Schedule for the 30th Annual Society on Neuroimmune Pharmacology (SNIP) Conference	
Sunday, May 3rd. 2026	
12:00 – 5:30 PM	**Registration Open**
1:00 - 2:45 PM (Ballroom)	**Preconference Workshop: Single Cell HIV and SUD Effects on the Brain: SCORCH Consortium Progress** **Co-Moderators:** John Satterlee, Ph.D., NIDA/NIH, MD and Howard Fox, M.D., Ph.D., University of Nebraska Medical Center, Omaha, NE John Satterlee, PhD, Program Officer, NIDA, NIH **Overview of the SCORCH Consortium** Meng Niu, PhD, Assistant Professor, University of Nebraska Medical Center, Omaha, NE **Single-Nucleus Detection of Rare HIV-Infected Cells Defines the Cellular Landscape of HIV Persistence Iin the Human Brain.** Shilpa Buch, PhD, Professor, University of Nebraska Medical Center, Omaha, NE **Single-Cell Transcriptomic Profiling of Brain Regions in SIV-Infected and Cocaine Exposed Non-Human Primates** Xioake Xu, Ph.D., Research Associate, Computer Science and Artificial Intelligence Lab, Massachusetts Institute of Technology, Cambridge, MA **Single-Cell Multiomic Dissection of HIV In the Context of Substance Use Disorder Across Multiple Brain Regions** Hagen Tilgner, Ph.D., Associate Professor, Weill Cornell Graduate School of Medical Sciences, NYC, NY **Single-Cell Long-Read Atlas of Hippocampal SIV infection, Antiretroviral Therapy and Chronic Morphine Exposure Reveals Cell-Type-Resolved Splicing Dysregulation**
2:45-3:00 PM (Atrium)	**Coffee Break**
3:00 – 4:30 PM (Ballroom)	Alyssa Wilson, Ph.D. Assistant Professor, Mount Sinai School of Medicine, NYC, NY **Changing Transcriptional Impacts of SUD & HIV Alone Vs. In Combination On Human Ventral Midbrain Neurons & Microglia** Owen White, MD, Professor, University of Maryland School of Medicine, Maryland, Baltimore, MD **The SCORCH Consortium Data Coordinating Center.** Seth Ament, PhD, Associate Professor, University of Maryland School of Medicine, Baltimore, MD **A Comparative Multi-Omic and Spatial Atlas for the Interacting Effects of HIV Infection and Substance Use in the Ventral Striatum of Humans, Macaques, Rats and Mice.** **Summary Discussion & Q&As**
4:30 – 5:30 PM (Atrium)	**Break**
5:30- 7:30 PM	**Early Career Investigator Travel Award (ECITA) Poster Session and Meet & Greet** **Dinner on your own**
Monday, May 4th, 2026	
7:00-8:00 AM (Atrium)	**Breakfast**
8:00 AM– 5:00 PM	**Registration**
8:00 – 8:15 AM (Ballroom)	**Welcome from the President:** Linda Chang, MD, MS, University of Maryland School of Medicine, Baltimore, MD
8:15 – 9:45 AM (Ballroom)	**Symposium 1: Dopamine Neurotransmission: New Frontiers in Intersystemic Signaling and Psychostimulant Regulation** **Co-Chairs:** Habibeh Khoshbouei, PhD, Professor and Vice Chair, University of Florida School of Medicine, and Peter J. Gaskill, PhD, Associate Professor, Drexel University College of Medicine

	Angela Carter, PhD, Assistant Professor, University of Alabama at Birmingham, Birmingham, AL **The Microbiome Controls Dopamine Levels in Response to Amphetamines via Regulation of the Dopamine Transporter** Peter J. Gaskill, PhD, Associate Professor, Drexel University College of Medicine, Philadelphia, PA **Dopamine Dysregulates Mitochondrial Metabolism in Microglia to Increase Inflammasome Activity** Habibeh Khoshbouei, PhD, Professor, University of Florida School of Medicine, Gainesville, FL **TNF-α Inhibition Attenuates Methamphetamine-Induced Dopamine Transmission and Self-Administration** George R. Uhl, MD, PhD, Chief of Neurology at the Baltimore VA Medical Center, Professor, University of Maryland School of Medicine, Baltimore, MD **Drugging PTPRD, A Novel Target for Stimulant Use Disorders**
9:45 – 10:00 AM (Atrium)	**Break**
10:00 -11:30 AM (Ballroom)	**Symposium 2: Presidential Symposium: Neuroimaging Advances and A New Mouse Model for Research in HIV and Other Brain Disorders** **Chair:** Linda Chang, MD, MS, Professor, University of Maryland School of Medicine, Baltimore, MD Beau Ances, MD, PhD, Daniel J Brennan Endowed Professor of Neurology, Washington University in Saint Louis, Saint Louis, MO **Decoding the Heterogeneity of HIV's Impact on The Brain: The Power of Advanced Neuroimaging** Peiying Liu, PhD, Professor, University of Maryland School of Medicine, Baltimore, MD **Cerebrovascular Reactivity in Vascular Cognitive Impairment and Dementia (VCID) and in HIV-Associated Neurocognitive Disorders (HAND)** Verma, Ajay, MD, PhD, General Partner, Formation Venture Engineering, Beverly, MA 01915 CEO, Twilight Bioscience, Beverly, MA 01915. **Intrathecal Drug Delivery: Imaging Insights for Neuroimmune Pharmacology** Zhang Chen, PhD, Postdoctoral Researcher and Howard Gendelman, MD, Chair and Professor, University of Nebraska Medical Center, Omaha, NE **Immune Transformation of Humanized CD4/CCR5/C1qbp/MHC Mice Facilitates Productive HIV-1 Infection**
11:30-12:15 PM (Ballroom)	**Plenary Keynote Lecture** **Introduction of speaker:** Linda Chang, MD, MS, Professor, University of Maryland School of Medicine, Baltimore, MD Nora Volkow, MD, Director of the National Institute on Drug Abuse, NIDA/NIH, Bethesda, MD **Neuroscience Research Priorities for NIDA's HIV Research Program**
12:15-1:15 PM (Atrium)	**Lunch Break (on your own)**
1:15 – 2:45 PM (Ballroom)	**Symposium 3 – Early Career Investigator Travel Awardees (ECITA) – Also Presented as Posters** **Co-Chairs:** Jerel A. Fields, PhD, Associate Professor, University of California at San Diego, CA; Irma "Lisa" Cisneros, PhD, Assistant Professor UTMB, Galveston, TX 1. Agarwal Yash, BS, Dept. Pharmacology and Physiology, Drexel University College of Medicine **Dopaminergic Modulation of Viral Replication In HIV-Infected IPSC-Derived Organoids Exposed to Stimulant Drugs** **2.** Aitizaz Ahsan, PhD, University of Nebraska Medical Center, Omaha, NE **Hydrogen Sulfide Rescues Microglia from HIV Tat-driven Ferroptosis: Implications for HIV-Associated Neuroinflammation** 3. Zainab Al Shakarchi, MS, University of Florida College of Medicine, Gainesville, FL **Development of a New Approach Method (NAM) to examine BBB integrity and ABC Efflux Transporter Activity and Expression in the Context of HIV Antiretroviral Therapy** 4. Shaurav Bhattariai, MS, University of Nebraska Medical Center, Omaha, NE **HIV-1 drives Alzheimer's Disease Pathologies in APP Knock-In Mice**

	5. Bhaskar Birru, PhD, University of Florida College of Medicine, Gainesville, FL **Development of the First Microphysiological System for The Study of the Blood-Cerebrospinal Fluid Barrier Interface** 6. Karthick Chennakesavan, PhD, Texas A&M University, TX **Chromatin Disruption and DNA Damage in HIV-Tat + Opioid Exposure: Protective Role of Dimethyl Fumarate** 7. Rahul K. Das, PhD, SUNY Buffalo, NY **Modeling HIV-Associated Neuroinflammaging: A Microphysiological Approach to Blood Brain Barrier Dysfunction** 8. Daniela Franco, M.A., University of Maryland School of Medicine, Baltimore, MD **Impact of Social Stress on Microglia-Neuron Interactions in the Nucleus Accumbens** 9. Sandesh Kamdi, PhD, University of Maryland School of Medicine, Baltimore, MD **Behavioral studies and In-Vivo Brain MR Spectroscopy in Human Microglia NOG-hIL34 mice** 10. Surendra Kumar, PhD, Johns Hopkins School of Medicine, Baltimore, MD **OPN as a Neuroimmune Link Between CNS Inflammation and Peripheral Bone Pathology in HIV Infection** 11. JR Ramirez, BS, University of Texas Medical Branch, Galveston, TX **Tunneling Nanotubes Mediate the Intercellular Spread of HIV-Gag-vRNA in Glial Cells Through a Myosin-X–Dependent Mechanism** 12. KA Schindler, BS, University of Miami, Coral Gables, FL **Combined EcoHIV and Methamphetamine Exposure Dysregulates Neuroimmune Responses Which Drives Cognitive and Neuropsychiatric Dysfunction**
2:45- 3:00 PM (Atrium)	**Break**
3:00 – 3:45 PM (Ballroom)	**Adarsh and Mahendra Kumar Lecture** **Introduction of Speaker:** Mark D. Namba, PhD, Postdoctoral Researcher, Department of Pharmacology & Physiology, Drexel University College of Medicine, Philadelphia, PA Amy Janes, PhD, Senior Investigator, Deputy Chief, Neuroimaging Research Branch, Intramural NIDA, NIH, Baltimore, MD **Neuroimaging Insights into Substance Use: A Focus on Nicotine Dependence.**
3:45 – 5:15 PM (Ballroom)	**Symposium 4: Implications of RNA Regulation in Neuroimmunological Responses** **Chair:** Shiden Solomon, PhD, Postdoctoral Researcher, University of Pennsylvania, Philadelphia, PA Shan Zha, MD, PhD, Professor, Columbia University, NYC, NY **RNA-Linked DNA Damage Responses in Immune Signaling** Anna G Orr, PhD, Associate Professor, Weill Cornell Graduate School of Medical Sciences, NYC, NY **Effects of TDP-43 Dysregulation on Astrocytes and Viral Infections** Yijing Su, PhD, Assistant Professor, University of Pennsylvania, Philadelphia, PA **Global Epitranscriptomic Alterations in HIV-Induced Monocyte-Derived Macrophages** Eliseo Eugenin, PhD, Professor, University of Texas Medical Branch, Galveston, TX **Residual Viral RNA Replication within CNS Viral Reservoirs Drive Chronic Bystander Neuronal and Glial Damage**
5:15 – 5:30 PM (Atrium)	**Break**
5:30 – 7:00 PM (Ballroom)	**Symposium 5: Glial mechanisms of NeuroHIV** **Co-Chairs:** Ming-Lei Guo, PhD, MD, Associate Professor, Old Dominion University, Norfolk, VA Shao-Jun Tang, PhD, Professor and Vice Chair for Research, SUNY-Stony Brook University School of Medicine, NY Woong-Ki Kim, PhD, Associate Director for Research, Professor, Tulane University School of Medicine, New Orleans, LA **Eradicating SIV from CNS Reservoirs by Targeting CSF1R Signaling.** Lena Al-Harthi, PhD, Chair and Professor, Vice Dean of Research, Rush Medical College, Chicago, IL

	When Astrocytes Senesce: Functional Consequences for Brain Homeostasis in HIV and Methamphetamine Co-Morbidity. Katherine Conant, MD, Professor, Georgetown University Medical Center, Washington, DC **CCR5 Antagonists to Treat Mood and Cognitive Deficits in HIV Infected Individuals.** Mark Maurelli, MS, Predoctoral Researcher, Department of Pharmacology and Anesthesiology, SUNY-Stony Brook University, Stony Brook, NY **Glial Contribution to Pathogenesis in The Pain Neural Circuits Induced by NRTIs**
7:00 - 9:00 PM (Atrium)	**General abstracts POSTER Session**
7:30 -9:00 Location (TBD)	**NeuroImmune Pharmacology and Therapeutics (NIPT) Editors' Dinner**
Tuesday, May 5th, 2026	
7:00-8:00 AM (Atrium)	**Breakfast**
8:00 AM– 5:00 PM	**Registration**
8:00 – 9:30 AM (Ballroom)	**Symposium 6: Noncanonical roles of (endo)lysosomes in the central nervous system** **Co-Chairs:** Lindsay Festa, PhD, Assistant Professor, Children's Hospital of Philadelphia, Philadelphia, PA Yisel Cantres Rosario, PhD, Assistant Professor, University of Puerto Rico, San Juan, PR Sandra Maday, PhD, Associate Professor, University of Pennsylvania School of Medicine, Philadelphia, PA **TRPML1 Controls Lysosome Positioning to Shape Astrocyte Morphology** Mable Lam, PhD, Postdoctoral Fellow, Stanford University, Palo Alto, CA **Role of Exocytosis in Myelin Membrane Expansion and Plasticity.** Lindsay Festa, PhD, Assistant Professor, Children's Hospital of Philadelphia, Philadelphia, PA **The Lysosome Is A Regulator of The Oligodendrocyte Cytoskeleton.** Andrew Arrant, PhD, Assistant Professor, University of Alabama at Birmingham, AL **Progranulin Exerts Neurotrophic Effects by Acting in Lysosomes of Neurons and Glia**
9:30-10:15 AM (Ballroom)	**Bill Narayan Memorial Lecture** **Introduction of Speaker:** Norman J. Haughey, PhD, Professor, Tulane University School of Medicine, New Orleans, LA Jonathan D. Geiger, PhD, Chester Fritz Distinguished Professor, University of North Dakota, ND **Lysosomes Serve Important Roles in the Pathogenesis of Neurodegenerative Diseases, as well as the Safety and Efficacy of Modern Pharmacotherapeutics**
10:15 – 10:30 AM (Atrium)	**Break**
10:30—12:00 PM (Ballroom)	**Symposium 7: Molecular Mechanisms of RNA Viruses Induced Neurodegeneration** **Co-Chairs**: Carlos Pardo, MD, Professor, Johns Hopkins University School of Medicine, Baltimore, MD Pankaj Seth, PhD, Senior Professor, National Brain Research Center, Manesar, India Lisa Henderson, PhD, Scientist, Section of Infections of the Nervous System, NINDS, NIH **Antisense oligonucleotides as broadly effective inhibitors of mosquito-borne flaviviruses.** Tory P. Johnson, PhD, Assistant Professor, Johns Hopkins School of Medicine, Section of Infections of the Nervous System, NINDS. NIH **KCNA10 Autoantibodies and Endothelial Injury in Post-COVID Autonomic Dysfunction.** Carlos Pardo, MD, Professor of Neurology, Johns Hopkins School of Medicine, Baltimore, MD **Role of neuroimmune factors in the pathogenesis of neuroinflammatory disorders.** Pankaj Seth, PhD, Senior Professor at National Brain Research Centre, Manesar, India **Molecular mechanisms of Zika virus induced CNS pathogenesis using 2D and 3D models of human brain cells.**
12:00 -1:00 PM	**Lunch on your own or Meet the Mentor Lunch**

1:00 – 1:45 PM	**Discussions and Q & A with NIH Program Officers**
1:45 – 3:15 PM (Ballroom)	**Symposium 8: Molecular Signatures of HIV Pathogenesis: Viral and Host Proteins and Therapeutic Frontiers** **Co-Chairs**: Prasun K. Datta, PhD, Associate Professor, Tulane University, and Tulane National Primate Research Center, Covington, LA; Santhi Gorantla, PhD, Professor, University of Nebraska Medical Center, Omaha, NE Dianne Langford, PhD, Dean and Associate Vice Chancellor, Virtua Health College of Medicine and Life Sciences at Rowan University, NJ. **Spatial proteomic signatures of HIV in the human frontal cortex are associated with neurocognitive performance.** Chandravanu (CV) Dash, PhD, Chair and Professor, Meharry Medical College, Nashville, TN **HIV-1 integration and capsid-binding host factors: Who, When and How!** Lori A. Emert-Sedlak, Ph.D., Associate Professor, University of Pittsburgh School of Medicine, Pittsburgh, PA **Small Molecule Inhibitors of the HIV-1 Nef Virulence Factor as a New Approach to HIV Therapy.** Demetra P. Kelenis, PhD, Post-Doctoral Fellow, Columbia University, NYC, NY **HIV-1 infection Induces Vif-Driven SUMOylation of Host RNA Splicing Factors Mediating Proper Viral RNA Splicing.**
3:15 – 6:30 PM	**Free Time**
6:30 – 9:00 PM (Ballroom)	**Banquet** **Introduction of speaker:** Dr. Linda Chang, , MD, MS, Professor, University of Maryland School of Medicine, Baltimore, MD Avindra Nath, MD, Clinical Director, NINDS, Senior Investigator, Section of Infections of the Nervous System, Division of Neuroimmunology and Neurovirology, NINDS, NIH **Viruses and Neurodegenerative Diseases: Discovery of the Enemies Within**
Wednesday, May 6th, 2026	
7:00 – 8:00 AM	**Breakfast**
8:00 – 9:30 AM (Ballroom)	**Symposium 9: From Stigma to Science: Unpacking HIV and Cannabis Use** **Co-Chairs:** Barkha J. Yadav-Samudrala, PhD, Research Associate, and Sylvia Fitting, PhD, Professor, University of North Carolina, Chapel Hill, NC Samantha M. Ayoub, PhD, Postdoctoral Researcher, University of California San Diego, CA **Delineating the Impact of Phytocannabinoid Exposure on HIV-Associated Neurocognitive Impairment: Insights from The HIV-1 Transgenic Rat Model.** Alysha Ellison, PhD, Postdoctoral Researcher, Emory University, Atlanta, GA **Real World Considerations for Cannabinoid Based Therapies During HIV** Edward P. Browne, PhD, Associate Professor, University of North Carolina, Chapel Hill, NC **Impact of Cannabis Use on the Viral Reservoir and Immune Cell Gene Expression in People with HIV on Antiretroviral Therapy.** Mahesh Mohan, DVM, MS, PhD, Professor, Texas Biomedical Research Institute, San Antonio, TX **The Gut-Brain Connection: How Phytocannabinoids Supplement HIV Treatment to Reduce Chronic Inflammation.**
9:30 - 9:45 AM (Atrium)	**Break**
9:45 – 11:15 AM (Ballroom)	**Symposium 10: SNIP Member Symposium** **Co-Chairs:** Susmita Sil, PhD, Assistant Professor, University of Nebraska, Medical Center, Omaha, NE and Richard J. Noel, PhD., Chair and Professor, Ponce Health Sciences University, Ponce, PR Amber Virdi, PhD, Dept. Microbial Pathogens and Immunity, Rush University Medical Center **HIV Suppresses Colonic B-Catenin, Alters the Microbiome, and Induces Gut Barrier Leakiness That Is Recapitulated by the Microbiome Independent of HIV and Reversed by B-Catenin Activation**

	Allison Andrews, PhD, Dept. Pathology, Immunology and Laboratory Medicine, University of Florida, Gainesville, FL **Chronic HIV Infection Alters Neuronal Firing and Neurovascular Coupling in Reward Pathway Relevant Areas in Awake-Behaving Animals** Mark Namba, PhD, Dept. Pharmacology and Physiology, Drexel University College of Medicine, Philadelphia, PA **EcoHIV Infection Impairs Extinction Learning and Dysregulates Corticostriatal Microglia** Xuesong Chen, PhD, Dept. Biomedical Sciences, University of North Dakota School of Medicine and Health Sciences, Grand Forks, ND **Role of Endolysosomes in SARS-CoV-2 Spike-Induced Cellular Senescence in Human Astrocytes.** Sudipta Ray, PhD, Dept. Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE **HIF-1 siRNA encapsulated Extracellular Vesicle therapy protects against HIV-associated neurological deficits.** Jimmy Olusakin, PhD, Dept. Neurobiology, University of Maryland School of Medicine, Baltimore, MD **Perinatal Fentanyl Exposure Reprograms Microglial Development and Neuroimmune Signaling Across Mesocorticolimbic Circuits** David Ajasin, PhD, Dept. Internal Medicine, University of Texas Medical Branch, Galveston, TX **SIV/HIV-Induced Lipid Dysregulation Induce Neuroinflammation and Tissue Damage, and the Role of Pannexin-1 in Neuro-HIV** Peter Halcrow, PhD, Dept. Psychiatry, University of California San Diego, San Diego, CA **HIV-relevant Inflammatory Stimuli and Antiretroviral Therapy Exposure Induces Reactive Astrocytes Driven by Glycolysis and Resulting in the Secretion of Neurotoxic Compounds.** João Mamede, PhD, Dept. Microbial Pathogens and Immunity, Rush University Medical Center, Chicago, IL **Methamphetamine and HIV-1 Infection Activate Innate Sensing in Microglia Through the Inflammatory cGAS-STING pathway**
11:15 AM–12:15 PM (Ballroom)	**SNIP Business Meeting for Members**
12:15 – 1:15 PM	**Lunch on Your Own**
1:15 – 2:45 PM (Ballroom)	**Symposium 11: Local Organizing Committee Symposium** **Co-Chairs:** Yajie Liang, PhD, Assistant Professor, University of Maryland School of Medicine, Baltimore, MD Amanda Brown, PhD, Associate Professor, Johns Hopkins University School of Medicine, Baltimore, MD Ze Wang, PhD, Professor, Center for Advanced Imaging Research, University of Maryland School of Medicine, Baltimore, MD **Cerebral Perfusion as a Biomarker for Alzheimer's Disease.** Yajie Liang, PhD, Assistant Professor, Center for Advanced Imaging Research, University of Maryland School of Medicine, Baltimore, MD **Intravital Imaging Microglia Dynamics in the Live Mouse Brain** Mary Kay Lobo, Ph.D., Professor, Co-Director Center for Substance Use in Pregnancy, Associate Director for Kahlert Institute for Addiction Medicine (KIAM), University of Maryland School of Medicine, Baltimore, MD **Reward Circuitry Microglia-Neuron Interactions across the Lifespan in Disrupted Motivation** Alonso Heredia, PhD, Professor, Institute of Human Virology, University of Maryland School of Medicine, Baltimore, MD **Humanized Mouse Models that Enable the Development of Human Myeloid Cells: Opportunities for Targeting HIV Reservoirs in the Brain** Walter Royal, MD, Endowed Professor of Brain Science, Center for Brain Health Research, Morgan State University, Baltimore, MD **Modeling Neural Degeneration to Enhance Brain Health in HAND**
End of Conference	