Program for the

17th SNIP Scientific Conference

Clearwater Beach, FL
April 5-10, 2011

SNIP Administrative Meetings

Tuesday, April 5, 2011

1:00 PM	Opening of Conference Office (*Dolphin Room*)
3:00 – 4:30 PM	SNIP Executive Committee Meeting (*Room 901*)
4:30 – 6:30 PM	SNIP Meetings Committee (*Citrus Room*)
7:00 – 9:30 PM	SNIP Council Dinner

Wednesday, April 6, 2011

8:30 – 9:00 AM	Awards Committee (*Marlin Room*)
9:00 – 10:00 AM	Finance Committee (*Marlin Room*)
10:00 – 11:00 AM	Communications Committee (*Marlin Room*)
11:00 AM – Noon	Membership Committee (*Marlin Room*)
Noon – 1:15 PM	Lunch – on your own
1:15 – 3:00 PM	Council Meeting and Committee Reports (*Citrus Room*)
2:00 PM	Conference Office opens (*Dolphin Room*)

Scientific Sessions

All main sessions held in Salons A-D unless otherwise stated

Wednesday, April 6, 2011

3:00 – 6:00 PM **Registration Opens** (*Grand Ballroom Foyer)*

4:45 – 7:15 PM **Opening Reception** (*Salon E*)

4:45 – 7:15 PM **POSTER SESSION I – Young Investigators Session** (*Salon E*)

*Please have **ALL** posters mounted on poster boards by 4:45 PM.*

Odd numbered posters (W1, W3, etc.) to be presented from 4:45–6 PM

Even numbered posters (W2, W4, etc.) to be presented from 6–7:15 PM

Please remove all posters after the session

Poster Titles listed by assigned Poster Board Numbers
(see *Journal of Neuroimmune Pharmacology* for complete abstracts)

W-1. **Beneficial Effect of the Cannabinoid Receptor-2-Selective Agonist in Spinal Cord Injury via Immune Modulation**. *S Adhikary*[1], H Li[1], M Skarica[1], RF Tuma[1], D Ganea[1]; [1]Department of Physiology, Temple University School of Medicine, Philadelphia, PA 19140.

W-2. **Differential Expression of Cannabinoid Genes in Alcoholics**. *M Agudelo*[1], C Spadola[1], A Yndart[1], N Gandhi[1], Z Saiyed[1], VB Pichili[1], T Samikkannu[1], MP Nair[1]; [1]Department of Immunology, College of Medicine, Florida International University, Miami, FL 33199.

W-3. **HIV-1 Induced Amyloid Beta Accumulation in Brain Endothelial Cells: Signaling Mechanisms Involved**. *IE Andras*[1], SY Eum[1], Y Zhong[1], W Huang[1], B Hennig[2], M Toborek[1]; [1]Neurosurgery, University of Kentucky, Lexington, KY 40536, [2]College of Agriculture, University of Kentucky, Lexington, KY 40536.

W-4. **A Gene Therapeutic Approach for HIV-1 Associated Dementia (HAD) using Targeted Nanoparticles for TIMP-1 Delivery into CNS**. *F Ashutosh*[1], K Borgmann[1], L Tang[1], V Labhasetwar[2], A Ghorpade[1]; [1]Department of Cell Biology and Anatomy, University of North Texas Health Science Center, Fort Worth, TX 76107, [2]Department of Biomedical Engineering, Cleveland Clinic Lerner College of Medicine, Cleveland, OH 44195.

W-5. **HIV-1 and Drugs of Abuse alter Neurotrophin Levels in Human Lymphocytes**. *V Avdoshina*[1], A Garzino-Demo[2], A Bachis[1], Mc Monaco[3], C Liu[4], Ma Young[4], I Mocchetti[1]; [1]Department of Neuroscience, Georgetown University Medical Center, Washington, DC 20057, [2]Institute of Human Virology , University of Maryland, Baltimore, MD 21201, [3]Laboratory of Molecular Medicine and Neuroscience, NINDS/NIH, Bethesda, MD 20824, [4]Department of Medicine, Georgetown University Medical Center, Washington, DC 20057.

W-6. **Manufacture and Pre-Clinical Testing of Nanoformulated Antiretroviral Therapeutics**. *S Balkundi*[1], A Nowacek[1], J McMillan[1], U Roy[1], A Martinez-Skinner[1], R Mosley[1], G Kanmogne[1], A Kabanov[1], T Bronich[1], H Gendelman[1]; [1]Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE 68128.

W-7. **Morphine Modulation of IL17 Expression and Signaling in Alveolar Epithelial Cells**. *S Banerjee*[1], S Roy[1]; [1]Surgery, University of Minnesota, Minneapolis, MN 55455.

W-8. **The Effect of HIV-1 Tat on Intracellular Production and Distribution of Abeta 1-42 in Hippocampal Neurons**. *SJ Bertrand*[1], MV Aksenova[1], MY Aksenov[1], CF Mactutus[1], RM Booze[1]; [1]Department of Psychology, University of South Carolina, Columbia, SC 29201.

W-9. **HIV-1 Tat Mediated Induction of Platelet-Derived Growth Factor in Astrocytes: Role of Early Growth Response Gene 1**. *C Bethel-Brown*[1], H Yao[2], S Callen[2], YH Lee[3], PK Dash[2], A Kumar[4], S Buch[2]; [1]Molecular and Integrative Physiology, University of Kansas Medical Center, Kansas City , KS 66160, [2]Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE 68137, [3]Institute of Biomedical Science and Technology, Konkuk University, Seoul, Korea 143-701, [4]Pharmacology, University of Missouri Kansas City, Kansas City, MO 64108.

W-10. **Norepinephrine Enhances the Vaginal Epithelial Immune Response to a Staphylococcal Superantigen**. *A. Brosnahan*[1], B. Jones[1], L. Vulchanova[1], D. Brown[1]; [1]Department of Veterinary and Biomedical Sciences, College of Veterinary Medicine, University of Minnesota, St. Paul, MN 55108.

W-11. **The Effects of Buprenorphine and CCL2 on Monocytes and the Blood Brain Barrier**. *L Carvallo*[1], L Lopez[1], FY Che[1], J Lim[1], L Miller[1], L Weiss[1], RH Angeletti[2], JW Berman[1]; [1]Department of Pathology, Albert Einstein College of Medicine, Bronx, NY 10461, [2]Department of Developmental and Molecular Biology, Albert Einstein College of Medicine, Bronx, NY 10461, [3]Microbiology and Immunology, Albert Einstein College of Medicine, Bronx, NY 10461.

W-12. **Protein Expression and Gene Regulation of CB2 in Human Immune Cells**. *J Castaneda*[1], SM Kiertscher[2], JD Roth[2], MD Roth[1,2], A Harui[2]; [1]Interdepartmental Program in Molecular Toxicology, University of California at Los Angeles, Los Angeles, CA 90026, [2]Pulmonary and Critical Care Medicine, David Geffen School of Medicine at UCLA, Los Angeles, CA 90095-1690.

W-13. **Autophagy is Involved in the Neurovascular Toxicity of Nanoalumina**. *L Chen*[1], B Hennig[2], M Toborek[1]; [1]Neurosurgery, University of Kentucky, Lexington, KY 40503, [2]College of Agriculture, University of Kentucky, Lexington, KY 40503.

W-14. **Methamphetamine Reduces Influenza A Virus Replication in Human Lung Epithelia Cells**. *YH Chen*[1], KL Wu[1], CH Chen[1]; [1]Division of Mental Health and Substance Abuse, National Health Research Institutes, Miaoli County, Taiwan, 35053.

W-15. **Bone-Derived Mesenchymal Stem Cells (B-MSCs) Provided Protection Against Morphine-Induced Splenic and Thymic Cell Depletion**. *K Cheng*[1], D Kumar[1], D Salhan[1], S Rehman[1], A Malhotra[1], S Gupta[2], P Singhal[1]; [1]Feinstein Institute for Medical Research, Long Island Jewish Medical Center, New Hyde Park, NY 11040, [2]Liver Center, Albert Einstein College of Medicine, Bronx, NY 10461.

W-16. **Lipopolysaccharide Potentiates PCB-Induced Disruption of the Integrity of Brain Endothelial Cells**. *JJ Choi*[1], YJ Choi[1], B Zhang[1], H Pu[1], L Chen[1], SY Eum[1], B Hennig[2], M Toborek[1]; [1]Department of Neurosurgery, University of Kentucky, Lexington, KY 40536, [2]College of Agriculture, University of Kentucky, Lexington, KY 40536.

W-17. **Astrocytic Nef Expression in Sprague Dawley Rats Impairs Spatial Memory**. *G Chompre*[1], E Cruz[2], L Maldonado[1], JT Porter[2], RJ Noel[1]; [1]Biochemistry Department, Ponce School of Medicine, Ponce, PR 00731, [2]Pharmacology and Physiology Department, Ponce School of Medicine, Ponce, PR 00731.

W-18. **Morphine Withdrawal Stress Synergized with Corticosterone to Inhibit IL-12p40 Expression by Hyperactivating ERK1/2**. *S Das*[1], S Roy[1]; [1]Department of Surgery, University of Minnesota, Minneapolis, MN 55455, [2]Department of Pharmacology, University of Minnesota, Minneapolis, MN 55455.

W-19. **Neuronal MicroRNA-142 is Up-Regulated in HIVE/SIVE and Inhibits the Expression of Key Proteins**. *A Datta Chaudhuri*[1], SV Yelamanchili[1], HS Fox[1]; [1]Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE 68198.

W-20. **Cocaine Increases Platelet-Derived Growth Factor Expression in Human Brain Microvessel Endothelial Cells through Notch-1 Signaling**. *MD Duan*[1], HY Yao[1], SB Buch[1]; [1]Department of Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE 68198.

W-21. **Differential Migration of Ly6C+ (Monocytes) and CD3+ T Cells Following Morphine and Tat Exposure**. *R Dutta*[1], R Charboneau[2], H Yu[1], J Meng[1], R Barke[2], S Roy[1]; [1]Department of Surgery, University of Minnesota, Minneapolis, MN 55455, [2]Department of Surgery, Veterans Affairs Medical Center, Minneapolis, MN 55417.

W-22. **Amelioration of HIV-1 Tat-Induced Neuronal Injury by Phytoestrogens**. *V Espensen-Sturges*[1], S Bertrand[1], MV Aksenova[1], MY Aksenov[1], S Adams[1], CF Mactutus[1], RM Booze[1]; [1]Department of Psychology, University of South Carolina, Columbia, SC 29208.

W-23. **Human Astrocytes Regulate miRNA Expression during Neuroinflammation**. *JA Fields*[1], A Ghorpade[1]; [1]Cell Biology and Anatomy, University of North Texas Health Science Center, Fort Worth, TX 76107.

W-24. **Morphine and HIV-1 Tat-Dependent Synaptodendritic Injury in Striatum: Focal Increases in Ca2+ and Differential Activation by NMDA and AMPA Receptors**. *S Fitting*[1], S Zou[1], PE Knapp[1], KF Hauser[1]; [1]School of Medicine, Virginia Commonwealth University, Richmond, VA 23298.

W-25. **Molecular Mechanism of Immunosuppression by Cocaine in HIV-1 Infected Subjects: Role of TLR3**. *N Gandhi*[1], M Agudelo[1], ZM Saiyed[1], Y Adriana[1], C Spadola[1], VB Pichili[1], T Samikkannu[1], N Jesica[1], P Khatavkar[1], MN Nair[1]; [1]Department of Immunology/ INIP, College of Medicine/Florida International University, Miami, FL 33199.

W-26. **Morphine Enhances HIV-1 Entry into Kidney Cells Through a Novel Pathway**. *HG Goel*[1], P Singh[1], A Malhotra[1], M Husain[1], P Singhal[1]; [1]Department of Nephrology, North Shore-Long Island Jewish Health System, Great Neck, NY 11021.

W-27. **Ethanol-Induced Upregulation of IL-6 and IL-8 in Astrocytes is Mediated by the NF-κB Pathway**. *R Gupte*[1], A Shah[1], S Kumar[1], A Kumar[1]; [1]Division of Pharmacology and Toxicology, University of Missouri-Kansas City, Kansas City, MO 64108.

W-28. **Interactive Effects of HIV-1 Tat and Opiates on CNS Progenitor Cells**. *YK Hahn*[1], CM Bull[1], S Fitting[2], P Vo[1], KF Hauser[2], PE Knapp[1]; [1]Departments of Anatomy & Neurobiology, Virginia Commonwealth University, Richmond, VA 23298, [2]Departments of Pharmacology & Toxicology, Virginia Commonwealth University, Richmond, VA 23298.

W-29. **CB2-Selective Cannabinoids Directly Inhibit T-Cell Function in the Mixed Lymphocyte Reaction (MLR)**. *RR Hartzell*[1], JJ Meissler[1], MW Adler[1], TK Eisenstein[1]; [1]Center for Substance Abuse Research, Temple University School of Medicine, Philadelphia, PA 19140, [2]Department of Microbiology and Immunology, Temple University School of Medicine, Philadelphia, PA 19140.

W-30. **Cytokine, Chemokine and their Receptors' Expression on Exposure to Endotoxin in the HIV-1 Transgenic Rat**. *N Homji-Mishra*[1], X Mao[1], EF Langsdorf[1], SL Chang[1,2] [1]Institute of NeuroImmune Pharmacology, Seton Hall University, South Orange, NJ 07079, [2]Department of Biological Science, Seton Hall University, South Orange, NJ 07079.

W-31. **HIV-1 Transgenic Rats: Alterations in the Preattentive Process of Sensorimotor Gating**. *LL Hord*[1], KM Webb[1], LM Moran[1], CF Mactutus[1], RM Booze[1]; [1]Behavioral Neuroscience Program, University of South Carolina, Columbia, SC 29223.

W-32. **MIR-29 Regulates Morphine and HIV Protein-Decreased Platelet-Derived Growth Factor Expression**. *GH Hu*[1], SB Buch[1]; [1]Department of Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE 68198-5880.

W-33. **PPAR-α and PPAR-γ Agonists Differentially Protect Against HIV Tat-Induced Alterations of Claudin-5 Expression and Activation of Redox Signaling in FVB/NJ Mice**. *W Huang*[1], L Chen[1], B Zhang[1], B Hennig[2], M Toborek[1]; [1]University of Kentucky, Neurosurgery, Lexington, KY 40536, [2]University of Kentucky, College of Agriculture, Lexington, KY 40536.

W-34. **The Role of Cytochrome P450 on Alcohol/Nicotine-Mediated Oxidative Stress in U937 Macrophages**. *M Jin*[1], R Earla[1], AK Shah[1], R Gupte[1], AK Mitra[1], A Kumar[1], S Kumar[1]; [1]School of Pharmacy, University of Missouri-Kansas City, Kansas City, MO 64108.

W-35. **Chemokine CXCL8 is Regulated in Activated Astrocytes through MAPKs and SHP-2**. *M Kaur*[1], L Tang[1], K Borgmann[1], A Ghorpade[1]; [1]Department of Cell Biology and Anatomy, University of North Texas Health Science Center, Fort Worth, TX 76107.

W-36. **Tumor Necrosis Factor-α Enhances Astrogliogenesis and Inhibits Neurogenesis of Human Fetal Neural Progenitor Cells though JNK/STAT3 Pathway**. *X Lan*[1], H Peng[1], J Zheng[1]; [1]Laboratory of Neuroimmunology and Regenerative Therapy, University of Nebraska Medical Center, Omaha, NE 68198.

W-37. **Negative Regulation of Neuronal Differentiation by TLR4 Activation**. *JL Li*[1], L Ye[1], X Wang[1], YZ Wang[1], Y Persidsky[1], WZ Ho[1]; [1]Department of Pathology, School of Medicine, Temple University, Philadelphia, PA 19140.

W-38. **HIV-1 Nef Expression in Rat Hippocampus Induces Inflammatory Cytokines in Serum and Peyer's Patches in the GI Tract**. *R Loucil*[1], G Chompre[1], M Cruz[2], C Appleyard[2], R Noel[1]; [1]Biochemistry Department, Ponce School of Medicine, Ponce, PR 00731, [2]Physiology Department, Ponce School of Medicine, Ponce, PR 00731.

W-39. **Mechanism Underlying Methamphetamine Induced Autophagy and Apoptotic Death in Endothelial Cells**. *J Ma*[1], S Ramakrishnan[2], H Yu[1], R Charboneau[3], R Barke[3], S Roy[1]; [1]Department of Surgery, University of Minnesota, Minneapolis, MN 55455, [2]Department of Pharmacology, University of Minnesota, Minneapolis, MN 55455, [3]Department of Surgery, Veterans Affairs Medical Center, Minneapolis, MN 55417.

W-40. **Dynamics of Dendritic Cells and T Cells in HTLV-1-Associated Neuroinflammatory Disease: Implications in Immunomodulatory Therapies and Diagnostic Tools**. *SL Manuel*[1], G Makedonas[2], MR Betts[2], J Gardner[2], JJ Goedert[3], ZK Khan[1], B Wigdahl[4], P Jain[1]; [1]Drexel Institute for Biotechnology & Virology Research, Drexel University College of Medicine, Doylestown, PA 18902, [2]Department of Microbiology and Immunology, University of Pennsylvania School of Medicine, Philadelphia, PA 19104, [3]Division of Cancer Epidemiology and Genetics, National Cancer Institute, Bethesda, MD 20892, [4]Institute for Molecular Medicine & Infectious Disease, Drexel University College of Medicine, Philadelphia, PA 19102.

W-41. **Bryostatin Protects Neurons Against HIV-Induced Inflammation**. *R Mehla*[1], S Bivalkar-Mehla[1], A Chauhan[1]; [1]Department of Pathology, Microbiology and Immunology, University of South Carolina, School of Medicine, Columbia, SC 29209.

W-42. **Morphine Induces Spontaneous Sepsis in Mice by Modulating TLR Signaling**. *JJ Meng*[1], J Wang[2], J Ma[2], R Charboneau[3], S Roy[1]; [1]Department of Pharmacology, University of Minnesota, Minneapolis, MN 55455, [2]Department of Surgery, University of Minnesota, Minneapolis, MN 55455, [3]Department of Surgery, Veterans Affairs Medical Center, Minneapolis, MN 55417.

W-43. **HIV-1 Transgenic Rats: Disruption of Sensorimotor Gating by Methamphetamine Challenge**. *LM Moran*[1], KM Webb[1], LL Hord[1], RM Booze[1], CF Mactutus[1]; [1]Behavioral Neuroscience Program, University of South Carolina, Columbia, SC 29223.

W-44. **Cannabinoid Receptor Expression on Peripheral Blood Mononuclear Cells of HIV Subjects and Marijuana Users by Flow Cytometry**. *SM Munsaka*[1], U Feger[1], M Andres[1], L Chang[1]; [1]Department of Medicine, John A. Burns School of Medicine, Honolulu, HI 96813.

W-45. **Memory T-Cells Persisting in the Brain Following MCMV Infection Induce Long-Term Microglial Activation via IFN-γ Production**. *MB Mutnal*[1], S Hu[1], MR Little[1], JR Lokensgard[1]; [1]CIDMTR, University of Minnesota, Minneapolis, MN 55455.

W-46. **Human Immunodeficiency Virus Type 1 (HIV-1) Infects Human Brain Pericytes In Vitro**. *S Nakagawa*[1], M Toborek[1]; [1]Department of Neurosurgery, University of Kentucky, Lexington, KY 40536.

W-47. **Evidence of Neuroprotection by PDIA3 in SIV/Methamphetamine Rhesus Macaques**. *C Ninemire*[1], G Pendyala[1], HS Fox[1]; [1]Pharmacology and Experimental Neuroscience, University Nebraska Medical Center, Omaha, NE 68198.

W-48. **Impact of Chronic Opioid Exposure on HIV-1 Infection in the Bone Marrow**. *N. Parikh*[1], B. Wigdahl[1], M. Nonnemacher[1]; [1]Microbiology and Immunology, Drexel University College of Medicine, Philadelphia, PA 19102.

W-49. **Methamphetamine Translocates Occludin to Endosomes in Human Cerebral Endothelial Cells**. *M Park*[1], B Hennig[2], M Toborek[1]; [1]Department of Neurosurgery , University of Kentucky Medical Center, Lexington, KY 40536, [2]College of Agriculture, University of Kentucky , Lexington, KY 40536.

W-50. **Suppression of Tat-Mediated Neurotoxicity and Glial Inflammatory Signaling through Modulation of the CC Chemokine Receptor 5**. *EP Podhaizer*[1], PE Knapp[2], KF Hauser[1]; [1]Department of Pharmacology & Toxicology, Virginia Commonwealth University, Richmond, VA 23298, [2]Department of Anatomy & Neurobiology, Virginia Commonwealth University, Richmond, VA 23298.

W-51. **Physical Activity Protects Against Methamphetamine-Induced Blood-Brain Barrier Dysfunction**. *CS Rashid*[1], MJ Seelbach[1], L Chen[1], IE András[1], B Hennig[1], KA Esser[1], M Toborek[1]; [1]Graduate Center for Nutritional Sciences, University of Kentucky, Lexington, KY 40536.

W-52. **Down Regulation of Longevity Gene P66ShcA Rescues HIV-1- and Opiate-Induced T Cell Apoptosis**. *S Rehman*[1], D Kumar[1], A Malhotra[1], M Husain[1], PC Singhal[1]; [1]Department of Nephrology, North Shore-LIJ, 100 Community Drive, Great Neck, NY 11021.

W-53. **Effect of Opiates in a HIV-Infected Human Glia-Neuron Crosstalk System**. *M Rodriguez-Martinez*[1], K Hauser[2], E Rios-Olivares[1], JW Rodriguez[1]; [1]Department of Microbiology and Immunology, Universidad Central del Caribe School of Medicine, Bayamon, PR 00960, [2]Department of Pharmacology and Toxicology, Virginia Commonwealth University, Richmond, VA 23298.

W-54. **Glycogen Synthase Kinase 3β (GSK3β) Inhibition Prevents Monocyte (Mo) Migration Across Blood Brain Barrier (BBB) via Rho/Rac Suppression**. *S Rom*[1], S Fan[1], H Dykstra[1], N Reichenbach[1], S Ramirez[1], Y Persidsky[1]; [1]Department of Pathology and Laboratory Medicine, Temple University School of Medicine, Philadelphia, PA 19140.

W-55. **Biodistribution and Efficacy of Nanoformulated Antiretroviral Drugs**. *U Roy*[1], P Dash[1], S Balkundi[1], PR Bathena[1], A Nowacek[1], L Poluektova[1], J McMillan[1], K Fletcher[1], Y Alnouti[1], H Gendelman[1]; [1]Department of Pharmacology and Experimental Neurosciences, University of Nebraska Medical Center, Omaha, NE 68198.

W-56. **Elevated Expression of HIV Viral Proteins in the Liver and Spleen of HIV-1 Transgenic Rats Treated with High Concentration of Ethanol**. *S Sarkar*[1], EF Langsdorf[1], C Liu[1], SL Chang[1,2]; [1]Institute of NeuroImmune Pharmacology and [2]Department of Biological Sciences, Seton Hall University, South Orange, NJ 07079.

W-57. **Effect of Antioxidant Response Modulation on HSV-Induced Oxidative Damage**. *SJ Schachtele*[1], S Hu[1], MR Little[1], JR Lokensgard[1]; [1]Center for Infectious Diseases and Microbiology Translational Research, University of Minnesota, Minneapolis, MN 55455.

W-58. **HIV-1 Glycoprotein 120 Induces the Pro-Inflammatory Cytokine IL-6 via the NF-κB Pathway and Methamphetamine can Synergistically Potentiate gp120-Mediated IL-6 Induction**. *A Shah*[1], A Kumar[1]; [1]Division of Pharmacology & Toxicology, University of Missouri - Kansas City, Kansas City, MO 64108.

W-59. **Methamphetamine and HIV-1 Tat Cooperate to Down-Regulate a Prominent Pro-Survival Pathway in Astrocytes, the Wnt Signaling Pathway**. *A Sharma*[1], X Hu[2], C Napier[2], L Al-Harthi[1]; [1]Department of Immunology/ Microbiology, Rush University Medical Center, and Chicago CFAR, Chicago, IL 60612, [2]Department of Pharmacology/Center for Compulsive Behavior & Addiction, Rush University Medical Center, and Chicago CFAR, Chicago, IL 60612.

W-60. **Phosphorylation of Serine Resides in both the First Intracellular Loop and C-Terminal Region Differentially Regulates the Signaling Properties of CCR5**. *C Song*[1], L Zhang[1], TJ Rogers[1]; [1]CILR, Temple University School of Medicine, Philadelphia, PA 19140.

W-61. **Exposure of TF-1 Hematopoietic Progenitor Cells to the Mu-Opioid Agonist DAMGO Leads to Altered Surface Expression of CXCR4 and Decreased HIV-1 Replication**. *M. Strazza*[1], S. Passic[1], V. Pirrone[1], O. Meucci[1], B. Wigdahl[1], M. Nonnemacher[1]; [1]Microbiology and Immunology, Drexel University College of Medicine, Philadelphia, PA 19102.

W-62. **Culture Oxygen Affects Tat and Nef Toxicity in Rat Striatal Neurons**. *LM Tiede*[1], EA Cook[1], B Morsey[1], H Fox[1]; [1]Department of Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE 68123.

W-63. **Speedball Enhances Cytokine Production in Presence of HIV Vpr**. *L Torres*[1], LG Rivera[1], RJ Noel Jr[1]; [1]Department of Biochemistry, Ponce School of Medicine, Ponce, PR 00716.

W-64. **Astrocyte Elevated Gene-1 Contributes to HIV-1-Associated Dementia by Modulating Astrocyte Responses to Inflammation and Injury**. *N Vartak*[1], K Borgmann[1], L Tang[1], A Ghorpade[1]; [1]Department of Cell Biology and Anatomy, University of North Texas Health Science Center, Fort Worth, TX 76107.

W-65. **HIV-1 Envelope Evolution and Cognitive Dysfunction Progression in Puerto Rican Women Infected with HIV-1**. *FJ Vázquez-Santiago*[1], LM Meléndez[2], M Plaud-Valentín[2], V Wojna[2], RJ Noel Jr[1], V Rivera-Amill[1]; [1]Department of Microbiology, Ponce School of Medicine, Ponce, PR 00732-7004, [2]Department of Microbiology and Medical Zoology, University of Puerto Rico Medical Sciences Campus, San Juan, PR 00936-5067.

W-66. **Involvement of 4-Aminopuridine-Sensitive K+ Current in Methamphetamine-Induced Hippocampal Neuronal Apoptosis**. *J Wang*[1], H Xiao[2], H Xiong[1]; [1]Department of Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE 68198-5880, [2]Department of Toxicology, School of Public Health, Nanjing Medical University, Nanjing, China 210029.

W-67. **Morphine Suppresses the Cellular Restriction Factors of AIDS Virus Infection**. *YZ Wang*[1], X Wang[1], L Ye[1], JL Li[1], L Song[1], N Fulambarkar[1], WZ Ho[1]; [1]Department of Pathology & Laboratory Medicine, Temple University School of Medicine, Philadelphia, PA 19140.

W-68. **Mycophenolate Mofetil Inhibits Hepatitis C Virus Replication in Hepatocytes**. *L Ye*[1], JL Li[1], X Wang[1], YZ Wang[1], H Parekh[1], WZ Ho[1]; [1]Department of Pathology and Laboratory Medicine, Temple University School of Medicine, Philadelphia, PA 19140.

W-69. **ZO-1 Nuclear Translocation by Rho Signaling is Involved in HIV Tat-Induced Alterations of Claudin-5 Expression**. *Y Zhong*[1], SY Eum[1], B Hennig[2], M Toborek[1]; [1]Department of Neurosurgery, University of Kentucky, Lexington, KY 40536, [2]College of Agriculture, University of Kentucky, Lexington, KY 40536.

W-70. **HIV-1 Tat and Morphine Affect Calcium Levels and Viability of Oligodendroglia: Evidence for NMDA Effects**. *S Zou*[1], S Fitting[2], KF Hauser[2], PE Knapp[1]; [1]Department of Anatomy and Neurobiology, Virginia Commonwealth University, Richmond, VA 23298, [2]Department of Pharmacology and Toxicology, Virginia Commonwealth University, Richmond, VA 23298.

Please remember to take down all posters immediately after the session

7:30 – 9:00 PM **Meet the Mentors Dinner** (*Water's Edge Ballroom*)

Hosted by Sylvia Kiertscher, Ph.D. (David Geffen School of Medicine/UCLA)
Brian Wigdahl, Ph.D. (Drexel University College of Medicine)
and the Young Investigator's Award Committee

Featured speaker: Larry Robinson, Ph.D., Provost, Seton Hall University

Lecture: "The Value of Mentoring"

For Young Investigators who are presenting their work at the Conference and who have ***Confirmed their Dinner Reservation*** *with the YITA Awards Committee*

Thursday, April 7, 2011

7:00 – 8:00 AM **Continental Breakfast** (*Salon E*)

Reminder - Put up Posters for Poster Session II

8:00 – 8:15 AM **INTRODUCTION TO THE MEETING** (*All main sessions held in Salons A-D*)

Welcome from the Society on NeuroImmune Pharmacology

8:00 – 8:10 AM **Toby K. Eisenstein, Ph.D.** - **SNIP President**
(Temple University School of Medicine, Philadelphia, PA)

8:10 – 8:15 AM **Sulie L. Chang, Ph.D.** - **Chair, SNIP Meetings Committee**
(Seton Hall University, South Orange, NJ)

8:15 – 9:05 AM **PLENARY LECTURE I: Horace H. Loh**, **Ph.D.** – University of Minnesota

8:15 – 8:20 AM Introduction by **Toby K. Eisenstein, Ph.D.** – **SNIP President**

8:20 – 9:05 AM **Lecture:** *"Receptor Engineering in the Treatment of Pain – Our Search for the Ideal Analgesic"*

9:10 – 11:20 AM **SYMPOSIUM I**: **Neuroimmune Interactions – The New Frontier for Drugs of Abuse and their Endogenous Ligands**

Session Co-Chairs: **Martin W. Adler, Ph.D.** – Temple University School of Medicine, Philadelphia, PA

Toby K. Eisenstein, Ph.D. – Temple University School of Medicine, Philadelphia, PA

9:10 – 9:30 **Lecture 1: Toby K. Eisenstein, Ph.D.** – Temple University School of Medicine, Philadelphia, PA

"Neuroimmune Interactions and Drugs of Abuse Come of Age"

9:35 – 9:55 AM **Coffee Break** (*Salon E*)

9:55 – 10:25 **Symposium Lecture: Kevin J. Tracey, Ph.D.** – Director, Feinstein Institute for Medical Research, Manhasset, NY

"The Cholinergic Anti-Inflammatory Pathway and Innate Immunity"

10:30 – 10:50 **Lecture 2: Lynn Kirby, Ph.D.** – Temple University School of Medicine, Philadelphia, PA

"Chemokines as Neuromodulators"

10:55 – 11:15 **Lecture 3: R. Bryan Rock, M.D.** – University of Minnesota, Minneapolis, MN

"Cannabinoid Receptor Expression in Primary Human Microglia: The Role of CB2"

11:20 – 12:20 PM **Lunch on your own**

12:20 – 1:20 PM **SNIP Annual Business Meeting** (*Salons A-D*)

All Society Members are requested to attend and all attendees welcome

Note: Coffee Break at 2:45 – 3:15 PM during the Poster Session

1:20 – 3:20 PM **POSTER SESSION II – General Poster Session** (*Salon E*)
*Please have **ALL** posters mounted on poster boards by 1:20 PM.*
Odd numbered posters (T1, T3, etc.) to be presented from 1:20 – 2:20 PM
Even numbered posters (T2, T4, etc.) to be presented from 2:20 – 3:20 PM

Poster Titles listed by assigned Poster Board Numbers
(see *Journal of Neuroimmune Pharmacology* for complete abstracts)

T-1. **Synaptodendritic Alterations Induced by HIV-1 Tat in Hippocampal Neurons**. *MV Aksenova*[1], MY Aksenov[1], S Bertrand[1], CF Mactutus[1], RM Booze[1]; [1]Department of Psychology, University of South Carolina, Columbia, SC 29208.

T-2. **Alcohol Redistributes Membrane Lipids and Calcium Permeable AMPA Receptors to Focal Dendrite Microdomains**. *M Bae*[1], H Xu[1], VR VV Ratnam Bandaru[1], NJ Haughey[1]; [1]Department of Neurology, Johns Hopkins University School of Medicine, Baltimore, MD 21287.

T-3. **The Effect of gp120 on the Antinociceptive and Neurophysiological Effects of Morphine**. *X Chen*[1], LG Kirby[1], J Palma[1], EB Geller[1], TK Eisenstein[1], MW Adler[1]; [1]Center for Substance Abuse Research, Temple University School of Medicine, Philadelphia, PA 19140.

T-4. **Morphine-Induced Reversible Inhibition of Renal Tubular Secretion of ^{99}mTC-MAG3 in Mice**. *K Cheng*[1], K Bhagarva[2], D Kumar[1], D Salhan[1], A Malhotra[1], CJ Palestro[2], S Gupta[3], PC Singhal[1]; [1]Feinstein Institute for Medical Research, Long Island Jewish Medical Center, New Hyde Park, NY 11040, [2]Department of Nuclear Medicine, Long Island Jewish Medical Center, New Hyde Park, NY 11040, [3]Liver Center, Albert Einstein College of Medicine, Bronx, NY 10461.

T-5. **Role of MEKK3 and TAK1 in C3 Gene Regulation by IL-1β**. *P Datta*[1], J Rappaport[1]; [1]Neuroscience, Center for Neurovirology, Temple University, Philadelphia, PA 19140.

T-6. **Opioids Block the Effects of the HIV Entry Inhibitors Maraviroc and AMD-3100 in CNS Glia**. *N El-Hage*[1], SM Dever[1], T Ahmed[1], Y Zhang[2], KF Hauser[1]; [1]Department of Pharmacology & Toxicology, Virginia Commonwealth University, Richmond, VA 23298, [2]Department of Medicinal Chemistry, Virginia Commonwealth University, Richmond, VA 23298.

T-7. **Protein Phosphatase 2A Activation Leads to Threonine Dephosphorylation of Occludin in Human Brain Endothelial Cells Exposed to PCB153**. *SY Eum*[1], IE Andras[1], JJ Choi[1], M Toborek[1]; [1]Department of Neurosurgery, University of Kentucky, Lexington, KY 40536.

T-8. **Dopamine Modulation of Macrophage Function may Facilitate Development of HIV-Associated Neurological Disorders**. *PJ Gaskill*[1], JW Berman[1]; [1]Pathology, Albert Einstein College of Medicine, Bronx, NY 10461.

T-9. **Linkages between Cannabinoid 2 Receptor Activation and CD38**. *S Gorantla*[1], HE Gendelman[1], L. Poluektova[1]; [1]Department of Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE 68198.

T-10. **HIV Infection and Recent Illicit Drug Use Synergistically Affect Verbal Learning and Memory in Women.** *V Grauzas*[1], LH Rubin[1], EM Martin[1], K Weber[2], MH Cohen[3], ET Golub[4], V Valcour[5], MA Young[6], H Crystal[7], K Anastos[8], BE Aouizerat[5], J Milam[9], PM Maki[1]; [1]Psychiatry Department, University of Illinois at Chicago, Chicago, IL 60612, [2]Chicago WIHS Center, CORE Center at Stroger Hospital, Chicago, IL 60612, [3]Chicago WIHS Center, Rush University and Stroger Hospital, Chicago , IL 60612, [4]WIHS Data Management and Analysis Center, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD 21205, [5]San Francisco WIHS Center, University of California, San Francisco, San Francisco, CA 94143, [6]DC WIHS Center, Georgetown University Medical Center, Washington, DC 20007, [7]Brooklyn WIHS Center, SUNY Downstate Medical Center, Brooklyn, NY 11203, [8]Bronx WIHS Center, Montefiore Medical Center and Albert Einstein College of Medicine, Bronx, NY 10467, [9]Los Angeles WIHS Center, University of Southern California, Los Angeles, CA 90033.

T-11. **Mechanisms of BBB Damage and Hemorrhagic Stroke in Chronic Methamphetamine Abuse**. *J Haorah*[1], MA Muneer[1], S Alikunju[1], A Szlachetka[1]; [1]Department of Pharmacology and Experimental Neuroscience, University of Nebraska, Omaha, NE 68198.

T-12. **Morphine Potentiates Neuropathogenesis of SIV Infection in Rhesus Macaques**. *R Hegde*[1], SM Bokhari[1], S Callen[2], H Yao[2], I Adany[1], Z Li[1], PD Cheney[1], O Narayan[1], S Buch[2]; [1]Department of Molecular & Integrative Physiology, University of Kansas Medical Center, Kansas, KS 66160, [2]Department of Pharmacology & Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE 68198.

T-13. **Herpes Simplex Virus-1-Induced Reactive Oxygen Species Stimulate Cytokine Production in Murine Microglia**. *S Hu*[1], WS Sheng[1], SJ Schachtele[1], JR Lokensgard[1]; [1]Neuroimmunology Laboratory, Center for Infectious Disease, University of Minnesota Medical School, Minneapolis, MN 55455.

T-14. **Increased Ca2+ Influx and Pathophysiological Mechanisms Underlying the Excitotoxicity of HIV-1 Tat**. *XT Hu*[1], L Al-Harthi[1], TC Napier[1]; [1]Departments of Pharmacology, Immunology/Microbiology, Center for Compulsive Behavior and Addiction, Rush University Medical Center and Chicago D-CFAR, Chicago, IL 60612.

T-15. **Comparative Evaluation of Immune Cell Trafficking Across the Blood-Brain Barrier during Steady-State and Under the Neuroinflammation**. *ZK Khan*[1], DS Sagar[1], EA Acheampong[1], SR Rahman[1], SM Manuel[1], PJ Jain[1]; [1]Drexel Institute For Biotechnology & Virology, Drexel University College of Medicine, Doylestown, PA 18902.

T-16. **Association of Dopamine Receptor D2 C957T Gene SNP in Learning and Memory among HIV-Positive Alcohol Abusers**. *P Khatavkar*[1], V Bryant[1], R Rosenberg[1], R Malow[1], J Devieux[1], Z Saiyed[2], S Thangavel[2], M Agudelo[2], M Nair[2]; [1]Stempel College of Public Health and Social Work, Florida International University, Miami, FL 33199, [2]Institute of NeuroPharmacology, Herbert Wertheim College of Medicine, Florida International University, Miami, FL 33199.

T-17. **Ethanol-CYP3A4-Protease Inhibitors Three-Way Interactions: Implications for HAART Medications in Alcoholic HIV+ Individuals**. *S Kumar*[1], M Jin[1], A Kumar[1]; [1]Pharmacology and Toxicology, School of Pharmacy, University of Missouri-Kansas City, Kansas City, MO 64108.

T-18. **Modulation of Innate Immune-Related Pathways in Nicotine-Treated SH-SY5Y Cells**. *MD Li*[1], WY Cui[1], JZ Ma[1], SL Chang[2]; [1]Department of Psychiatry and Neurobehavioral Sciences, University of Virginia, Charlottesville, VA 22911, [2]Department of Biology, Seton Hall University, South Orange, NJ 07079.

T-19. **HIV-1 gp120 Enhances Outward K+ Current and Resultant Neurotoxic Activity in Cultured Rat Microglia**. *J Liu*[1], CH Xu[1], LN Chen[1], H Xiong[1]; [1]Department of Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE 68198-5880.

T-20. **HIV-1 Tat Protein Expression in Mouse Brain Potentiates the Psychostimulant Effects of Cocaine and Reinstates an Extinguished Cocaine Craving**. *JP McLaughlin*[1], CF Shay[2], SM Gomes[2], AM Carey[2]; [1]Department of Biology, Torrey Pines Institute of Molecular Studies, Port St. Lucie, FL 34987, [2]Department of Psychology, Northeastern University, Boston, MA 02115.

T-21. **HIV-1 Tat Protein Decreases Dopamine Transporter Cell Surface Expression and Vesicular Monoamine Transporter-2 Function**. *NM Midde*[1], AM Gomez[1], J Zhu[1]; [1]Department of Pharmaceutical and Biomedical Sciences, University of South Carolina, Columbia, SC 29208.

T-22. **Systems Biology Analysis of Gut-Specific Mechanisms Underlying Chronic Δ-9-THC Modulation of Simian Immunodeficiency Virus Infection**. *PE Molina*[1], NJ LeCapitaine[1], J Zabaleta[1], A Amedee[1], P Zhang[1], P Winsauer[1]; [1]Physiology/School of Medicine, Louisiana State University Health Sciences Center, New Orleans, LA 70112.

T-23. **Attenuation of High-Fat-Diet-Induced Neuroinflammation by** *Momordica charantia*. *PV Nerurkar*[1], LM Johns[1], LM Buesa[1], G Kipyakwai[1], E Volper[2], R Sato[1], P Shah[1], VR Nerurkar[2]; [1]College of Tropical Agriculture & Human Resources, University of Hawaii, Honolulu, HI 96822, [2]John A. Burns School of Medicine, University of Hawaii, Honolulu, HI 96813.

T-24. **Possible Role of GPR55 in the Cannabinoid-Induced Increase in Serum IgE in Mice**. *C Newton*[1], C Patterson[1], T Klein[1]; [1]Molecular Medicine, University of South Florida College of Medicine, Tampa, FL 33612.

T-25. **HIV-1 LTR Single Nucleotide Polymorphisms Correlate with Use of Drugs of Abuse in the DrexelMed HIV/AIDS Genetic Analysis Cohort**. *MR Nonnemacher*[1], B Aiamkitsumrit[1], V Pirrone[1], A Wojno[1], S Passic[1], B Blakey[1], J Ku[1], N Parikh[1], B Moldover[3], R Feng[4], L Servance[2], D Downie[2], S Lewis[2], J Jacobson[2], B Wigdahl[1]; [1]Department of Microbiology and Immunology, Drexel University College of Medicine, Philadelphia, PA 19102, [2]Division of Infectious Disease and HIV Medicine, Drexel University College of Medicine, Philadelphia, PA 19102, [3]B-Tech Consulting, Ltd, Philadelphia, PA 19104, [4]Department of Biostatistics and Epidemiology, University of Pennsylvania, Philadelphia, PA 19104.

T-26. **Inhibition of Antibody Class Switching to IgE by SiRNA Targeting Cannabinoid Receptors**. *CE Patterson*[1], C Newton[1], TW Klein[1]; [1]Department of Molecular Medicine, University of South Florida, Tampa, FL 33612.

T-27. **Deciphering Synaptic Perturbations during HIV/METH CNS Dysfunction**. *G Pendyala*[1], HS Fox[1]; [1]Department of Pharmacology & Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE 68198.

T-28. **Activation of the Antioxidant Defensive Enzymes against HIV-1 gp120 are Mediated by Oxidative Stress and Elevated Intracellular Calcium Levels**. *VB Pichili*[1], Z Saiyed[1], T Samikkannu[1], M Agudelo[1], N Gandhi[1], A Yndart[1], MP Nair[1]; [1]Department of Immunology, Institute of NeuroImmune Pharmacology, Florida International University, Miami, FL 33136.

T-29. **Methamphetamine Alters T Cell Cycle Progression: Role in Immune Dysfunction**. *R Potula*[1], J Cenna[1], S Fan[1]; [1]Pathology and Laboratory Medicine, Temple University School of Medicine, Philadelphia, PA 19140.

T-30. **Cannabinoid Receptor Expression in Primary Human Microglia: The Role of CB2**. *RB Rock*[1], S Hu[1], WS Sheng[1], PK Peterson[1]; [1]Center for Infectious Diseases and Microbiology Translational Research, University of Minnesota, Minneapolis, MN 55455.

T-31. **Tobacco Cembranoid 4R Attenuates HIV Neurotoxicity by Glutamate Release Reduction Independent of Viral Replication and Inflammation**. *JW Rodriguez*[1], M Rodriguez-Martinez[1], PA Ferchmin[1], E Rios-Olivares[1], D Wang[2], A Nath[2], VA Eterovic[1]; [1]Department of Microbiology and Immunology, Universidad Central del Caribe School of Medicine, Bayamon, PR 00960, [2]Department of Neurology, Johns Hopkins University School of Medicine, Baltimore, MD 21287.

T-32. **MicroRNA Profiling in Human Brain Microvascular Endothelial Cells after Inflammatory Insult and Inhibition of Glycogen Synthase Kinase 3β (GSK3β)**. *S Rom*[1], S Fan[1], S Dykstra[1], N Reichenbach[1], S Ramirez[1], Y Persidsky[1]; [1]Department of Pathology and Laboratory Medicine, Temple University School of Medicine, Philadelphia, PA 19140.

T-33. **Differential Regulation of Neuroplasticity Associated Genes by HIV-1B and C Clades**. *ZM Saiyed*[1], NH Gandhi[1], J Napuri[1], A Yndart[1], M Agudelo[1], VB Pichili[1], T Samikkannu[1], MN Nair[1]; [1]Immunology, Institute of NeuroImmune Pharmacology, College of Medicine, Florida International University, Miami, FL 33199.

T-34. **Differential Regulation of Thiol Modification by HIV-1 Clade B and C Protein**. *T Samikkannu*[1], Z Saiyed[1], M Agudelo[1], PV Reddy[1], D Nwankwo[1], N Gandhi[1], P Khatavkar[1], Y Yndart[1], MP Nair[1]; [1]Department of Immunology, Institute of NeuroImmune Pharmacology (NIP), College of Medicine, Florida International University, Miami, FL 33199.

T-35. **Inhibition of Reactive Oxygen Species Production from Activated Human Astrocytes by Synthetic Cannabinoids**. *W Sheng*[1], S Hu[1], A Feng[1], PK Peterson[1], RB Rock[1]; [1]Center for Infectious Diseases and Microbiology Translational Research, University of Minnesota Medical School, Minneapolis, MN 55455.

T-36. **Lipopolysaccharide Differentially Regulates MDR1 and MRP1 in Human Macrophages**. *PS Silverstein*[1], A Kumar[1]; [1]Division of Pharmacology and Toxicology, School of Pharmacy, University of Missouri-Kansas City, Kansas City, MI 64108.

T-37. **HIV Induce Differential Interclade Human Neuronal Responses by Proteomic Fingerprinting**. *K Trujillo-Nevarez*[1], G Gonzalez[1], L Cubano[1], E Rios-Olivares[1], JW Rodriguez[1], NM Boukli[1]; [1]Department of Microbiology and Immunology, Universidad Central del Caribe, Bayamon, PR 00960.

T-38. **Lipopolysaccharide Treatment Increases Ethanol Preference but not Sign-Tracking of Ethanol in Male Long-Evans Rats.** *M Vigorito*[1,3], JD Casachahua[1], C Michaels[1], A Rivera[1,3], N Anastasides[1,3], SL Chang[2,3]; [1]Department of Psychology and [2]Department of Biological Sciences, Seton Hall University, South Orange, NJ 07079, [3]Institute for Neuroimmune Pharmacology, Seton Hall University, South Orange, NJ 07079.

T-39. **Modulation of Intracellular Restriction Factors Contributes to Methamphetamine-Mediated Enhancement of AIDS Virus Infection of Macrophages**. *X Wang*[1], YZ Wang[1], L Ye[1], JL Li[1], L Song[1], N Fulambarkar[1], WZ Ho[1]; [1]Department of Pathology and Laboratory Medicine, Temple University School of Medicine, Philadelphia, PA 19140.

T-40. **TRPC Channel-Mediated Neuroprotection by PDGF Involves Pyk2/ERK/CREB Pathway**. *HH Yao*[1]; Ming Duan[1] and Shilpa Buch[1], [1]Department of Pharmacology, University of Nebraska Medical Center, Omaha, NE 68198.

T-41. **Role of Oxidative Stress/Hypoxia-Inducible Factor-1 alpha/PDGF Axis in HIV-Associated Vascular Remodeling**. *N Dhillon*[1], H Gu[1], X Bing[1], A O'Brien-Ladner[2]; [1]Molecular and Integrative Physiology, University of Kansas Medical Center, Kansas City, KS 66160, [2]Pulmonary and Critical Care Medicine, University of Kansas Medical Center, Kansas City, KS 66160.

Please remember to take down all posters immediately after the session

3:20 – 5:25 PM **SYMPOSIUM II**: **Modulation of the Peripheral Immune System by Drugs of Abuse and HIV**

Session Co-Chairs: **Guy A. Cabral, Ph.D.** – Virginia Commonwealth University, School of Medicine, Richmond, VA

Sabita Roy, Ph.D. – University of Minnesota Academic Health Center, Minneapolis, MN

3:20 – 3:50 **Symposium Lecture: Satya Dandekar, Ph.D.** – University of California at Davis, Davis, CA

"Gut, Germs and HIV Pathogenesis of Immune and Neurological Disease"

3:55 – 4:15 **Lecture 1: Lena Al-Harthi, Ph.D.** – Rush University Medical Ctr, Chicago, IL

"The Role of T cell Activation and T cell Subset in Anti-HIV Immunity"

4:20 – 4:40 **Lecture 2: Tom Molitor, Ph.D.** – University of Minnesota College of Veterinary Medicine, Minneapolis, MN

"Drug Abuse Modulates Maternal Immunity and its Influence on Neonatal Immune Development"

4:45 – 5:00 **Lecture 3: Honghong Yao, Ph.D.** – University of Nebraska Medical Center, Omaha, NE

"Cocaine Cracks open the Blood Brain Barrier: Role of PDGF"

5:05 – 5:20 **Lecture 4: Li Liu, Ph.D.** – The University of Hong Kong, Hong Kong SAR, China

"The Effect of Tetrahydrocannabinol (THC) on SIVmac251 Infection in Chinese Macaques"

5:25 – 5:45 PM Refreshments and Late Afternoon Appetizers (*Salon E*)

5:45 – 7:00 PM **Special Session**

Presentation on "Video Research Coming of Age"
Howard E. Gendelman, M.D. – University of Nebraska Medical Center, Omaha, NE

Teaching and Learning in Neuroimmune Pharmacology

Session Co-Chairs: **Thomas J. Rogers, Ph.D.** – Temple University School of Medicine, Philadelphia, PA

Tom Molitor, Ph.D. – University of Minnesota College of Veterinary Medicine, Minneapolis, MN

Round-Table Discussion of important issues related to teaching in the field of Neuroimmune Pharmacology with:

Shilpa Buch, Ph.D., Guy Cabral, Ph.D., Sulie L. Chang, Ph.D., Yun-Hsiang Chen, Ph.D., Howard E. Gendelman, M.D., Tom Molitor, Ph.D., Thomas J. Rogers, Ph.D. and Valerie Wojna, M.D.

Friday, April 8, 2011

7:00 – 8:00 AM **Continental Breakfast** (*Grand Ballroom Foyer)*

8:00 – 9:15 AM **SYMPOSIUM III**: **Management of Neuropsychiatric Complications of Infectious Diseases and Substances of Abuse**

Session Co-Chairs: **Jag Khalsa, Ph.D.** – Chief, Medical Consequences Branch, Division of Pharmacotherapies and Medical Consequences of Drug Abuse, NIDA

Michael Roth, M.D. – David Geffen School of Medicine, UCLA, Los Angeles, CA

8:00 – 8:20 **Lecture 1: David Thomas, Ph.D.** – Johns Hopkins University of School of Medicine, Baltimore, MD

"Natural History and Pathogenesis of HIV and Hepatitis C"

8:25 – 8:45 **Lecture 2: Glen Treisman, M.D.** – Johns Hopkins University of School of Medicine, Baltimore, MD

"Management of Neuropsychiatric Complications of Infection (HIV, HCV)

8:50 – 9:10 **Lecture 3: Susanna Naggie, M.D.** – Duke University School of Medicine, Durham, NC

"Investigational Agents for Chronic Viral Infections: HIV and HCV"

9:15 – 9:30 AM **Coffee Break** (*Grand Ballroom Foyer)*

9:35 – 11:00 AM **SYMPOSIUM IV: Therapeutic Strategies Targeting Neuroimmune Modulation**

Session Co-Chairs: **Abraham P. Bautista, Ph.D.** – Director, Office of Extramural Activities/ (NIAAA/NIH)

Jeymohan Joseph, Ph.D. – Chief, HIV Pathogenesis, Neuropsychiatry and Treatment Branch/ Division of AIDS Research (NIMH/NIH)

9:35 – 9:55 **Lecture 1: Ru-Band Lu, M.D.** – National Cheng Kong University, Taiwan

"Genetic Validation in the Subtypes of Alcoholism."

10:00 – 10:20 **Lecture 2: Paul D. Drew, Ph.D. –** University of Arkansas for Medical Sciences, Little Rock, AR

"Role of Neuroimmune Signaling Molecules in the Neuropathology of Fetal Alcohol Spectrum Disorders"

10:25 – 10:45 **Lecture 3: Adron Harris, Ph.D. –** University of Texas at Austin, Austin, TX

"*Therapeutic Strategies Targeting Neuroimmune Modulation"*

10:50 – 11:10 **Lecture 4: Jialin C. Zheng, M.D.** – University of Nebraska Medical Center, Omaha, NE

"Neurogenesis, Brain Inflammation and its Links to the Pathogenesis and Potential Therapy of Neurodegenerative Disorders"

11:15 – 11:30 PM **PICK-UP LUNCHES FOR NIH WORKSHOP**

11:30 – 1:00 PM **NIH WORKSHOP:**

Session Co-Chairs: **David Shurtleff, Ph.D.** – Acting Deputy Director (NIDA/NIH)

Jeymohan Joseph, Ph.D. – Chief, HIV Pathogenesis, Neuropsychiatry and Treatment Branch / Division of AIDS Research (NIMH/NIH)

Abraham P. Bautista, Ph.D. – Director, Office of Extramural Activities / (NIAAA/NIH)

Participants

David Shurtleff, Ph.D. – Acting Deputy Director (NIDA/NIH)

Jag Khalsa, Ph.D. – Chief, Medical Consequences Branch, Division of Pharmacotherapies and Medical Consequences of Drug Abuse (NIDA/NIH)

Diane M. Lawrence, Ph.D. – Associate Director AIDS Research Program (NIDA/NIH)

Albert Avila, Ph.D. – Program Director, Division of Basic Neuroscience and Behavioral Research (NIDA/NIH)

Woody Lin, M.D., Ph.D. – Health Scientist Administrator, Division of Clinical Neuroscience and Behavioral Research (NIDA/NIH)

Jeymohan Joseph, Ph.D. – Chief, HIV Pathogenesis, Neuropsychiatry and Treatment Branch/ Division of AIDS Research (NIMH/NIH)

Abraham P. Bautista, Ph.D. – Director, Office of Extramural Activities (NIAAA/NIH)

Kendall Bryant, Ph.D. – Director, Alcohol and HIV/AIDS Research, OD (NIAAA/NIH)

Ranga Srinivas, Ph.D. – Chief, Extramural Project Review Branch, OEA (NIAAA/NIH)

Changhai Cui, Ph.D. – Program Director, Division of Neuroscience and Behavior (NIAAA/NIH)

Eduardo A. Montalvo, Ph.D. – Scientific Review Officer, Center for Scientific Review (NIH)

1:00 – 2:30 PM **YOUNG INVESTIGATOR'S SYMPOSIUM**

Session Co-Chairs: **Albert Avila, Ph.D.** – Program Director, Division of Basic Neuroscience and Behavioral Research (NIDA/NIH)

Sylvia M. Kiertscher, Ph.D. – David Geffen School of Medicine at UCLA**,** Los Angeles,CA

Pre-Doctoral Presentations:

1:00 – 1:10 **Crystal Bethel-Brown** – Department of Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE

"HIV-1 TAT Mediated Induction of Platelet-Derived Growth Factor in Astrocytes: Role of Early Growth Response Gene 1"

1:15 – 1:25 **Sharrón L. Manuel** – Drexel Institute for Biotechnology & Virology Research, Drexel University College of Medicine, Philadelphia, PA

"Dynamics of Dendritic Cells and T Cells in HTLV-1-Associated Neuroinflammatory Disease: Implications in Immunomodulatory Therapies and Diagnostic Tools"

1:30 – 1:40 **Ankit Shah** – Division of Pharmacology and Toxicology, University of Missouri-Kansas City, Kansas City, MO

"HIV-1 Glycoprotein 120 Induces the Pro-Inflammatory Cytokine IL-6 via the NF-Kappa-B Pathway and Methamphetamine Can Synergistically Potentiate Gp120-Mediated IL-6 Induction"

Post-Doctoral Presentations:

1:45 – 1:55 **Ming D. Duan, Ph.D.** – Department of Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE

"Cocaine Increases Platelet-Derived Growth Factor Expression in Human Brain Microvessel Endothelial Cells through Notch-1 Signaling"

2:00 – 2:10 **Lei Chen, Ph.D.** – Department of Neurosurgery, University of Kentucky, Lexington, KY

"Autophagy is Involved in the Neurovascular Toxicity of Nanoalumina"

2:15 – 2:25 **Shinsuke Nakagawa, Ph.D.** – Department of Neurosurgery, University of Kentucky, Lexington, KY

"Human Immunodeficiency Virus Type 1 (HIV-1) Infects Human Brain Pericytes In Vitro"

2:30 PM **FREE TIME – Enjoy the Beach!**

YES! – THE AFTERNOON AND EVENING ARE FREE

Saturday, April 9, 2011

7:00 – 8:15 AM **Continental Breakfast** (*Grand Ballroom Foyer)*

8:15 – 9:00 AM **PLENARY LECTURE II: Steve Nelson, M.D.** – Dean, Louisiana State University School of Medicine, New Orleans, LA

8:15 – 8:20 Introduction by **Sulie L. Chang, Ph.D.** – **Chair, SNIP Meetings Committee**

8:20 – 9:00 Lecture: *"Alcohol, Immunosuppression and HIV"*

9:05 – 11:10 AM **SYMPOSIUM V: Cocaine and HIV-1 Interplay: Molecular Mechanisms of Action and Addiction**

Session Co-Chairs: **Norman Haughey, Ph.D.** – Johns Hopkins University School of Medicine, Baltimore, MD

Michal Toborek, M.D., Ph.D. – University of Kentucky School of Medicine, Lexington, KY

9:05 – 9:35 **Symposium Lecture: Tsung-Ping Su, Ph.D**. – Chief, Cellular Pathobiology Section, Cellular Neurobiology Research Branch, NIDA/NIH

"Molecular Chaperone and Interorganelle Signaling in Diseases"

9:40 – 10:00 **Lecture 1: John Q. Wang, Ph.D.** – University of Missouri-Kansas City School of Medicine, Kansas City, MO

"Molecular Neurobiology of Drug Addiction: Role of NMDA Receptors"

10:05 – 10:20 AM **Coffee Break** (*Grand Ballroom Foyer)*

10:20 – 10:40 **Lecture 2: Gayle C. Baldwin, Ph.D.** – David Geffen School of Medicine at UCLA, Los Angeles, CA

"Defining Mechanisms of Cocaine and HIV Co-Morbidity In Vivo: The Potential and Pitfalls of Mouse/Human Chimera Models"

10:45 – 11:05 **Lecture 3: Avi Nath, M.D.** – Johns Hopkins University School of Medicine, Baltimore, MD

"Fulminant Encephalopathy in HIV-infected Cocaine Abusers"

11:10 – 12:00 Noon **"Bill" Narayan Lecture: Shilpa Buch, Ph.D.** – University of Nebraska Medical Center, Omaha, NE

11:10 – 11:20 Introduction by **David Volsky, Ph.D.** – Columbia University, New York, NY

11:20 – 12:00 *Lecture: "HIV Infection and Cocaine Abuse Go Hand in HAND"*

Noon – 1:00 PM **Lunch on your own**

1:00 – 2:50 PM **SYMPOSIUM VI: HIV-Associated Neurocognitive Disorders (HAND) and Drug Abuse**

Session Co-Chairs: **Linda Chang, M.D.** – University of Hawaii, Honolulu, HI

Mahendra Kumar, Ph.D. – Miller School of Medicine, University of Miami, Miami, FL

1:00 – 1:30 **Symposium Lecture: Bob Heaton, Ph.D.** – University of California San Diego, San Diego, CA

"Prevalence and HIV Disease Correlates of HAND in the Pre-CART and CART Eras"

1:35 – 1:55 **Lecture 1: Eileen Martin, Ph.D.** – University of Illinois, Chicago, IL

"NeuroAIDS and Substance Use Disorders"

2:00 – 2:20 **Lecture 2: Marilou Andres, Ph.D**. – University of Hawaii at Manoa, Honolulu, HI

"Effects of APOE-epsilon4 Allele on Brain Function and Structures in HIV Patients"

2:25 – 2:45 **Lecture 3: Valerie Wojna, M.D.** – University of Puerto Rico, Medical Sciences, San Juan, PR

"Challenges in the Diagnosis of HAND in a Hispanic Cohort of HIV-seropositive Women"

2:50 – 3:05 PM **Coffee Break** (*Grand Ballroom Foyer)*

3:05 – 5:20 PM **SYMPOSIUM VII: The Consequences of Substance Abuse and HIV on Stem Cell Biology**

Session Co-Chairs: **Changhai Cui, Ph.D.** – Program Director, Division of Neuroscience and Behavior (NIAAA/NIH)

Kurt Hauser, Ph.D. – Virginia Commonwealth University, School of Medicine, Richmond, VA

3:05 – 3:35 **Symposium Lecture: Pamela Knapp, Ph.D.** – Virginia Commonwealth University, School of Medicine, Richmond, VA.

"Stage Specific Effects of Opiates and HIV on the Differentiation and Function of CNS Progenitors"

3:40 – 4:00 **Lecture 1: Amelia Eisch, Ph.D.** – UT Southwestern Medical Center at Dallas, Dallas, TX

"Adult Hippocampal Neurogenesis and Opiates: Implications for Addiction"

4:05 – 4:25 **Lecture 2: Ping Zhang, Ph.D.** – *Louisiana State University Medical Center at New Orleans, New Orleans, LA*

"The Effects of Excessive Alcohol Consumption on the Development of Myelosuppression during SIV Infection"

4:30 – 4:50 **Lecture 3: Pankaj Seth, Ph.D. –** National Brain Research Centre, Manesar, India

"Neuron-Glia Crosstalk in HIV-1 Neuropathogenesis"

6:45 – 10:00 PM **EVENING BANQUET AND AWARDS CEREMONY** (*Salons E-F*)

Hosted by **Guy A. Cabral, Ph.D.** – incoming SNIP President

Special Dinner Presentation: **Timothy Yeatman, M.D.**
Moffitt Cancer Center, University of South Florida & Chief Scientific Officer, M2Gen

"The M2Gen Approach to Personalized Medicine and Drug Development"

Meeting Adjourned!

Depart for home on Sunday, April 10, 2011