live Q&A            | Prof. Poul Henning Jensen, M.D., Dr. Med. Sci.<br>Aarhus University, Dept. of Biomedicine (West), Director, DANDRITE, Danish Research Institute of Translational Neuroscience, (Nordic EMBL partnership for Molecular Medicine) |
| 6-Mar | 10:30 - 11:30 AM | NIH BRAIN Initiative: Brain-Behavior Quantification Synchronization presents - Advancing the Understanding of How the Brain Gives Rise to Complex Behavior | Keynote Presentation: Tracking Social Behavior and Its Neural Properties in a Smart Aviary with Live Q&A                                                                                              | Marc F. Schmidt, PhD<br>Professor of Biology and Neuroscience Program, University of Pennsylvania                                                                                                                               |
| 6-Mar | 11:30 - 12:30 PM | NIH BRAIN Initiative: Brain-Behavior Quantification Synchronization presents - Advancing the Understanding of How the Brain Gives Rise to Complex Behavior | Keynote Presentation: Using Computers to Characterize and Quantify Language and Face Expression in Schizophrenia with Live Q&A                                                                        | Cheryl M. Corcoran, MD<br>Associate Professor of Psychiatry, Program Leader in Psychosis Risk, Icahn School of Medicine in Mount Sinai                                                                                          |

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| 6-Mar | 12:30 - 01:30 PM | NIH BRAIN Initiative: Brain-Behavior Quantification Synchronization presents - Advancing the Understanding of How the Brain Gives Rise to Complex Behavior | Keynote Presentation: Ethical and Societal Considerations of the Collection, Management and Use of Multidimensional Data with Live Q&A | Laura Y. Cabrera, PhD<br>Dorothy Foehr Huck and J. Lloyd Huck Chair in Neuroethics, Associate Professor of Engineering Science and Mechanics, Associate Professor of Philosophy and Bioethics, Associate Director Neuroethics and Engagement, Center for Neural Engineering, Senior Research Associate, Rock Ethics Institute, The Pennsylvania State University |
| 6-Mar | 01:30 - 02:30 PM | NIH BRAIN Initiative: Brain-Behavior Quantification Synchronization presents - Advancing the Understanding of How the Brain Gives Rise to Complex Behavior | Keynote Presentation: Conditions Favoring the Production and Promotion of Scientific Innovation with Live Q&A                          | Brian Uzzi, PhD<br>Richard L. Thomas Professor of Leadership, Kellogg School of Management & Organizations Department, Co-Director, Northwestern Institute on Complex Systems (NICO), Northwestern University                                                                                                                                                    |

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| 6-Mar | 02:30 - 03:30 PM | NIH BRAIN Initiative: Brain-Behavior Quantification Synchronization presents - Advancing the Understanding of How the Brain Gives Rise to Complex Behavior | Plenary Discussion: Envisioning Transdisciplinary Behavioral Science with Live Q&A | <p>Cheryl M. Corcoran, MD<br/>Associate Professor of Psychiatry, Program Leader in Psychosis Risk, Icahn School of Medicine in Mount Sinai</p> <p>Marc F. Schmidt, PhD<br/>Professor of Biology and Neuroscience Program, University of Pennsylvania</p> <p>Nicholas Szczecinski, PhD<br/>Assistant Professor, Director, Neuro-Mechanical Intelligence Laboratory, Dept. of Mechanical, Materials, and Aerospace Engineering, Statler College of Engineering and Mineral Resources, West Virginia University</p> <p>Laura Y. Cabrera, PhD<br/>Dorothy Foehr Huck and J. Lloyd Huck Chair in Neuroethics, Associate Professor of Engineering Science and Mechanics, Associate Professor of Philosophy and Bioethics, Associate Director Neuroethics and Engagement, Center for Neural Engineering, Senior Research Associate, Rock Ethics Institute, The Pennsylvania State University</p> <p>Gaetano R. Lotrecchiano, EdD, PhD<br/>Associate Professor of Clinical Research and Leadership, Discipline Lead, Team Science, Leadership Education in Neurodevelopmental Disabilities, Children's National Medical Center, George Washington University, School of Medicine and Health Sciences</p> <p>Alexandra Rosati, PhD<br/>Associate Professor of Psychology and Anthropology, University of Michigan</p> <p>Satrajit Ghosh, PhD<br/>Director, Open Data in Neuroscience Initiative, Principal Research Scientist, McGovern Institute for Brain Research at MIT, Assistant Professor of Otolaryngology - Head and Neck Surgery at Harvard Medical School</p> <p>Dr. Dana Schloesser<br/>Health Science Administrator, The Office of Behavioral and Social Sciences Research</p> <p>Holly Moore, PhD<br/>National Institute of Drug Abuse Program Officer in Behavioral and Cognitive Neuroscience Branch</p> |
| 6-Mar | On Demand        | NIH BRAIN Initiative: Brain-Behavior Quantification Synchronization presents - Advancing the Understanding of How the Brain Gives Rise to Complex Behavior | A Multimodal Neuroprosthesis for Speech Decoding and Avatar Control                | <p>Kaylo Littlejohn<br/>Electrical Engineering and Computer Science, PhD student UC Berkeley</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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| 6-Mar | On Demand | NIH BRAIN Initiative: Brain-Behavior Quantification Synchronization presents - Advancing the Understanding of How the Brain Gives Rise to Complex Behavior | An Emerging Multimodal Ecosystem for Psychopathology Research                                        | Satrajit Ghosh, PhD<br>Director, Open Data in Neuroscience Initiative, Principal Research Scientist, McGovern Institute for Brain Research at MIT, Assistant Professor of Otolaryngology - Head and Neck Surgery at Harvard Medical School                                                     |
| 6-Mar | On Demand | NIH BRAIN Initiative: Brain-Behavior Quantification Synchronization presents - Advancing the Understanding of How the Brain Gives Rise to Complex Behavior | Automatic Monitoring of Neural Activity with Single-Cell Resolution in Behaving Hydra                | Alison Hanson, MD, PhD<br>Postdoctoral Scientist, Rafael Yuste Laboratory, Department of Psychiatry, Department of Biological Sciences, Neurotechnology Center, Columbia University, New York State Psychiatric Institute                                                                      |
| 6-Mar | On Demand | NIH BRAIN Initiative: Brain-Behavior Quantification Synchronization presents - Advancing the Understanding of How the Brain Gives Rise to Complex Behavior | B-SOiD Automated Quantification of Naturalistic Behaviors with Supervised or Unsupervised Approaches | Eric Yttri, PhD<br>Eberly Family Associate Professor, Biological Science, Carnegie Mellon University                                                                                                                                                                                           |
| 6-Mar | On Demand | NIH BRAIN Initiative: Brain-Behavior Quantification Synchronization presents - Advancing the Understanding of How the Brain Gives Rise to Complex Behavior | Cog Néuro GO: Capturing and Enhancing Episodic Memories Made in the Wild                             | Cory Inman, PhD<br>Assistant Professor, Director, Immersive Neuromodulation and Neuroimaging Lab, Department of Psychology, Neuroscience Program, University of Utah                                                                                                                           |
| 6-Mar | On Demand | NIH BRAIN Initiative: Brain-Behavior Quantification Synchronization presents - Advancing the Understanding of How the Brain Gives Rise to Complex Behavior | Complexity Skills Development for Transdisciplinary Knowledge Producing Teams (TDKPTs)               | Gaetano R. Lotrecchiano, EdD, PhD<br>Associate Professor of Clinical Research and Leadership, Discipline Lead, Team Science, Leadership Education in Neurodevelopmental Disabilities, Children's National Medical Center, George Washington University, School of Medicine and Health Sciences |
| 6-Mar | On Demand | NIH BRAIN Initiative: Brain-Behavior Quantification Synchronization presents - Advancing the Understanding of How the Brain Gives Rise to Complex Behavior | Decomposing EEG components of Memory Processing                                                      | Virginia de Sa, PhD<br>Professor, Cognitive Science, HDSI Chancellor's Endowed Chair, Director, Halicioglu Data Science Institute, UC San Diego                                                                                                                                                |
| 6-Mar | On Demand | NIH BRAIN Initiative: Brain-Behavior Quantification Synchronization presents - Advancing the Understanding of How the Brain Gives Rise to Complex Behavior | Dynamic Scaling and Synthetic Nervous Systems: Two Frameworks for Building Robots that Model Animals | Nicholas Szczecinski, PhD<br>Assistant Professor, Director, Neuro-Mechanical Intelligence Laboratory, Dept. of Mechanical, Materials, and Aerospace Engineering, Statler College of Engineering and Mineral Resources, West Virginia University                                                |

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| 6-Mar | On Demand | NIH BRAIN Initiative: Brain-Behavior Quantification Synchronization presents - Advancing the Understanding of How the Brain Gives Rise to Complex Behavior | Ethological Neurobehavioral Investigations in Obsessive-Compulsive Disorder                                 | Nicole Provenza, PhD<br>Assistant Professor of Neurosurgery, Baylor College of Medicine                                                                                                                                                                                                                                                                                      |
| 6-Mar | On Demand | NIH BRAIN Initiative: Brain-Behavior Quantification Synchronization presents - Advancing the Understanding of How the Brain Gives Rise to Complex Behavior | Flexible Minds, from Play in Rats to Wild Cognition                                                         | Juan Ignacio Sanguinetti Scheck, PhD<br>HFSP Postdoctoral Fellow Harvard University, Incoming Assistant Professor University of Pennsylvania                                                                                                                                                                                                                                 |
| 6-Mar | On Demand | NIH BRAIN Initiative: Brain-Behavior Quantification Synchronization presents - Advancing the Understanding of How the Brain Gives Rise to Complex Behavior | Infant Motor Behavior: Potential and Challenges for Advanced Sensing and Analysis of Multi-Dimensional Data | Beth A. Smith, PT, DPT, PhD<br>Associate Professor of Pediatrics, Developmental Neuroscience and Neurogenetics Program, The Saban Research Institute, Division of Developmental-Behavioral Pediatrics, Children's Hospital Los Angeles, Department of Pediatrics, Keck School of Medicine, University of Southern California, Director, Infant Neuromotor Control Laboratory |
| 6-Mar | On Demand | NIH BRAIN Initiative: Brain-Behavior Quantification Synchronization presents - Advancing the Understanding of How the Brain Gives Rise to Complex Behavior | Integrative Approaches to Cognition, Behavior, and Physiology in Semi-Free-Ranging Chimpanzees              | Alexandra Rosati, PhD<br>Associate Professor of Psychology and Anthropology, University of Michigan                                                                                                                                                                                                                                                                          |
| 6-Mar | On Demand | NIH BRAIN Initiative: Brain-Behavior Quantification Synchronization presents - Advancing the Understanding of How the Brain Gives Rise to Complex Behavior | Motion Analytics: Exploring Movement in Nature and Medicine                                                 | Galit Pelled, PhD<br>Professor, Mechanical Engineering, Neuroscience and Radiology, Michigan State University                                                                                                                                                                                                                                                                |
| 6-Mar | On Demand | New Horizons in Neurodegenerative Disease Research                                                                                                         | Mouse Models of Alzheimer's Disease: New Behavioral Approaches                                              | Professor Bettina Platt, PhD<br>Neuroscience Lead & Chair in Translational Neuroscience, School of Medicine, Medical Sciences & Nutrition, Institute of Medical Sciences, University of Aberdeen                                                                                                                                                                             |
| 6-Mar | On Demand | NIH BRAIN Initiative: Brain-Behavior Quantification Synchronization presents - Advancing the Understanding of How the Brain Gives Rise to Complex Behavior | Neural Circuits for Social Competence                                                                       | Nancy Padilla-Coreano, PhD<br>Neuroscientist and Assistant Professor, University of Florida                                                                                                                                                                                                                                                                                  |

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| 6-Mar | On Demand | NIH BRAIN Initiative: Brain-Behavior Quantification Synchronization presents - Advancing the Understanding of How the Brain Gives Rise to Complex Behavior | Neural Mechanisms of Performance Evaluation in Singing Birds                                                          | Vikram Gadagkar, PhD<br>Assistant Professor, Department of Neuroscience, Mortimer B. Zuckerman Mind Brain Behavior Institute, Columbia University       |
| 6-Mar | On Demand | NIH BRAIN Initiative: Brain-Behavior Quantification Synchronization presents - Advancing the Understanding of How the Brain Gives Rise to Complex Behavior | Non-invasive, Integrated Monitoring of Rodent Physiology and Behaviors Using Guided Ultrasonic Waves                  | Shivashankar Peruvazhuthi, PhD<br>Postdoctoral Fellow, Department of Civil, Environmental, and Architectural Engineering, University of Texas at Austin |
| 6-Mar | On Demand | New Horizons in Neurodegenerative Disease Research                                                                                                         | Patient Specific Brain Organoids for In Vitro Modeling of Parkinson's Disease                                         | Gemma Gomez Giro, BSc, MSc, PhD<br>Lead Project Scientist, OrganoTherapeutics                                                                           |
| 6-Mar | On Demand | NIH BRAIN Initiative: Brain-Behavior Quantification Synchronization presents - Advancing the Understanding of How the Brain Gives Rise to Complex Behavior | Psychophysiological and Behavioral Evidence of Deficits in Sensitivity to Reward Magnitude in Substance Use Disorders | Muhammad A. Parvaz, PhD<br>Psychophysiological and Behavioral Evidence of Deficits in Sensitivity to Reward Magnitude in Substance Use Disorders        |
| 6-Mar | On Demand | NIH BRAIN Initiative: Brain-Behavior Quantification Synchronization presents - Advancing the Understanding of How the Brain Gives Rise to Complex Behavior | Quantifying Behavior Using Deep Learning                                                                              | Talmo Pereira, PhD<br>Salk Fellow, Principal Investigator, Salk Institute for Biological Studies                                                        |
| 6-Mar | On Demand | NIH BRAIN Initiative: Brain-Behavior Quantification Synchronization presents - Advancing the Understanding of How the Brain Gives Rise to Complex Behavior | Reconstructing the Neural Code for Real World Face Perception                                                         | Avniel Ghuman, PhD<br>Associate Professor of Neurological Surgery, Faculty in the Center for the Neural Basis of Cognition, University of Pittsburgh    |
| 6-Mar | On Demand | NIH BRAIN Initiative: Brain-Behavior Quantification Synchronization presents - Advancing the Understanding of How the Brain Gives Rise to Complex Behavior | Sex Differences in the Capuchin Monkey Brain                                                                          | Olivia Reilly, PhD<br>NIH Postdoctoral Fellow, Department of Human Evolutionary Biology, Harvard University                                             |

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| 6-Mar | On Demand | Artificial Intelligence in Neuroscience and Disease                                                                                                        | Towards an Inter-Personalized Computational Psychiatry                                                                     | Guillaume Dumas, Meng, PhD, HDR<br>Associate Professor, Computational Psychiatry, Faculty of Medicine, Université de Montréal, Principal Investigator, Precision Psychiatry and Social Physiology Laboratory, CHU Sainte-Justine Research Center |
| 6-Mar | On Demand | NIH BRAIN Initiative: Brain-Behavior Quantification Synchronization presents - Advancing the Understanding of How the Brain Gives Rise to Complex Behavior | Towards the Neuroethology of Vocal Communication in the Mongolian Gerbil                                                   | Alex Williams, PhD<br>Assistant Professor, Center for Neural Science at NYU, Associate Research Scientist and Project Leader at the Flatiron Institute                                                                                           |
| 6-Mar | On Demand | NIH BRAIN Initiative: Brain-Behavior Quantification Synchronization presents - Advancing the Understanding of How the Brain Gives Rise to Complex Behavior | Transforming Neurobehavioral Science: The NIH BRAIN Initiative's Brain-Behavior Quantification and Synchronization Program | Dr. Dana Schloesser<br>Health Science Administrator, The Office of Behavioral and Social Sciences Research                                                                                                                                       |
| 6-Mar | On Demand | NIH BRAIN Initiative: Brain-Behavior Quantification Synchronization presents - Advancing the Understanding of How the Brain Gives Rise to Complex Behavior | Understanding Brain-Behavior-Environment Interactions in a New Model System for Neuroscience                               | Mansi Srivastava, PhD<br>Professor of Organismic and Evolutionary Biology, Curator in Invertebrate Zoology, Department of Organismic and Evolutionary Biology, Museum of Comparative Zoology, Harvard University                                 |
| 6-Mar | On Demand | NIH BRAIN Initiative: Brain-Behavior Quantification Synchronization presents - Advancing the Understanding of How the Brain Gives Rise to Complex Behavior | Untangling Brain-wide Interactions Using Data-Constrained Modeling                                                         | Kanaka Rajan, PhD<br>Associate Professor, Investigator, Department of Neurobiology, Computational Neuroscientist, Harvard University and Kempner Institute                                                                                       |
| 6-Mar | On Demand | New Horizons in Neurodegenerative Disease Research                                                                                                         | Use of Human Stem Cell Models of Neurological Disease to Advance Drug Discovery                                            | Clare Jones, PhD<br>Chief Scientific Officer, Talisman Therapeutics                                                                                                                                                                              |
| 6-Mar | On Demand | NIH BRAIN Initiative: Brain-Behavior Quantification Synchronization presents - Advancing the Understanding of How the Brain Gives Rise to Complex Behavior | Visualizing Gravity Sensation                                                                                              | Yunlu Zhu, PhD<br>Postdoctoral Fellow, Leon Levy Fellow, Neuroscience Institute, New York University Grossman School of Medicine                                                                                                                 |
| 6-Mar | On Demand | New Horizons in Neurodegenerative Disease Research                                                                                                         | Visualizing Protein Aggregates at the Single-Molecule Level                                                                | Mathew H. Horrocks, PhD<br>Senior Lecturer in Biophysics, School of Chemistry, University of Edinburgh                                                                                                                                           |

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| 6-Mar | On Demand | NIH BRAIN Initiative: Brain-Behavior Quantification Synchronization presents - Advancing the Understanding of How the Brain Gives Rise to Complex Behavior | What can the Body Tell Us About the Brain: Machine Learning for Automation | Shreya Saxena, PhD<br>Assistant Professor, Biomedical Engineering & Wu Tsai Institute, Yale University |
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