

***Society on NeuroImmune Pharmacology (SNIP) conference, College of Pharmacy (COP),  
The University of Tennessee Health Science Center (UTHSC), Memphis, TN  
Agenda - June 1-3, 2022***

Time/period	Events
<b>Tuesday, May 31, 2022</b>	
6:00 pm-9:00 pm	<b>Council Dinner, The Peabody Memphis</b>
<b>Wednesday, June 1, 2022</b>	
10:00 am-12:00 pm	<b>Council meeting, College of Pharmacy (COP) 105</b>
11.45 am-12.00 pm	<b>Box lunch, COP Lobby</b>
12.00 pm-1:00 pm	<p><b>QIAGEN workshop: COP 101</b></p> <p><b>Moderator: Pankaj Seth, Ph.D.</b>, Professor and Scientist VII, National Brain Research Centre, Gurgaon, Haryana, India</p> <p><b>Introduction: Sulie Chang, Ph.D.</b>, Professor of Biological Sciences and Director, Institute of Neuroimmune Pharmacology, President, SNIP, Seton Hall University, South Orange, NJ, USA</p> <p><b>Speaker: Dr. Dipak Sarkar, Ph.D., D.Phil.</b>, Board of Governors Distinguished Professor, Rutgers, The State University of New Jersey, New Brunswick, NJ 08901-8525</p> <p><b>Title:</b> Use of Ingenuity Pathway Analysis in systemic review of alcohol epigenetic effects on neuroendocrine axis</p> <p><b>Introduction:</b> Nicole McKiernan, Associate Manager, Account Development Management, QIAGEN Digital Insights, QIAGEN</p> <p><b>Speaker: Araceli Cuellar, Ph.D. Senior Field Application Scientist, QIAGEN Digital Insights, QIAGEN</b></p> <p><b>Title: ?</b></p>
1:00 pm-5:00 pm	Registration, COP Lobby

1.45: pm – 2:00 pm	<p><b>Inauguration/welcome: Steven R. Goodman, Ph.D.</b>, Vice Chancellor for Research, The University of Tennessee Health Science Center, Memphis, TN, USA (Introduction by <b>Santosh Kumar, Ph.D.</b>, Professor, Pharmaceutical Sciences, Assistant Dean, College of Pharmacy, UTHSC, and President-elect and Interim meeting Chair, SNIP)</p>
2:00 pm-3.30 pm	<p><b>ECI Poster session (COP Lobby): Gurudutt Pendyala, Ph.D.</b>, Robert Lieberman Professor, Department of Anesthesiology, College of Medicine, University of Nebraska Medical Center, Omaha, NE, USA  <b>Reception:</b> Finger snacks &amp; drinks (<b>COP Lobby</b>)</p>
3:30 pm-5:00 pm	<p><b>Diversity and Inclusion SNIP Council (DISC) session (COP 101)</b>  <b>Introduction (5 min): Sowmya Yelamanchili, Ph.D.</b>, Associate Professor, Department of Anesthesiology, College of Medicine, University of Nebraska Medical Center, Omaha, NE, USA</p> <p><b>Guest speaker (25+5 min): Okeoma Chioma, Ph.D.</b>, Professor and Vice-Chair of Research, Department of Pathology, Microbiology and Immunology, New York Medical College, New York, NY, USA  <b>Title:</b> SIV and <math>\Delta 9</math>-THC induced alterations in host miRNAome: Insights from extracellular vesicles</p> <p><b>DISC ECI speakers (5 min each):</b></p> <ol style="list-style-type: none"> <li>1. <b>Abdelmoaty MM</b>, Graduate Student, University of Nebraska Medical Center, Omaha, NE, USA  <b>Title:</b> Monocyte biomarkers define sargramostim treatment outcomes for Parkinson’s disease</li>   <li>2. <b>Abu Y</b>, Graduate Student, University of Miami, Miami, FL, USA  <b>Title:</b> Brief hydromorphone exposure during pregnancy sufficient to induce maternal and neonatal microbial dysbiosis</li>   <li>3. <b>Flores A</b>, Graduate Student, University of Nebraska Medical Center, Omaha, NE, USA  <b>Title:</b> An integrated systems approach to decode the impact of adolescent nicotine exposure in pre and postnatal oxycodone exposed offspring</li>   <li>4. <b>Long C</b>, Graduate Student, University of Pennsylvania, PA, USA  <b>Title:</b> HIV pre-exposure prophylaxis (prep) inhibits oligodendrocyte differentiation</li> </ol>

	<p><b>5. Oladipo A</b>, Graduate Student, University of Nebraska Medical Center, Omaha, NE, USA  <b>Title:</b> Role of astrocyte-specific NLRP6 inflammasome in methamphetamine-mediated neuroinflammation</p> <p><b>6. Rosario-Rodriguez, LJ</b>, Post-Doctoral Fellow, University of Puerto Rico Medical Science Campus, PR, USA <b>Title:</b> CB2R agonist JWH-133 decreases CATB secretion and neurotoxicity from HIV-infected macrophages by attenuating NF-<math>\kappa</math>B activation, oxidative stress, and lysosomal exocytosis</p> <p><b>7. Soler YS</b>, Graduate Student, Florida International University, Miami, FL, USA <b>Title:</b> Serpin-derived peptide for the treatment against HIV in the CNS</p> <p><b>8. Stangis M</b>, Graduate Student, University of Miami, Miami, FL, USA <b>Title:</b> Methamphetamine and the S1 subunits of SARS CoV-2 variant spike proteins dysregulate human brain endothelial cells</p>
<b>Thursday June 2, 2022 (COP 101)</b>	
8:00 am-8:15 am	<p><b>Inauguration/welcome: Kennard Brown, JD, MPA, Ph.D., FACHE</b>, Executive Vice Chancellor and Chief Operations Officer, The University of Tennessee Health Science Center, Memphis, TN (Introduction by <b>Dr. Santosh Kumar</b>, Ph.D., Professor, Pharmaceutical Sciences, Assistant Dean, College of Pharmacy, UTHSC, President-elect, Interim meeting chair, SNIP)</p> <p><b>SNIP President: Sulie L. Chang, Ph.D.</b>, Professor of Biological Sciences and Director, Institute of Neuroimmune Pharmacology, President, SNIP, Seton Hall University, South Orange, NJ, USA</p>
8:15 am-8:50 am	<p><b>President Symposium: SARS-CoV-2: Comorbidities and therapeutics</b></p> <p><b>Plenary Lecture</b> <b>Introduction (5 min): Santosh Kumar, Ph.D.</b>, Professor and Assistant Dean, Department of Pharmaceutical Sciences, College of Pharmacy and Department of Pharmacology Addiction Science, and Toxicology, College of Medicine, The University of Tennessee Health Science Center, Memphis, TN, USA</p>

	<p><b>Speaker: Colleen B. Jonsson, Ph.D.,</b> Professor and Van Vleet Chair of Excellence in Virology, Director, Regional Biocontainment Laboratory (RBL), Director, Institute for the Study of Host-Pathogen Systems, The University of Tennessee Health Sciences Center, Memphis, TN, USA</p> <p><b>Title:</b> SARS-CoV-2: Past, present, and future</p>
8:50 am-9:55 am	<p><b>President Symposium: SARS-CoV-2: Comorbidities and therapeutics</b></p> <p><b>Co-Chairs (5 min Introduction):</b></p> <p><b>Kendall Bryant, Ph.D., Director,</b> Alcohol and AIDS Research, National Institute on Alcoholism and Alcohol Addiction (NIAAA), NIH, Bethesda, MA, USA</p> <p><b>Jeymohan Joseph, Ph.D.,</b> Chief, HIV Neuropathogenesis, Genetics, and Therapeutics Branch, National Institute of Mental Health, Bethesda, MD, USA</p> <p><b>Speakers (12+3 min each)</b></p> <p><b>1. Michal Toborek, Ph.D.,</b> Professor and Vice-Chair for Research, Department of Biochemistry and Molecular Biology, Miller School of Medicine, University of Miami, Miami, FL, USA</p> <p><b>Title:</b> Cerebrovascular pathology of SARS-CoV-2 infection</p> <p><b>2. Miguela Caniza, M.D., M.P.H.,</b> Member, Department of Infectious Disease, St. Jude Graduate School of Biomedical Sciences, Director, Global Infectious Disease Program, St. Jude Children Research Hospital, Professor, The University of Tennessee Health Science Center, Memphis, TN, USA</p> <p><b>Title:</b> COVID-19 in pediatric immunocompromised hosts</p> <p><b>3. Siddappa Byrareddy, Ph.D.,</b> Professor and Vice-chair of research, Department of Pharmacology and Experimental Therapeutics, College of Medicine, University of Nebraska Medical Center, Omaha, NE, USA</p> <p><b>Title:</b> SARS-CoV-2 Infection Leads to Neurological Dysfunction</p> <p><b>4. Scott Letendre, M.D.,</b> Professor, Department of Medicine, School of Medicine, University of San Diego California, San Diego, CA, USA</p> <p><b>Title:</b> ARS-COV-2: Neuropsychiatric complications</p>
9:55 am-10:20 am	<p><b>Coffee/Tea break/Networking</b></p>

10:20 am-11.25 am

**Symposium 1: Use of iPSC-derived CNS cells and Brain Organoids to model HIV infection, substance use and ARV treatment in the CNS**

**Co-Chairs (5 min Introduction):**

**Kelly Jordan-Sciutto, Ph.D.**, Professor, Associate Dean of Organizational Effectiveness, Department of Oral Medicine, School of Dental Medicine, University of Pennsylvania, Philadelphia, PA, USA

**Wenzhe Ho, M.D., M.P.H.**, Professor, Department of Pathology and Laboratory Medicine, Lewis Katz School of Medicine, Temple University, Philadelphia, PA, USA

**Speakers (12+3 min each)**

**1. Cagla Akay-Espinoza, M.D.**, Research Assistant Professor, Department of Oral Medicine, School of Dental Medicine, University of Pennsylvania, Philadelphia, PA, USA

**Title:** iPSC-based platforms reveal new opportunities for modeling HIV infection in the CNS

**2. Kimberly Christian, Ph.D.**, Research Assistant Professor, Department of Neuroscience, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, USA

**Title:** Evaluating the impact of antiretroviral drugs in a forebrain organoid model of cortical development

**3. Ronald P. Hart, Ph.D.**, Professor, Department of Cell Biology & Neuroscience, Rutgers University, Piscataway, NJ, USA

**Title:** AUD-associated, noncoding SNP variants of KCNJ6 alter physiology in iPSC-derived neurons

**4. Brittany Bodnar, Ph.D. Candidate**, Center for Metabolic Disease Research, Department of Pathology and Laboratory Medicine, Lewis Katz School of Medicine at Temple University, Philadelphia, PA, USA

**Title:** HIV infection of microglia containing brain organoids

11:30 am-12:00 pm

**Box lunch**

12.00 pm-12:35 pm

**Bill Narayan Memorial Lecture**

**Introduction (5 min): Santhi Gorantla, Ph.D.**, Professor, Department of Pharmacology and Experimental Neuroscience, College of Medicine, University of Nebraska Medical Center, Omaha, NE, USA

**Speaker: Yuri Persidsky, M.D., Ph.D.** Professor and Chair, Department of Pathology and Laboratory Medicine, Lewis Katz School of Medicine at Temple University, Philadelphia, PA, USA.

	<p><b>Title:</b> Alcohol and electronic cigarettes cause blood-brain-barrier (BBB) injury via purinergic receptor signaling</p>
12.35 pm-1:10 pm	<p><b>Dr. Adarsh Kumar Lecture</b></p> <p><b>Introduction (5 min): Nazira El-Hage, Ph.D.,</b> Associate Professor, Co-Director of the Graduate Program, Immunology &amp; Nano-Medicine, Herbert Wertheim College of Medicine, Florida International University, Miami, FL, USA</p> <p><b>Speaker: Shilpa Buch, Ph.D.</b> Professor, Department of Pharmacology and Experimental Neuroscience, College of Medicine, University of Nebraska Medical Center, Omaha, NE, USA</p> <p><b>Title:</b> Multifaceted roles of exosomes in NeuroHIV &amp; opioid comorbidity</p>
1:10 pm-1:25 pm	<p><b>Bio-break</b></p>
1:30 pm-2:35 pm	<p><b>Symposium 2: T time for the neuroimmune pharmacology research</b></p> <p><b>Co-Chairs (5 min Introduction):</b></p> <p><b>Marta Catalfamo, Ph.D.,</b> Associate Professor, Department of Microbiology and Immunology, Georgetown University School of Medicine, Washington, DC, USA</p> <p><b>Sanjay Maggirwar, Ph.D., M.B.A.,</b> Professor and Chair, Department of Microbiology, Immunology, and Tropical Medicine, School of Medicine and Health Sciences, The George Washington University, Washington, DC, USA</p> <p><b>Speakers (12+3 min each)</b></p> <p><b>1. Andrew Speidell, M.S.,</b> Graduate student, Department of Neuroscience, Georgetown University Medical Center, Washington, DC, USA</p> <p><b>Title:</b> Loss of forebrain cholinergic neurons in aged HIV-1 gp120 transgenic rodents is mediated through the p75NTR neurotrophin receptor</p> <p><b>2. Angelo Mandarino, Ph.D.,</b> Post-doctoral Fellow, Department of Pediatric Hematology/Oncology, Albert Einstein College of Medicine, Bronx, NY, USA</p> <p><b>Title:</b> Effect of Methamphetamine on establishment and reactivation of HIV-1 latency in myeloid cell lines and iPSC-derived microglia</p>

	<p><b>3. Rebecca Warfield</b> Ph.D. Candidate, Department of Neuroscience, Lewis Katz School of Medicine, Temple University, Philadelphia, PA USA  <b>Title:</b> Alterations in peripheral nociceptive signaling circuits during HIV/SIV infection contribute to the development of HIV-associated distal sensory polyneuropathy</p> <p><b>4. Julie Joseph</b>, Graduate Student, Department of Microbiology and Immunology, Drexel University College of Medicine, Philadelphia, PA, USA  <b>Title:</b> Role of exosomes in neuroinflammation caused by retroviral infection</p>
2:35 pm-3:00 pm	Coffee/Tea break/Networking
3:00 pm-5.00 pm	<p><b>Symposium 3: Meet the Neuroimmune Pharmacology and Therapeutics (NIPT) Editors</b>  <b>Co-Chairs (5 min Introduction):</b>  <b>Howard Gendelman, M.D.</b>, Margaret R. Larson Professor of Internal Medicine and Infectious Diseases, Chair, Department of Pharmacology and Experimental Neuroscience, Department of Pharmacology and Experimental Therapeutics, College of Medicine, University of Nebraska Medical Center, Omaha, NE, USA  <b>Jean Bidlack, Ph.D.</b>, Professor and Associate Chair, Department of Pharmacology and Physiology, School of Medicine and Dentistry, University of Rochester Medical Center, Rochester, NY, USA</p> <p><b>Speakers (12+3 min each)</b></p> <p><b>1. Howard Gendelman, M.D.</b>, Margaret R. Larson Professor of Internal Medicine and Infectious Diseases, Chair, Department of Pharmacology and Experimental Neuroscience, Department of Pharmacology and Experimental Therapeutics, College of Medicine, University of Nebraska Medical Center, Omaha, NE, USA  <b>Title:</b> Strategies for an HIV cure</p> <p><b>2. Eliseo Eugenin, M.D., Ph.D.</b>, Associate Professor, William D. Willis Professorship in Neuroscience, Department of Neuroscience, School of Medicine, University of Texas Medical Branch, Galveston, TX, USA  <b>Title:</b> The current status of the viral reservoirs within the CNS</p>

	<p><b>3. Linda Chang, M.D.,</b> Professor, Vice Chair for Faculty Development, Department of Radiology and Nuclear Medicine, School of Medicine, University of Maryland, Baltimore, MA, USA  <b>Title:</b> Brain abnormalities in patients with post-acute sequelae of COVID-19 (PASC)</p> <p><b>4. Sabita Roy, Ph.D.,</b> Professor, Biochemistry &amp; Molecular Biology, Miller School of Medicine, University of Miami, Miami, FL, USA  <b>Title:</b> Substance use disorder and the gut brain axis</p> <p><b>5. Kalipada Pahan, Ph.D.,</b> Professor, Neurological Sciences, Biochemistry, and Pharmacology  Floyd A. Davis, M.D., Endowed Chair, Department of Neurology, Research Scientist, Jesse Brown VA Medical Center, Rush University, Chicago, IL, USA  <b>Title:</b> Stop paying tolls in the CNS for halting neurodegenerative diseases</p> <p><b>Roundtable discussion for the new journal, NeuroImmune Pharmacology and Therapeutics (10 min)</b>  <b>Moderator: Dr. Howard Gendelman, M.D.</b></p> <p><b>Howard Gendelman, M.D. (25 min):</b> Vision for the new SNIP journal, “NeuroImmune Pharmacology and Therapeutics (NIPT)”</p>
<b>Friday June 3, 2020</b>	
8:00 am-8:35 am	<p><b>Local Plenary lecture</b>  <b>Introduction (5 min): Chandravanu (CV) Dash, Ph.D.,</b> Professor, Microbiology and Immunology and Center for AIDS Health Disparities Research, Meharry Medical College, Nashville, TN, USA  <b>Speaker: Alejandro (Alex) Dopico, Ph.D.,</b> Distinguished Professor and Chair, Department of Pharmacology, Addiction Science, and Toxicology, The University of Tennessee Health Science Center, Memphis, TN, USA  <b>Title:</b> Ionic mechanisms of alcohol-induced brain hypoperfusion</p>
8:35 am-9:40 am	<p><b>Local Symposium</b>  <b>Co-Chairs (5 min Introduction):</b>  <b>Anna Bukiya, Ph.D.</b> Professor, Department of Pharmacology, Addiction Science, and Toxicology,</p>



University of Tennessee Health Science Center, Memphis, TN, USA  
**Chandravanu (CV) Dash, Ph.D.**, Professor, Microbiology and Immunology and Center for AIDS Health Disparities Research, Meharry Medical College, Nashville, TN, USA

**Speakers (12+3 min each)**

**1. Brad Grueter, Ph.D.**, Assistant Professor, Department of Pharmacology, Vanderbilt University, Nashville, TN, USA

**Title:** Kappa opioid receptor modulation of nucleus accumbens microcircuits

**2. Jui Pandhare, Ph.D.**, Assistant Professor, Microbiology and Immunology and Center for AIDS Health Disparities Research, Meharry Medical College, Nashville, TN, USA

**Title:** Molecular interactions between drug abuse and HIV-1 neuropathogenesis

**3. Alina Cernasev, Ph.D.**, Assistant Professor, Department of Clinical Pharmacy and Translational Sciences, College of Pharmacy, The University of Tennessee Health Science Center, Nashville, TN, USA

**Title:** Role of pharmacists in directing care in the people living with HIV and substance use disorder

**4. Asit Kumar, Ph.D.**, Research Associate, Department of Pharmaceutical Sciences, College of Pharmacy, The University of Tennessee Health Science Center, Memphis, TN, USA

**Title:** Effect of smoking constituents on the packaging of CYPs and inflammatory cytokines/chemokines in rat plasma-derived extracellular vesicles

9:40 am-10:05 am

**Coffee/Tea break/Networking**

10:05 am-11:10 pm

**ECI Symposium (students and PDFs): Dr. Gurudutt Pendyala and Dr. Yisel Cantres (5 min Introduction)**  
**ECI Pre-Doctoral Students**

**1. Gowen A**, Graduate Student, University of Nebraska Medical Center, Omaha, NE, USA

**Title:** In utero opioid exposure induced vulnerability to later life brain injury

**2. Kota NK**, Undergraduate Student, Seton Hall University, New Orange, NJ, USA

**Title:** Using IPA tools to characterize molecular pathways underlying the involvement of IRF7 in antiviral response to HIV-IRF

- 3. Podgorski, RM,** Graduate Student, Temple University, Philadelphia, PA, USA

**Title:** Chimeric R5 Simian-Human Immunodeficiency Virus SHIV.D replicates in the brain causes neuropathogenesis, and persists on antiretroviral therapy in rhesus macaques

- 4. Qayum S,** Graduate Student, University of Buffalo, NY, USA

**Title:** Synthesis and characterization of a PLGA based cannabidiol (CBD) nanoformulation to treat neuropathic pain

- 5. Watson Z,** Graduate Student, University of Texas Medical Branch, Galveston, TX, USA

**Title:** Investigating synaptic pruning by glia in HIV associated neurological dysfunction

#### **ECI Post-Doctoral Fellows and Junior Faculty**

- 1. Bellizzi A,** Post-Doctoral Fellow, Temple University, Philadelphia, PA, USA

**Title:** Discovery and functional characterization of HIV-1-latency associated circular RNAs in African American women living with HIV

- 2. Chand S,** Instructor, University of Nebraska Medical Center, Omaha, NE, USA

**Title:** Methamphetamine induces the release of proadhesive extracellular vesicles and promotes syncytia formation: A potential role in HIV-1 neuropathogenesis

- 3. Halcrow PW,** Post-Doctoral Fellow, University of North Dakota, Fargo, ND, USA

**Title:** Mu opioid receptor-mediated release of endolysosome iron increases levels of mitochondrial iron, reactive oxygen species, and cell death

- 4. Liang HL,** Post-Doctoral Fellow, University of Maryland School of Medicine, Baltimore, MD, USA

**Title:** Abnormal brain diffusivity in participants with persistent neuropsychiatric symptoms after

	<p>COVID-19</p> <p><b>5. McLaurin KA</b>, Post-Doctoral Fellow, University of South Carolina, Charleston, SC, USA  <b>Title:</b> Disruption of choice: EcoHIV inoculation following a history of cocaine use</p>
11:15 am-12:15 pm	<b>ECI speed mentoring: Dr. Gurudutt Pendyala and Dr. Yisel Cantres</b>
12:15 am-12:45 pm	<b>Box lunch</b>
12:45 am-1:45 pm	<b>Business meeting (Jean Bidlack)</b>
1:45 pm-2:50 pm	<p><b>Symposium 4: HIV and neurological diseases</b>  <b>Co-Chairs (5 min Introduction):</b>  <b>Changhai Cui, Ph.D.</b>, Program Official, Division of Neuroscience and Behavior, National Institute on Alcohol Abuse and Alcoholism (NIAAA), NIH, Bethesda, MD, USA  <b>Syed Ali, Ph.D.</b>, Senior Research Scientist, Center for Integrative Nanotechnology Sciences, University of Arkansas at Little Rock, President &amp; CEO, NeuroLab International, PLLC, Little Rock, AR, USA</p> <p><b>Speakers (12+3 min each)</b></p> <p><b>1. Golnoush Mirzahosseini</b>, Ph.D. candidate, Department of Pharmaceutical Sciences, University of Tennessee Health Science Center, Memphis, TN, USA  <b>Title:</b> LM11A-31 as an anti-stroke and anti-HIV drug candidate</p> <p><b>2. Ilker K. Sariyer, Ph.D.</b>, Associate Professor, Department of Microbiology, Immunology, and Inflammation, Lewis Katz School of Medicine at Temple University, Philadelphia, PA USA  <b>Title:</b> Molecular and cellular impact of morphine and HIV-1 NEF-EVs on ORPM1 pre-mRNA splicing</p> <p><b>3. Jun Zhu, Ph.D.</b>, Professor, Department of Drug Discovery &amp; Biomedical Sciences, College of Pharmacy, University of South Carolina, Columbia, SC, USA  <b>Title:</b> Novel allosteric modulator attenuates HIV-1 tat protein-induced inhibition of dopamine transporter and alleviates cognitive and cocaine rewarding effects in HIV-1 tat transgenic mice</p>

	<p><b>4. Rose Booze, Ph.D.</b>, Professor and Bicentennial Endowed Chair of Behavioral Neuroscience, Department of Psychology, College of Arts and Sciences, University of South Carolina, Columbia, SC, USA  <b>Title:</b> Abnormal <math>\beta</math>-amyloid accumulation: aging HIV-1 human and HIV-1 transgenic rat brain</p>
2:50 pm-3:55 pm	<p><b>Symposium 5: Selected from the submitted abstracts</b>  <b>Co-chairs: (5 min Introduction):</b>  <b>Jerel Fields, Ph.D.</b> Assistant Professor, Department of Psychiatry, University of California, San Diego, La Jolla, CA, USA  <b>Susmita Sil, Ph.D.</b>, Assistant Professor, Department of Pharmacology &amp; Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE, USA</p> <p><b>Speakers: (5 min each)</b></p> <ol style="list-style-type: none"> <li><b>1. Aditya Bade, Ph.D.</b>, Instructor, Department of Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE, USA  <b>Title:</b> Dolutegravir inhibition of matrix metalloproteinases: Functional mechanism underlying developmental neuro-abnormalities.</li> <li><b>2. Keshore R. Bidasee, Ph.D.</b>, Professor, Department of Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE, USA  <b>Title:</b> Persistent diastolic dysfunction in DTG/TDF/FTC-treated HIV-infected NSG-humanized mice</li> <li><b>3. Alejandra Borjabad, Ph.D.</b>, Assistant Professor, Department of Medicine, Division of Infectious Diseases, Icahn school of Medicine at Mount Sinai, New York, NY USA,  <b>Title:</b> Potentially beneficial effects of cannabidiol (CBD) in ECO-HIV infection in culture and mice</li> <li><b>4. Maxim C-J. Cheeran, Ph.D.</b>, Associate Professor, College of Veterinary Medicine, University of Minnesota, St. Paul, MN, USA  <b>Title:</b> Traumatic brain injury-induced persistent inflammation is associated with long-term behavioral deficits</li> <li><b>5. Debashis Dutta, Ph.D.</b>, Instructor, Department of Pharmacology and Experimental Neuroscience,</li> </ol>

College of Medicine, University of Nebraska Medical Center, Omaha, NE, USA

**Title:** Methamphetamine potentiation of HIV-1 gp120-associated microglia neuroinflammation via NLRP3 activation

**6. Norman Haughey, Ph.D.,** Professor and Vice Chair for Research, Department of Neurology, Johns Hopkins University School of Medicine, Baltimore, MD, USA

**Title:** HIV infection primes the innate immune response to methamphetamine

**7. Wei Jiang, M.D.,** Associate Professor, Department of Microbiology & Immunology Division of Infectious Diseases, Department of Medicine Medical University of South Carolina, Charleston, SC, USA

**Title:** CSF anti-CD4 autoantibodies and neuroHIV pathogenesis

**8. Marcus Kaul, Ph.D.,** Professor, School of Medicine, Division of Biomedical Sciences, University of California at Riverside, Riverside, CA, USA

**Title:** Long-term changes of neurotransmission-related gene expression correlate with impaired behavioral performance caused by methamphetamine and neuroHIV

**9. Shamsudheen Moidunny, Ph.D.,** Assistant Professor, Department of Surgery - Oncology Molecular Therapeutics, University of Miami School of Medicine, Miami, FL, USA

**Title:** Role of gut microbiome in opioid withdrawal-induced anxiety and depression-like behaviors in HIV-1 transgenic mice

4:00 pm-5:00 pm

**President's transition, Thanking note, and award ceremony (Drs. Sulie Chang and Santosh Kumar)**