



18th SNIP Scientific Conference

Hawaii Prince Hotel Waikiki, HI
April 24-28, 2012

SNIP Administrative Meetings

Tuesday, April 24, 2012

1:00 PM	Opening of Conference Office (<i>Boardroom</i>)
3:00 – 4:30 PM	SNIP Executive Committee Meeting (<i>President's Suite</i>)
5:00 – 6:30 PM	SNIP Meetings Committee Meeting (<i>Boardroom</i>)
7:00 – 9:30 PM	SNIP Council Dinner

Wednesday, April 25, 2012

(All Committee and Council meetings held in the “*Boardroom*”)

8:00 – 8:30 AM	Society Awards Committee Meeting
8:30 – 9:15 AM	Young Investigator Committee Meeting
9:15 – 10:00 AM	Communications Committee Meeting
10:00 – 10:45 AM	Membership Committee Meeting
10:45 – 11:30 AM	Finance and Audit Committee Meeting
11:30 – 12:00 PM	Elections and Nominating Committee Meeting
12:00 – 1:00 PM	Lunch – on your own
1:00 – 3:00 PM	Council Meeting and Committee Reports

Scientific Sessions

All main sessions held in the **Mauna Kea Ballroom** unless otherwise stated

Wednesday, April 25, 2012

- 3:00 PM** **Registration Opens** (*Mauna Kea Foyer and Boardroom*)
- 5:00 – 8:00 PM** **POSTER SESSION I – Young Investigator Session** (*Mauna Kea Foyer*)
Please have ALL posters mounted on poster boards before 5:00 PM.
“A” Posters (1A, 2A, etc.) to be presented from 5–6 PM
“B” Posters (1B, 2B, etc.) to be presented from 6–7 PM
“C” Posters (1C, 2C, etc.) to be presented from 7–8 PM
Please remove all posters after the session
- 5:30 – 7:30 PM** **Opening Reception during Poster Session I** (*Mauna Kea Foyer*)
Please come and enjoy some appetizers, refreshments, discussion and networking while attending the Young Investigator Poster Session!

Poster Titles listed by assigned Poster Board Numbers

(see *Journal of Neuroimmune Pharmacology* for complete abstracts)

- 1A. THE INTERACTIVE ROLE OF HISTONE DEACETYLASES AND CANNABINOID GENES IN ALCOHOL ABUSERS.** Agudelo M¹, Yndart A¹, Morrison M¹, Napuri J¹, Khatavkar P¹, Nair MPN¹; ¹Department of Immunology, Institute of Neuro-Immune Pharmacology, Herbert Wertheim College of Medicine, Florida International University, Miami, FL 33199.
- 1B. ROLE OF CYP2A6 IN NICOTINE METABOLISM MEDIATED OXIDATIVE STRESS AND HIV-1 REPLICATION.** Ande A¹, Jin M¹, McArthur C², Kumar A¹, Kumar S¹; ¹Division of Pharmacology & Toxicology, University of Missouri-Kansas City School of Pharmacy, Kansas City, MO 64108; ²Department of Oral Biology, University of Missouri-Kansas City School of Dentistry, Kansas City, MO 64108.
- 1C. L-DOPA INCREASES TYROSINE HYDROXYLASE EXPRESSION ON GABAERGIC NEURONS FOLLOWING 1-METHYL-4-PHENYL-1,2,3,6-TETRAHYDROPYRIDINE-INTOXICATION.** Anderson KM¹, Kuentsting MV¹, Szlachetka AM¹, Hutter-Saunders JLA¹, Mosley RL¹; ¹Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE 68198.
- 2A. TIMP-1 ATTENUATES STAUROSPORINE- AND HIV-1-INDUCED APOPTOSIS IN HUMAN NEURONS THROUGH MODULATION OF BCL-2 FAMILY AND MITOCHONDRIAL MEMBRANE PERMEABILITY.** Ashutosh F¹, Chao C¹, Tang L¹, Borgmann K¹, Ghorpade A¹; ¹Department of Cell Biology and Anatomy, University of North Texas Health Science Center, Fort Worth, TX 76107.
- 2B. DIFFERENTIAL EFFECTS OF HIV-1B AND HIV-1C INFECTION ON SYNAPTIC PLASTICITY GENES: IMPLICATION IN HIV-ASSOCIATED NEUROCOGNITIVE DISORDERS.** Atluri, VSR¹, Pilakka-Kanthikeel S¹, Nair MPN¹; ¹Department of Immunology, Institute of Neuro-Immune Pharmacology, Herbert Wertheim College of Medicine, Florida International University, Miami, FL 33199.
- 2C. ETHANOL INCREASES THE SURFACE EXPRESSION OF AMPA RECEPTORS BY MECHANISMS THAT INVOLVE ALTERATIONS IN THE BIOPHYSICAL PROPERTIES OF**

NEURONAL MEMBRANES. Bae M¹, Tovar-Y-Romo LB¹, Bandaru VVR¹, Haughey NJ¹;
¹Department of Neurology, Johns Hopkins Medical Institutions, Baltimore, MD 21287.

- 3A. PDGF-BB INDUCTION OF MCP-1: IMPLICATIONS FOR HAND.** Bethel-Brown C¹, Yao H¹, Yang L¹, Buch S¹; ¹Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE 68198.
- 3B. CATECHOLAMINE PRODUCTION BY VAGINAL EPITHELIAL CELLS: A NON-NEURONAL IMMUNOMODULATORY MECHANISM?** Brosnahan AJ¹, Jones BJ¹, Vulchanova-Hart L¹, Brown DR¹; ¹Department of Veterinary and Biomedical Sciences, College of Veterinary Medicine, University of Minnesota, Saint Paul, MN 55108.
- 3C. STABLE EXPRESSION OF ANTI-HIV TAT SINGLE CHAIN VARIABLE FRAGMENT INTRABODY IN HUMAN NEURONAL CELLS AS A POTENTIAL THERAPY FOR NEUROAIDS.** Byron MM¹, Lu Y¹; ¹Office of Public Health Sciences, University of Hawaii at Manoa, Honolulu, HI 96822.
- 4A. LIPOPOLYSACCHARIDE ALTERS THE INTRACELLULAR CONCENTRATION OF SAQUINAVIR IN MACROPHAGES THROUGH ALTERED EXPRESSION LEVELS OF MRP-1 AND MDR1.** Cao L¹, Silverstein PS¹, Earla R¹, Kumar A¹; ¹Division of Pharmacology and Toxicology, School of Pharmacy, University of Missouri-Kansas City, Kansas City, MO 64108.
- 4B. BUPRENORPHINE DECREASE THE INFLAMMATORY RESPONSE OF MONOCYTES IN THE CONTEXT OF NEUROAIDS.** Carvallo L¹, Lopez L¹, Che FY¹, Lim J¹, Eugenin E¹, Nieves E², Madrid-Aliste C³, Fiser A³, Weiss L¹, Angeletti RH², Berman JW¹; ¹Department of Pathology, Albert Einstein College of Medicine, Bronx, NY 10461; ²Department of Developmental and Molecular Biology, Albert Einstein College of Medicine, Bronx, NY 10461; ³Department of Systems and Computational Biology & Department of Biochemistry, Albert Einstein College of Medicine, Bronx, NY 10461.
- 4C. INTRACELLULAR CB2 RECEPTOR AND RECEPTOR TRAFFICKING IN HUMAN IMMUNE CELLS.** Castaneda JT¹, Kiertscher SM², Harui A², Roth MD²; ¹Molecular Toxicology, University of California Los Angeles, Los Angeles, CA 90095; ²Pulmonary & Critical Care Medicine, David Geffen School of Medicine at UCLA, Los Angeles, CA 90095.
- 5A. EXERCISE ALTERS THE ABUNDANCE AND COMPOSITION OF GUT MICROFLORA AND ATTENUATES PCB-INDUCED CHANGES IN GUT MICROBIOME.** Choi JJ¹, Toborek M¹; ¹Department of Biochemistry and Molecular Biology, University of Miami, Miami, FL 33136.
- 5B. TRANSFORMING GROWTH FACTOR β -1 BLOCKER RESCUES HIV-1 NEF MEDIATED SPATIAL LEARNING IMPAIRMENT IN SPRAGUE DAWLEY RATS.** Chompre G¹, Loucil R¹, Rivera-Amil V³, Porter JT², Noel Jr R¹; ¹Biochemistry Department, Ponce School of Medicine and Health Sciences, Ponce, 00732; ²Pharmacology Department, Ponce School of Medicine and Health Sciences, Ponce, 00732; ³Microbiology Department, Ponce School of Medicine and Health Sciences, Ponce, 00732.
- 5C. ASTROCYTE TRACE AMINE ASSOCIATED RECEPTOR-1-INDUCED CAMP REGULATES EXCITOTOXICITY: A MECHANISTIC COMMONALITY OF METH AND HIV-1-INDUCED NEUROTOXICITY.** Cisneros I¹, Borgmann K¹, Ghorpade A¹; ¹Cell Biology and Anatomy, University of North Texas Health Science Center, Fort Worth, TX 76107.
- 6A. HIV X4 AND X4R5 VIRUSES EXHIBIT DECREASED TOTAL ANTI-OXIDANT CAPACITY IN A PUERTO RICAN COHORT OF HIV-INFECTED WOMEN.** Colon K¹, Zenon F¹, Delgado G³, Rivera-Amill V⁴, Noel R⁴, Wojna V², Melendez LM¹. ¹Departments of Microbiology and ²Neurology, University of Puerto Rico Medical Sciences, San Juan, 00936; ³Department of Biology, University of Puerto Rico Rio Piedras, San Juan, 00936; ⁴Department of Microbiology, Ponce School of Medicine, Ponce, 00730.
- 6B. NICOTINE SUPPRESSES TLR3-MEDIATED INFLAMMATION THROUGH A CALCIUM SIGNALING MECHANISM.** Cui WY¹, Chang SL², Polanowska-Grabowska R³, Saucerman JJ³, Li MD¹; ¹Department of Psychiatry and Neurobehavioral Sciences, University of Virginia, Charlottesville, VA 22911; ²Institute of NeuroImmune Pharmacology and Department of Biology, Seton Hall University, South Orange, NJ 07079; ³Department of Biomedical Engineering, University of Virginia, Charlottesville, VA 22903.

- 6C. EFFICACY AND SAFETY TESTS OF LONG-ACTING NANOFORMULATED ANTI-RETROVIRAL DRUGS IN HIV-1 INFECTED HUMANIZED MICE.** Dash PK¹, Gorantla S¹, Roy U¹, Knibbe J¹, Balkundi S¹, McMillan J¹, Gelbard HA², Poluektova LY¹, Gendelman HE¹; ¹Department of Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE 68198; ²Center for Neural Development and Disease, University of Rochester School of Medicine and Dentistry, New York, NY 14642.
- 7A. EXCESS SOLUBLE CD40L CONTRIBUTES TO BLOOD BRAIN BARRIER PERMEABILITY IN A MOUSE MODEL OF HIV-ASSOCIATED NEUROCOGNITIVE DISORDER (HAND).** Davidson DC¹, Hirschman MP¹, Sun A¹, Kasischke KA¹, Schifitto G², Maggirwar SB¹; ¹Department of Microbiology and Immunology, University of Rochester School of Medicine and Dentistry, Rochester, NY 14642; ²Department of Neurology, University of Rochester School of Medicine and Dentistry, Rochester, NY 14642.
- 7B. THE ANTI-INFLAMMATORY $\alpha 7$ NICOTINIC ACETYLCHOLINE RECEPTOR IS UPREGULATED IN IMMUNE CELLS FROM HIV-INFECTED SUBJECTS: POTENTIAL IMPLICATIONS TO THE TREATMENT OF HIV-RELATED CHRONIC INFLAMMATION.** Delgado-Velez M¹, Baez-Pagan C¹, Gerena-Lopez Y⁶, Quesada O², Santiago-Perez L¹, Wojna V⁵, Melendez L⁴, Silva W³, Lasalde-Dominicci J¹; ¹Department of Biology, University of Puerto Rico, Río Piedras Campus, San Juan, PR 00931; ²Department of Physical Sciences, University of Puerto Rico, Río Piedras Campus, San Juan, 00931; ³Department of Physiology, University of Puerto Rico, Medical Sciences Campus, San Juan, 00936; ⁴Department of Microbiology and Medical Zoology, University of Puerto Rico, Medical Sciences Campus, San Juan, 00936; ⁵Internal Medicine, Neurology Division, University of Puerto Rico, Medical Sciences Campus, San Juan, 00936; ⁶School of Pharmaceutical Sciences, School of Pharmacy, Medical Sciences Campus, San Juan, 00936.
- 7C. CANNABINOID MODULATES HIV TAT-ENGENDERED PROTEOME PROFILE OF MICROGLIAL-LIKE CELLS.** Ferreira GA¹, Jamerson M¹, Cabral GA¹; ¹Department of Microbiology and Immunology, Virginia Commonwealth University/School of Medicine, Richmond, VA 23298-0678.
- 8A. C/EBP β REGULATES MULTIPLE IL-1 β -INDUCED HUMAN ASTROCYTE INFLAMMATORY GENES VIA A P38 DEPENDENT PATHWAY.** Fields JA¹, Ghorpade A¹; ¹Cell Biology and Anatomy, University of North Texas Health Science Center, Fort Worth, TX 76107.
- 8B. MORPHINE EXACERBATED RESPONSE TO HIV-1 TAT-DEPENDENT SYNAPTODENDRITIC INJURY IS MEDIATED BY [CA2+]I STORES AND ATP DEPLETION.** Fitting S¹, Zou S², Knapp PE², Hauser KF¹; ¹Department of Pharmacology & Toxicology, Virginia Commonwealth University, Richmond, VA 23298; ²Department of Anatomy & Neurobiology, Virginia Commonwealth University, Richmond, VA 23298.
- 8C. HIV-1 VIRAL PROTEIN R (VPR) MEDIATED INDUCTION OF PRO-INFLAMMATORY CYTOKINES IL-6, IL -8 AND RANTES IN THE ASTROCYTES VIA P38 MAPK AND NF- κ B PATHWAY.** Gangwani MR¹, Kumar A¹; ¹Department of Pharmacology and Toxicology, University of Missouri-Kansas City, Kansas City, MO 64108.
- 9A. ALCOHOL MODULATES P2X RECEPTORS IN EMBRYONIC STEM CELL DERIVED MICROGLIA: POTENTIAL ROLE IN MICROGLIA IMMUNE REGULATION.** Gofman L¹, Cenna J¹, Potula R¹; ¹Pathology and Laboratory Medicine, Temple University School of Medicine, Philadelphia, PA 19140.
- 9B. ALTERED BRAIN MICROSTRUCTURE IS ASSOCIATED WITH HIGHER CORTISOL LEVELS IN CHRONIC MARIJUANA USERS.** Gonzales RMK¹, King GR¹, Sadino J¹, Ernst T¹, Chang L¹; ¹Department of Medicine, John A. Burns School of Medicine, University of Hawaii, Honolulu, HI 96813.
- 9C. METHAMPHETAMINE INDUCES TAAR1 RECEPTOR EXPRESSION IN NAÏVE T LYMPHOCYTES: ROLE IN IMMUNOMODULATION.** Haldar B¹, Cenna J¹, Fan S¹, Potula R¹; ¹Departments of Pathology and Laboratory Medicine, Temple University School of Medicine, Philadelphia, PA 19140.
- 10A. MECHANISMS BY WHICH A CB2-SELECTIVE CANNABINOID INHIBITS T-CELL FUNCTION.** Hartzell RR², Meissler JJ¹, Adler MW¹, Eisenstein TK¹; ¹Center for Substance Abuse Research,

Temple University School of Medicine, Philadelphia, PA 19140; ²Department of Microbiology and Immunology, Temple University School of Medicine, Philadelphia, PA 19140.

- 10B. HIV TAT MEDIATES DOWN REGULATION OF β -CATENIN SIGNALING IN ASTROCYTES THROUGH ITS INTACT CYSTEINE-RICH REGION AND LOSS OF β -CATENIN LEADS TO SIGNIFICANT IMPAIRMENT OF EXCITATORY AMINO ACID TRANSPORTER 2.** Henderson LJ¹, Narasipura SD¹, Min S¹, Al-Harathi L¹; ¹Department of Immunology and Microbiology, Rush University Medical Center, Chicago, IL 60612.
- 10C. ALTERED RELATIONSHIP BETWEEN BRAIN GLUTAMATE/GLUTAMINE LEVEL AND BLOOD-OXYGENATION LEVEL DEPENDENT (BOLD) RESPONSE IN HIV-INFECTED INDIVIDUALS.** Holt JL¹, Ernst T¹, Jiang CS¹, Chang L¹; ¹Department of Medicine, John A. Burns School of Medicine, University of Hawaii at Manoa, Honolulu, HI 96813.
- 11A. MORPHINE-INDUCED CONDITIONED PLACE PREFERENCE AND REINSTATEMENT AFTER EXTINCTION IN HIV-1 TRANSGENIC RATS.** Homji NF¹, Vigorito MV¹, Liu CL¹, Chang SL¹; ¹Institute of NeuroImmune Pharmacology, Seton Hall University, South Orange, NJ 07079; ²Department of Biological Science, Seton Hall University, South Orange, NJ 07079.
- 11B. CD40 LIGAND INDUCES BRAIN PERICYTE CELL DEATH: IMPLICATIONS FOR HIV-ASSOCIATED NEUROCOGNITIVE DISORDERS (HAND).** Jackson JW¹, Davidson DC¹, Maggirwar SB¹; ¹Department of Microbiology and Immunology, University of Rochester Medical Center, Rochester, NY 14642.
- 11C. CYP2E1-MEDIATED ALCOHOL METABOLISM INDUCES EXPRESSIONS OF CYP2A6 AND CYP2E1 THROUGH OXIDATIVE STRESS-INDUCED PKC SIGNALING CASCADES IN MONOCYTES AND ASTROCYTES.** Jin M¹, Kumar A¹, Kumar S¹; ¹Division of Pharmacology and Toxicology, School of Pharmacy, University of Missouri-Kansas City, Kansas City, MO 64108.
- 12A. PSYCHOLOGICAL DISTRESS AND DEPRESSED MOOD IN HIV PATIENTS AND METHAMPHETAMINE USERS.** Katayama N¹, Munsaka SM¹, Jiang C¹, Nakama H¹, Chang L¹; ¹Department of Medicine, MRI Research Program, John A. Burns School of Medicine, University of Hawaii at Manoa, Honolulu, HI 96822.
- 12B. METHAMPHETAMINE AND HAART AFFECT NEUROTOXICITY OF HIV GP120 IN A CONCENTRATION- AND CONTEXT-DEPENDENT FASHION.** Kaul M¹, Sanchez AB¹, Kinomoto M¹, Maung R¹, Catalan I¹, Cox C¹, Sejbuk NE¹, Hoefler M¹; ¹Infectious and Inflammatory Disease Center, Sanford-Burnham Medical Research Institute, La Jolla, CA 92037.
- 12C. EFFECTS OF ANTIRETROVIRAL DRUGS ON HUMAN MACROPHAGES ACTIVATION.** King J¹, Akay C¹, Jordan-Sciutto K¹; ¹Department of Pathology School of Dental Medicine, University of Pennsylvania, Philadelphia, PA 19104.
- 13A. MOTOR SLOWING IN HIV-INFECTED METHAMPHETAMINE USERS.** Kraft-Terry SD¹, Nakama H¹, Jiang C¹, Chang L¹; ¹Division of Neurology, Department of Medicine, John A. Burns School of Medicine, University of Hawaii at Manoa, Honolulu, HI 96813.
- 13B. CYCLOOXYGENASE (COX) ENZYMES AND PROSTAGLANDIN E2 (PGE2) MODULATE WEST NILE VIRUS (WNV)-INDUCED NEUROINFLAMMATION, AND REGULATE THE PRODUCTION OF NEUROINFLAMMATORY MOLECULES INCLUDING MATRIX METALLOPROTEINASES (MMPs).** Kumar M¹, Verma S¹, Nerurkar VR¹; ¹Department of Tropical Medicine, Medical Microbiology and Pharmacology, John A. Burns School of Medicine/University of Hawaii, Honolulu, HI 96813.
- 13C. METHAMPHETAMINE REDUCES GLUTATHIONE PEROXIDASE LEVELS.** Barayuga SM¹, Raman AV¹, Rueli RH¹, Andres MA², Panee J¹, Berry MJ¹, Bellinger FP¹; ¹Cell and Molecular Biology, John A. Burns School of Medicine, University of Hawaii, Honolulu, HI 96813; ²Bekesy Laboratory of Neurobiology, Pacific Biosciences Research Center, University of Hawaii, Honolulu, HI 96822.
- 14A. HUMAN BRAIN ENDOTHELIAL CELLS SUPPRESS HIV REPLICATION IN MACROPHAGES.** Li J¹, Wang Y¹, Ye L¹, Wang X¹, Gofman L¹, Persidsky Y¹, Ho W-Z¹; ¹Department of Pathology and Laboratory Medicine, Temple University School of Medicine, Philadelphia, PA 19140.

- 14B. EFFECT OF METHAMPHETAMINE ON LPS-INDUCED PRO-INFLAMMATORY CYTOKINE PRODUCTION IS MEDIATED BY MAPK AND NF- κ B PATHWAYS.** Liu X¹, Silverstein PS¹, Kumar A¹; ¹Division of Pharmacology and Toxicology, University of Missouri-Kansas City, Kansas City, MO 64108.
- 14C. HIV-1 NEF EXPRESSION IN RAT HIPPOCAMPUS INDUCES SYSTEMIC INFLAMMATION AND CHANGES IN THE GASTROINTESTINAL TRACT.** Loucil R¹, Chompré G¹, Cruz M², Hernández S², Ramírez A², Appleyard CB², Noel RJ¹; ¹Department of Biochemistry, Ponce School of Medicine and Health Sciences, Ponce, 00732; ²Department of Physiology and Pharmacology, Ponce School of Medicine and Health Sciences, Ponce, 00732.
- 15A. CHRONIC MORPHINE INHIBITS WOUND HEALING BY MODULATING TLR4 SIGNALING.** Ma J¹, Roy S²; ¹Department of Surgery, University of Minnesota, Minneapolis, MN 55455; ²Departments of Surgery and Pharmacology, University of Minnesota, Minneapolis, MN 55455.
- 15B. MODULATION OF HUMAN NEURAL PRECURSOR CELL PROLIFERATION AND DIFFERENTIATION BY HIV-1 TRANSACTIVATING PROTEIN, TAT AND DRUGS OF ABUSE.** Malik S¹, Saha R, Seth P¹; ¹Department of Cellular & Molecular Neuroscience, National Brain Research Centre, Manesar, Gurgaon, 122050, India.
- 15C. COCAINE ACCENTUATES HIV DISEASE PROGRESSION BY DOWN REGULATING ANTI-HIV MIRNA "MIR-125B" IN CD4+ T CELLS.** Mantri C¹, Pandhare J¹, Dash C¹; ¹Laboratory of Retrovirology and Epigenetics, Center for AIDS Health Disparities Research, Vanderbilt Meharry Center For AIDS Research, Meharry Medical College, Nashville, TN 37221.
- 16A. PROTEOMIC PROFILING OF MONOCYTE DERIVED MACROPHAGES DURING NANOART TREATMENT.** Martinez-Skinner A¹, Veerubhotla R¹, Balkundi S¹, Liu H¹, Xiong H¹, McMillan J¹, Gendelman HE¹; ¹Department of Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE 68105.
- 16B. MORPHINE INCREASES INFLAMMATORY ACTIVITY IN THE INTESTINES BY INHIBITING MIR155 AND MIRNA146A.** Meng J¹, Yu H², Banerjee S¹, Roy S¹; ¹Department of Pharmacology, University of Minnesota, Minneapolis, MN 55455; ²Department of Surgery, University of Minnesota, Minneapolis, MN 55455.
- 16C. ENHANCED COCAINE SENSITIZATION IN ADULT FEMALE HIV-1 TRANSGENIC RATS.** Moran LM¹, Booze RM¹, Webb KM¹, Mactutus CF¹; ¹Department of Psychology, University of South Carolina, Columbia, SC 29208.
- 17A. MARIJUANA USE MAY INCREASE SUSCEPTIBILITY TO HIV INFECTION AND NEUROINFLAMMATION.** Munsaka SM¹, Feger U¹, Nerurkar V², Chang L¹; ¹University of Hawaii, John A. Burns School of Medicine, Department of Medicine, Honolulu, HI 96813; ²University of Hawaii, John A. Burns School of Medicine, Department of Tropical Medicine, Medical Microbiology and Pharmacology, Honolulu, HI 96813.
- 17B. MORPHINE SUPPRESSES MIR-155 AND FACILITATES HIV-1 INFECTIVITY IN MONOCYTE DERIVED DENDRITIC CELLS.** Napuri J¹, Sudheesh PK¹, Nair MPN¹; ¹Department of Immunology, Institute of NeuroImmune Pharmacology, Herbert Wertheim College of Medicine, Florida International University, Miami, FL 33199.
- 17C. CHRONIC MORPHINE TREATMENT DIFFERENTIALLY MODULATES MACROPHAGE PHAGOCYtic AND BACTERICIDAL MECHANISMS FOLLOWING TLR2 AND TLR4 ACTIVATION.** Ninkovic J¹, Roy S¹; ¹Department of Surgery, Division of Basic and Translational Research, School of Medicine, University of Minnesota, Minneapolis, MN 55455.
- 18A. ALTERED ANTIOXIDANT AND OXIDATIVE STRESS STATUS IN RAT THALAMUS CAUSED BY HIV-1 TRANSGENESIS AND METHAMPHETAMINE TREATMENT.** Pang X¹, Panee J¹, Liu X², Berry MJ¹, Chang SL², Chang L³; ¹Department of Cell and Molecular Biology, John A. Burns School of Medicine, University of Hawaii at Manoa, 651 Ilalo Street BSB 222, Honolulu HI 96813; ²Institute of NeuroImmune Pharmacology, Seton Hall University, South Orange, NJ 07079; ³Department of Medicine, John A. Burns School of Medicine, The Queen's Medical Center, Honolulu HI 96813.
- 18B. SINGLE NUCLEOTIDE POLYMORPHISMS WITHIN THE HIV-1 LTR CORRELATE WITH USE OF DRUGS OF ABUSE IN THE DREXELMED HIV/AIDS GENETIC ANALYSIS COHORT.**

Parikh N¹, Williams J¹, Wojno A¹, Pirrone V¹, Nonnemacher MR¹, Aiamkitsumrit B¹, Passic S¹, Blakey B¹, Ku J⁴, Moldover B², Feng R³, Servance L⁴, Downie D⁴, Lewis S⁴, Jacobson JM⁴, Wigdahl B¹; ¹Department of Microbiology and Immunology and Institute for Molecular Medicine and Infectious Disease, Drexel University College of Medicine, Philadelphia, PA 19102; ²Private Company, B-Tech Consulting, Ltd, Philadelphia, PA 19130; ³Department of Biostatistics and Epidemiology, Center for Clinical Epidemiology and Biostatistics, University of Pennsylvania School of Medicine, Philadelphia, PA 19104; ⁴Department of Medicine, Division of Infectious Diseases and HIV Medicine, Drexel University College of Medicine, Philadelphia, PA 19102.

- 18C. DIFFERENTIAL EFFECTS OF HIV-1 CLADE B AND CLADE C ON THE EXPRESSION OF SILENT INFORMATION REGULATOR2 HOMOLOG-1 (SIRT1).** Pichili VB¹, Nair MPN¹; ¹Department of Immunology, Institute of NeuroImmune Pharmacology, Herbert Wertheim College of Medicine, Florida International University, Miami, FL 33199.
- 19A. COCAINE DOWN REGULATES MICRORNA-146A WITH A RECIPROCAL UPREGULATION OF CXCR-4: IMPLICATIONS IN HIV IMMUNOPATHOGENESIS.** Pilakka-Kanthikeel S¹, Napuri J¹, Nair MPN¹; ¹Department of Immunology, Institute of NeuroImmune Pharmacology, Herbert Wertheim College of Medicine, Florida International University, Miami, FL 33172.
- 19B. INVOLVEMENT OF GLIAL CCR5 IN MORPHINE AND TAT-MEDIATED NEURODEGENERATION.** Podhaizer EM¹, Zhang Y², Knapp PE³, Hauser KF¹; ¹Pharmacology & Toxicology, Virginia Commonwealth University, Richmond, VA 23298; ²Medicinal Chemistry, Virginia Commonwealth University, Richmond, VA 23298; ³Anatomy & Neurobiology, Virginia Commonwealth University, Richmond, VA 23298.
- 19C. N-FORMYL-METHIONINE-LEUCINE-PHENYLALANINE (FMLP) COATED NANOART.** Puligujja P¹, Meyer J¹, McMillan J¹, Gendelman HE¹, Liu X¹; ¹Department of Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE 68128.
- 20A. CANNABINOIDS INHIBIT HIV TAT-ENHANCED ADHESION OF HUMAN U937 MACROPHAGE-LIKE CELLS TO THE EXTRACELLULAR MATRIX.** Raborn ES¹, Jamerson M¹, Marciano-Cabral F¹, Cabral GA¹; ¹Department of Microbiology and Immunology, School of Medicine/Virginia Commonwealth University, Richmond, VA 23298-0678.
- 20B. DETERMINING THE ROLE OF A UNIQUE POPULATION OF ACTIVATED CD8+ T CELLS IN THE BRAIN AFTER HIV INFECTION.** Richards MH¹, Poluektova L², Al-Harhi L¹; ¹Department of Immunology and Microbiology, Rush University Medical Center, Chicago, IL 60612; ²Department of Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE 68198.
- 20C. CYSTATIN B INHIBITS THE IFN- β RESPONSE BY PREVENTING STAT-1 TRANSLOCATION AND DECREASING LEVELS OF STAT-1PY: IMPLICATION OF HIV REPLICATION IN MACROPHAGES.** Rivera-Rivera L¹, Colón K¹, Meléndez LM¹; ¹Department of Microbiology and NeuroAIDS Program, University of Puerto Rico-Medical Sciences Campus, San Juan, 00935.
- 21A. DEPRESSION MANAGEMENT RESULTS IN INCREASED TREATMENT ADHERENCE AND IMPROVED IMMUNE SYSTEM FUNCTION IN HIV-1 INFECTED PUERTO RICANS.** Rivera-Rivera Y¹, Toro V¹, Cappas-Ortiz N¹, Rivera-Amill V¹; ¹Microbiology Department, Ponce School of Medicine & Health Sciences, Ponce, 00717.
- 21B. THE ANTIRETROVIRAL DRUGS EFAVIRENZ AND LOPINAVIR ALTER MITOCHONDRIAL MEMBRANE POTENTIAL AND CAUSE NEURONAL DAMAGE IN PRIMARY NEURONS IN VITRO.** Rivera-Vergara RM¹, Akay C¹, Jordan-Sciutto KL¹; ¹Department of Pathology, School of Dental Medicine, University of Pennsylvania, Philadelphia, PA 19104.
- 21C. IN VIVO WEST NILE VIRUS INFECTION MODULATES THE MARKERS OF BLOOD-BRAIN BARRIER INTEGRITY.** Roe K¹, Kumar M¹, Lum S¹, Orillo B¹, Nerurkar VR¹, Verma S¹; ¹Department of Tropical Medicine, Medical Microbiology and Pharmacology, University of Hawaii at Manoa, Honolulu, HI 96813.
- 22A. GLYCOGEN SYNTHASE KINASE 3 β (GSK3 β) INHIBITION PREVENTS MONOCYTE (MO) MIGRATION ACROSS BLOOD BRAIN BARRIER (BBB) VIA SUPPRESSION OF RAC1-GTPASE AND FUNCTIONAL ACTIVATION OF β -INTEGRIN.** Rom S¹, Reichenbach NL¹, Fan

S¹, Dykstra H¹, Ramirez S¹, Persidsky Y¹; ¹Department of Pathology and Laboratory Medicine, Temple University School of Medicine, Philadelphia, PA 19140.

- 22B. IMAGING DENDRITIC CELL TRAFFICKING INTO THE CENTRAL NERVOUS SYSTEM DURING STEADY-STATE AND UNDER NEUROINFLAMMATION.** Sagar D¹, Lamontagne A¹, Foss C², Khan Z¹, Pomper M², Jain P¹; ¹Department of Microbiology and Immunology, PA Biotech Center, Drexel University College of Medicine, Doylestown, PA 18902; ²Department of Radiology, Johns Hopkins University, Baltimore, MD 21231.
- 22C. AGE AND ETHANOL CONCENTRATION-DEPENDENT EFFECTS OF ACUTE BINGE DRINKING IN THE HIV-1 TRANSGENIC RAT.** Sarkar S¹, Mao X¹, Liu C¹, Chang SL¹; ¹Institute of NeuroImmune Pharmacology, Seton Hall University, South Orange, NJ 07079.
- 23A. MODULATION OF EXPERIMENTAL HERPES ENCEPHALITIS-ASSOCIATED NEUROTOXICITY THROUGH SULFORAPHANE TREATMENT.** Schachtele SJ¹, Hu S¹, Lokensgard JR¹; ¹Center for Infectious Disease & Microbiology Translational Research, University of Minnesota, Minneapolis, MN 55455.
- 23B. SIGNALING MECHANISMS INVOLVED IN METHAMPHETAMINE-MEDIATED INCREASE IN THE EXPRESSIONS OF IL-6/IL-8 IN ASTROCYTES.** Shah A¹, Kumar A¹; ¹Pharmacology & Toxicology, University of Missouri-Kansas City, Kansas City, MO 64108.
- 23C. EVALUATION OF IMMUNOMODULATORY EFFECTS OF MORPHINE IN A MURINE HIV MODEL.** Sharma U¹, Banerjee S¹, Volsky DJ², Roy S¹; ¹Department of Surgery, University of Minnesota, Minneapolis, MN 55455; Molecular Virology Division, St. Luke's-Roosevelt Hospital Center, New York, NY 10019.
- 24A. MORPHINE AND HIV-1 TAT AS COMORBIDITIES ADDITIVELY REDUCE GUT BARRIER FUNCTION.** Sindberg G¹, Meng J², Molitor T¹, Roy S³; ¹Veterinary Population Medicine, College of Veterinary Medicine, University of Minnesota, Saint Paul, MN 55108; ²Department of Pharmacology/Medical School, University of Minnesota, Minneapolis, MN 55455; ³Basic and Translational Research Division/Department of Surgery/Medical School, University of Minnesota, Minneapolis, MN 55455.
- 24B. DETECTION OF CIRCULATING PLATELET-MONOCYTE COMPLEXES IN HUMAN IMMUNODEFICIENCY VIRUS TYPE-1 INFECTED INDIVIDUALS.** Singh MV¹, Davidson DC¹, Kiebala M¹, Maggirwar SB¹; ¹Department of Microbiology and Immunology, University of Rochester Medical Center, Rochester, NY 14642.
- 24C. FUNCTIONAL PROPERTIES OF AN IN VITRO MODEL OF THE BLOOD-BRAIN BARRIER FOLLOWING CHRONIC MORPHINE EXPOSURE.** Strazza M¹, Pirrone V¹, Wigdahl B¹, Nonnemacher MR¹; ¹Department of Microbiology and Immunology and Institute for Molecular Medicine and Infectious Disease, Drexel University College of Medicine, Philadelphia, PA 19102.
- 25A. NEUROINFLAMMATION AND DEPRESSIVE SYMPTOMS IN HIV PATIENTS AND METHAMPHETAMINE USERS.** Tanizaki N¹, Munsaka S², Nerurkar V², Jiang C³, Chang L³; ¹Biomedical Science (Clinical Research), John A. Burns School of Medicine, University of Hawaii, Honolulu, HI 96813; ²Department of Tropical Medicine, Microbiology and Pharmacology, John A. Burns School of Medicine, University of Hawaii, Honolulu, HI 96813; ³Department of Medicine, John A. Burns School of Medicine, University of Hawaii, Honolulu, HI 96813.
- 25B. GENERATION OF INDUCED NEURAL PROGENITOR CELLS (INPCS) BY DIRECT REPROGRAMMING AND THEIR POTENTIAL THERAPEUTIC IMPACTS IN HIV-1 ASSOCIATED DEMENTIA (HAD).** Tian CH¹, Ambroz RJ¹, Sun LJ¹, Wang YX¹, Ma KM¹, Chen Q¹, Zhu B¹, Zheng JL¹; ¹Laboratory of Neuroimmunology and Regenerative Therapy, Department of Pharmacology & Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE 68198-5930.
- 25C. LONGITUDINAL ANALYSIS OF INTRA-HOST HIV-1 ENVELOPE SPECIES DURING THE COURSE OF HAND.** Vazquez-Santiago FJ¹, Melendez LM², Plaud-Valentin M², Noel RJ¹, Wojna V², Rivera-Amill V¹; ¹Microbiology Department, Ponce School of Medicine and Health Sciences, Ponce, 00730; ²Medical Sciences Campus, University of Puerto Rico, San Juan, 00936.
- 26A. RIG-I SENSES HIV-1 INFECTION AND MEDIATES TYPE I INTERFERON RESPONSE IN HUMAN MACROPHAGES: RELEVANT TO HIV-1-ASSOCIATED NEUROCOGNITIVE**

- DISORDERS.** Wang M², Huang Y¹, Huang J³, Zheng JL¹; ¹University of Nebraska Medical Center, Department of Pharmacology and Experimental Neuroscience, Omaha, NE 68198-5930; ²Shanghai Jiaotong University, School of Medicine, Shanghai, 200025; ³Chinese Academy of Sciences, Graduate University, Beijing, 100049.
- 26B. FOXO3A IS INVOLVED IN THE PROPER GENERATION OF INDUCED PLURIPOTENT STEM CELL (IPSC).** Wang YX¹, Tian CH¹, Zheng JL¹; ¹University of Nebraska Medical Center, Department of Pharmacology and Experimental Neuroscience, Omaha, NE 68198-5930.
- 26C. HUMAN HEPATIC STELLATE CELLS SUPPRESS HEPATITIS C VIRUS REPLICATION IN HUMAN HEPATOCYTES.** Wang YZ¹, Ye L¹, Wang X¹, Li JL¹, Song L¹, Ho WZ¹; ¹Department of Pathology and Laboratory Medicine, Temple University School of Medicine, Philadelphia, PA 19140.
- 27A. THE EFFECTS OF DOPAMINE ON LEUKOCYTE TRANSMIGRATION ACROSS THE HUMAN BLOOD BRAIN BARRIER AND ITS ROLE IN THE PATHOGENESIS OF NEUROAIDS.** Williams DW¹, Calderon TM¹, Coley JS¹, Gaskill PJ¹, Carvallo L¹, Eugenin EA¹, Berman JW¹; ¹Pathology, Albert Einstein College of Medicine, Bronx, NY 10461.
- 27B. SELENOGLYCOPROTEINS ATTENUATE TUMOR CELL ADHESION AND MIGRATION THROUGH HUMAN BRAIN ENDOTHELIUM.** Wrobel J¹, Choi JJ¹, Xiao R², Kwiatkowski S², Power R², Toborek M¹; ¹Department of Biochemistry and Molecular Biology, University of Miami School of Medicine, Miami, FL 33136; ²Nutrigenomics Research Centre, Alltech, Nicholasville, KY 40356.
- 27C. CONSTRUCTION AND CHARACTERIZATION OF LENTIVIRAL VECTOR-MEDIATED EXPRESSION OF TNFR AS A POTENTIAL PROTECTIVE MOLECULE IN HUMAN NEURONAL CELLS.** Wu C¹, Cao S¹, Maggirwar S², Dewhurst S², Lu Y¹; ¹Department of Public Health Sciences, University of Hawaii at Manoa, Honolulu, HI 96822; ²Department of Microbiology & Immunology, University of Rochester, Rochester, NY 14642.
- 28A. COCAINE-MEDIATED UPREGULATION OF GLIAL FIBRILLARY ACIDIC PROTEIN: IMPLICATION FOR ASTROCYTE ACTIVATION IN HAND.** Yang L¹, Yao H¹, Bethel-Brown C¹, Buch S¹; ¹Department of Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE 68198.
- 28B. TLR3 ACTIVATION EFFICIENCY BY LOW AND HIGH MOLECULAR WEIGHT POLY I:C.** Zhou Y¹, Wang X¹, Li JL¹, Wang YZ¹, Ye L², Guo M², Song L¹, Ho WZ¹; ¹Department of Pathology and Laboratory Medicine, Temple University School of Medicine, Philadelphia, PA 19140; ²State Key Laboratory of Virology, the Center for Animal Experiment/Animal Biosafety Level III Laboratory, Wuhan University, Wuhan, 430070.
- 28C. CORTICAL AND WHITE MATTER DEVIATIONS RELATE TO COGNITIVE DEFICITS IN VERY-LOW-BIRTH-WEIGHT (VLBW) YOUNG ADULTS.** Skranes J¹, Loehaugen GCC², Eikenes L³, Bjuland KJ¹, Haberg A⁴, Brubakk A-M¹; ¹Department of Laboratory Medicine, Children's and Women's Health, Norwegian University of Science and Technology, 7489 Trondheim; ²Department of Pediatrics, Sorlandet Hospital, Arendal, Norway; ³Department of Circulation and Medical Imaging, Norwegian University of Science and Technology, Trondheim, Norway; ⁴Department of Neuroscience, Norwegian University of Science and Technology, Trondheim, Norway.

Please remember to take down all posters immediately after the session

Thursday, April 26, 2012

All main sessions held in the **Mauna Kea Ballroom** unless otherwise stated

- 7:00 – 8:00 AM** **Continental Breakfast** (*Mauna Kea Ballroom*)
Reminder - Put up Posters for Poster Session II during the lunch break
- 8:00 – 8:15 AM** **INTRODUCTION TO THE MEETING**
Welcome from the Society on NeuroImmune Pharmacology
- 8:00 – 8:10 AM** **Guy A. Cabral, Ph.D. - SNIP President**
(Virginia Commonwealth University School of Medicine, Richmond, VA)
- 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: Ming D. Li, Ph.D.**
– University of Virginia, Charlottesville, VA
- 8:15 – 8:20 AM Introduction by **Guy A. Cabral, Ph.D.** – SNIP President
- 8:20 – 9:05 AM **Lecture:** *“Genetics and Pharmacogenetics of Addiction and Their Implications for Personalized Medicine”*
- 9:10 – 11:30 AM** **SYMPOSIUM I: HIV Latency and HIV Reservoirs in the Post-HAART Era**
Session Co-Chairs: Albert Avila, Ph.D. – National Institute on Drug Abuse, Bethesda, MD
Guy A. Cabral, Ph.D. – Virginia Commonwealth University School of Medicine, Richmond, VA
- 9:10 – 9:15 **Introductory Remark:** **Albert Avila, Ph.D.** – National Institute on Drug Abuse, Bethesda, MD
- 9:15 – 9:45 **Symposium Lecture:** **Jonathan Karn, Ph.D.** – Case Western Reserve University, School of Medicine, Cleveland, OH
“Distinct Epigenetic Control Mechanisms Regulating HIV Silencing in T-Cells and Microglial Cells”
- 9:50 – 10:10 AM** **Coffee Break** (Ballroom Foyer)
- 10:10 – 10:30 **Lecture 1:** **Shweta Hakre, Ph.D.** – University of California, San Francisco, CA
“Molecular Characterization and Regulation of HIV Latency at the Epigenetic Level”
- 10:35 – 10:55 **Lecture 2:** **David Margolis, M.D.** – University of North Carolina at Chapel Hill, NC
“HIV Latency, Persistence, and Reservoirs: Making Progress Towards an ART-less Future”
- 11:00 – 11:20 **Lecture 3:** **Patricia Molina, M.D., Ph.D.** – Louisiana State University, New Orleans, LA
“Systems Approach to Unraveling Mechanisms of Chronic Δ -9-THC Modulation of Simian Immunodeficiency Virus Infection”
- 11:25 – 11:30 **Conclusions:** **Guy A. Cabral, Ph.D.** – Virginia Commonwealth University School of Medicine, Richmond, VA

LUNCH ON YOUR OWN

– or –

11:30 – 12:50 PM

Meet the Mentors Luncheon (*Mauna Kea Ballroom*)
Hosted by the Young Investigator Committee

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

1:00 – 2:00 PM

SNIP Annual Business Meeting (*Mauna Kea Ballroom*)

All Society Members are requested to attend and all attendees welcome

2:00 – 4:00 PM

POSTER SESSION II – General Poster Session (*Ballroom Foyer*)
(see next page for list of poster titles and authors)

*Please have **ALL** posters mounted on poster boards by 2:00 PM.*

Odd numbered posters (G1, G3, etc.) to be presented from 2:00 – 3:00 PM

Even numbered posters (G2, G4, etc.) to be presented from 3:00 – 4:00 PM

2:45 – 3:15 PM

Coffee Break during the Poster Session

4:00 – 6:35 PM

SYMPOSIUM II: Alcohol and NeuroAIDS

Session Co-Chairs: **Changhai Cui, Ph.D.** – National Institute on Alcohol Abuse and Alcoholism, Bethesda, MD

Yuri Persidsky, Ph.D. – Temple University School of Medicine, Philadelphia, PA

4:00 – 4:10

Introductory Remarks: Abraham P. Bautista, Ph.D. – National Institute on Alcohol Abuse and Alcoholism, Bethesda, MD

4:10 – 4:40

Symposium Lecture: Adolf Pfefferbaum, M.D. – SRI International, Menlo Park, CA

“Neuroimaging in HIV Infection and Alcoholism Comorbidity”

4:45 – 5:05

Lecture 1: Jon Levine, M.D., Ph.D. – University of California, San Francisco, CA
“Alcohol and the Pain of AIDS”

5:10 – 5:30

Lecture 2: Norman Haughey, Ph.D. – Johns Hopkins University School of Medicine, Baltimore, MD

“Fluid Movements: Neural Membranes and Receptor Trafficking in Alcohol and HIV”

5:35 – 5:55

Lecture 3: Maria Jose Miguez, M.D., Ph.D. – Florida International University School of Integrated Science and Health, Miami, FL

“The Impact of Alcohol Use on Markers of Inflammation, and Cognitive Functioning on Antiretroviral Treated Individuals”

6:00 – 6:20

Lecture 4: James Haorah, Ph.D. – University of Nebraska Medical Center, Omaha, NE

“Oxidative Injury and Bio-fuel Imbalance as Unifying Mechanisms for Neurological Disorders in Alcohol and NeuroAIDS”

6:25 – 6:35

Conclusion: Changhai Cui, Ph.D. – National Institute on Alcohol Abuse and Alcoholism, Bethesda, MD

Yuri Persidsky, Ph.D. – Temple University School of Medicine, Philadelphia, PA

General Poster Session titles listed by assigned Poster Board Numbers

(see *Journal of Neuroimmune Pharmacology* for complete abstracts)

Please remember to take down all posters immediately after the session

- G1. BRAIN IMMUNOPHILIN IN HIV-ASSOCIATED NEUROCOGNITIVE DISORDERS.** Achim CL¹, Vinters HV², Tatro ET¹, Moore DJ¹, Soontornniyomkij B¹, Gospodarev V¹, Gouaux B¹, Masliah E¹, Grant I¹, Soontornniyomkij V¹; ¹HIV Neurobehavioral Research Program, School of Medicine, University of California San Diego, San Diego, CA 92093; ²Neuropathology and Neurology, Geffen School of Medicine, University of California Los Angeles, Los Angeles, CA 90095.
- G2. THE ROLE OF EARLY ENDOSOMAL SIGNALING IN HIV-1 INDUCED AMYLOID BETA ACCUMULATION IN BRAIN ENDOTHELIAL CELLS.** Andras IE¹, Toborek M¹; ¹Biochemistry and Molecular Biology, University of Miami School of Medicine, Miami, FL 33136.
- G3. MOLECULAR MECHANISM OF HIV-1 TAT INDUCED NEURONAL DYSFUNCTION.** Bagashev, A¹, Sawaya, BE¹; ¹Neurology Department, Temple University, Philadelphia, PA 19140.
- G4. PATHOGENS, TLRs, IL-17 SIGNALING AND THEIR CROSSTALK IN BRONCHIAL MUCOSA.** Banerjee S¹, Ninkovic J¹, Ma J¹, Meng J², Roy S¹; ¹Surgery, University of Minnesota, Minneapolis, MN 55455; ²Pharmacology, University of Minnesota, Minneapolis, MN 55455.
- G5. REGULATION OF MIR-146A BY IL-1 β IN ASTROCYTES.** Banerjee S¹, Dejos M¹, Datta PK¹; ¹Neuroscience/Center for Neurovirology, Temple University, Philadelphia, PA 19140.
- G6. MORPHINE ALTERS GLOMERULAR FILTRATION BARRIER BY COMPROMISING PODOCYTE INTEGRITY.** Lan X¹, Kumar D¹, Malhatra A¹, Singhal PC¹; ¹The Feinstein Institute for Medical Research, North Shore LIJ Health System, Great Neck, NY 11021.
- G7. PLATELET-DERIVED GROWTH FACTOR RESTORES HIV TAT AND COCAINE-MEDIATED IMPAIRMENT OF NEUROGENESIS: ROLE OF TRPC 1 CHANNELS.** Buch S¹, Yao HH¹; ¹Pharmacology, University of Nebraska Medical Center, Omaha, NE 689198.
- G8. DOPAMINE INCREASES CXCL12-MEDIATED T CELL TRANSMIGRATION ACROSS THE BLOOD BRAIN BARRIER.** Calderon TM¹, Gaskill PJ¹, Lopez L¹, Eugenin EA¹, Berman JW²; ¹Department of Pathology, Albert Einstein College of Medicine, Bronx, NY 10461; ²Departments of Pathology and Microbiology and Immunology, Albert Einstein College of Medicine, Bronx, NY 10461.
- G9. MINOCYCLINE PROTECTS MICE AGAINST WEST NILE VIRUS (WNV)-ASSOCIATED SEVERE DISEASE.** Chapagain ML¹, O'Connell M¹, Lazaga NB¹, Kumar M¹, Volper EA¹, Verma S¹, Nerurkar VR¹; ¹Department of Tropical Medicine, Medical Microbiology and Pharmacology, John A. Burns School of Medicine, Honolulu, HI 96817.
- G10. INFECTION OF CHINESE MACAQUES BY A NEUROTROPIC SIVMAC251/CNS WITHOUT AND WITH TETRAHYDROCANNABINOL (THC).** Chen Z¹, Qiang W², Cong Z², Liu L¹, Qin C², Molina P³; ¹AIDS Institute of Li Ka Shing Faculty of Medicine, The University of Hong Kong, Hong Kong, China; ²Institute of Laboratory Animal Science, Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, China; ³Department of Physiology, Louisiana State University Health Sciences Center, New Orleans, LA 70119.
- G11. DANGER SIGNAL HMGB1 MEDIATES ETHANOL-INDUCED NEUROINFLAMMATION THROUGH TLR AND RAGE RECEPTORS.** Crews FT¹, Vetreno R¹; ¹Bowles Center for Alcohol Studies, University of North Carolina, Chapel Hill, NC 27599.
- G12. EPIGENETIC MECHANISMS INVOLVED IN THE INDUCTION OF THE COMPLEMENT C3 GENE IN ASTROCYTIC CELLS IN RESPONSE TO IL-1 β .** Datta PK¹; Rappaport J¹; ¹Neuroscience, Temple University, Philadelphia, PA 19140.
- G13. ENHANCED PULMONARY VASCULAR REMODELING IN MORPHINE TREATED SIV-INFECTED MACAQUES: IMPLICATION IN HIV-ASSOCIATED PULMONARY ARTERIAL HYPERTENSION.** Dhillon N¹, Cheney P², Tawfik O³, O'Brien-Ladner A¹; ¹Department of Medicine, Division of Pulmonary and Critical Care Medicine, University of Kansas Medical Center,

Kansas City, KS 66160; ²Department of Molecular and Integrative Physiology, University of Kansas Medical Center, Kansas City, KS 66160; ³Department of Pathology, University of Kansas Medical Center, Kansas City, KS 66160.

- G14. MORPHINE TREATMENT IN THE CONTEXT OF OPPORTUNISTIC INFECTION INDUCES DIFFERENTIAL IMMUNE CELL TRAFFICKING INTO THE CNS BY MODULATING TLR AND CHEMOKINE RECEPTOR EXPRESSION.** Dutta R¹, Yu H¹, Charboneau R², Barke R², Roy S^{1,2}; ¹Department of Surgery, University of Minnesota, Minneapolis, MN 55455; ²Department of Surgery, Veterans Affairs Medical Center, Minneapolis, MN 55417.
- G15. METHAMPHETAMINE ALTERS BLOOD BRAIN BARRIER FUNCTIONS FACILITATING CENTRAL NERVOUS SYSTEM INFECTION.** Eugenin EA¹, Nosanchuk JD^{2,3}, Martinez LR^{3,4}; ¹Departments of Pathology, Albert Einstein College of Medicine, Bronx, NY 10461; ²Department of Medicine (Division of Infectious Diseases), Albert Einstein College of Medicine, Bronx, NY 10461; ³Department of Microbiology and Immunology, Albert Einstein College of Medicine, Bronx, NY 10461; ⁴Department of Biomedical Sciences, Long Island University, C. W. Post Campus, Brookville, NY 11548.
- G16. IDENTIFICATION OF INTRACELLULAR TOXIC SIGNALS REQUIRED FOR BYSTANDER KILLING THROUGH GAP JUNCTIONS FROM HIV INFECTED ASTROCYTES TO UNINFECTED ASTROCYTES.** Eugenin EA¹, Berman JW^{1,2}; ¹Departments of Pathology, Albert Einstein College of Medicine, Bronx, NY 10461; ²Department of Microbiology and Immunology, Albert Einstein College of Medicine, Bronx, NY 10461.
- G17. MOTOR FUNCTION AND NEUROMETABOLITES IN CHILDREN WITH PRENATAL METHAMPHETAMINE OR NICOTINE EXPOSURE.** Fukaya E¹, Chang L¹, Loehaugen G^{2,3}, Skranes J^{2,3}, Alicata D¹, Cunningham E¹, Jiang C¹, Ernst T¹; ¹Department of Medicine, John A. Burns School of Medicine, University of Hawaii Manoa, Honolulu, HI 96813; ²Department of Laboratory Medicine, Children's and Women's Health, Norwegian University of Science and Technology, Trondheim, Norway; ³Department of Pediatrics, Sorlandet Hospital, Arendal, Norway.
- G18. DOPAMINE MEDIATED INCREASES IN HIV REPLICATION IN MACROPHAGES ARE DUE IN PART TO INCREASED VIRAL ENTRY.** Gaskill PJ¹, Berman JW¹; ¹Department of Pathology, Einstein, Bronx, NY 105302; Department of Microbiology and Immunology, Einstein, Bronx, NY 10530.
- G19. HUMANIZED MICE TO ASSESS THE HIV-1 CLADE-SPECIFIC DIFFERENCES: APROPOS OF VIRAL VIRULENCE AND NEUROPATHOLOGY.** Gorantla S¹, Makarov E¹, Akther S¹, Wood C², Gendelman HE¹, Poluektova L¹; ¹Department of Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE 68198; ²Nebraska Center for Virology, University of Nebraska at Lincoln, Lincoln, NE 68588.
- G20. PURINERGIC RECEPTORS ARE REQUIRED FOR HIV-1 INFECTION OF PRIMARY HUMAN MACROPHAGES.** Hazleton JE¹, Berman JW^{1,2}, Eugenin EA¹; ¹Departments of Pathology, Albert Einstein College of Medicine, Bronx, NY 10461; ²Department of Microbiology and Immunology, Albert Einstein College of Medicine, Bronx, NY 10461.
- G21. TCF4 BINDS DIRECTLY TO THE HIV LTR AND ASSOCIATES WITH NUCLEAR MATRIX PROTEIN SMAR1 TO REPRESS HIV TRANSCRIPTION IN ASTROCYTES.** Henderson LJ¹, Narasipura SD¹, Adarichev V², Kashanchi F³, Al-Harhi L¹; ¹Department of Immunology and Microbiology, Rush University Medical Center, Chicago, IL 60612; ²Department of Medicine, Division of Rheumatology, and Department of Microbiology & Immunology, Albert Einstein College of Medicine, New York City, NY 10461; ³National Center for Biodefense and Infectious Diseases, George Mason University, Manassas, VA 20110.
- G22. EXECUTIVE FUNCTIONING AND CORTISOL RESPONSES IN YOUNG CHILDREN WITH PRENATAL STIMULANT EXPOSURE.** Hernandez AB¹, Cloak CC¹, Dowland S¹, Carlson S², Ernst TM¹, Chang L¹; ¹Department of Medicine, University of Hawaii, Manoa, John A. Burns School of Medicine, Honolulu, HI 96813; ²Institute of Child Development, University of Minnesota, Minneapolis, MN 55455.
- G23. PERSISTENT HUMORAL IMMUNE RESPONSES IN THE CNS LIMIT RECOVERY OF REACTIVATED MURINE CYTOMEGALOVIRUS.** Hu S¹, Mutnal MB¹, Lokensgard JR¹; ¹Center

for Infectious Diseases and Microbiology Translational Research, University of Minnesota Medical School, Minneapolis, MN 55455.

- G24. FOXO3A REGULATES INFLAMMATORY MONONUCLEAR PHAGOCYTE ACTIVATION IN HIV-ASSOCIATED NEUROCOGNITIVE DISORDERS.** Huang Y¹, Zheng J¹; ¹Department of Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE 68198 5930.
- G25. PHAGOCYTIC UPTAKE OF HIV-1-INFECTED APOPTOTIC T CELL BODIES FACILITATES HIV-1 ENTRY INTO RENAL TUBULAR CELLS.** Husain M¹, Lan X¹, Goel H¹, Singh P¹, Malhotra A¹, Singhal PC¹; ¹Department of Medicine/Nephrology, Hofstra North Shore-LIJ School of Medicine, Great Neck, NY 11021.
- G26. ANTIRETROVIRAL ACTIVITY AND BRAIN PENETRANCE OF FOLATE-COATED NANOFORMULATED ANTIRETROVIRAL DRUGS.** Kanmogne GD¹, Roy U¹, Liu Z¹, McMillan J¹, Gorantla S¹, Balkundi S¹, Smith N¹, Alnouti Y², Gautam N², Poluektova L¹, Kabanov A², Bronich T², Gendelman HE¹; ¹Department of Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE, 68198-5215; ²Department of Pharmaceutical Sciences, University of Nebraska Medical Center, Omaha, NE, 68198-6025.
- G27. MONONUCLEAR PHAGOCYTE INTERCELLULAR CROSSTALK FACILITATES TRANSMISSION OF CELL TARGETED NANOFORMULATED ANTIRETROVIRAL DRUGS TO HUMAN BRAIN ENDOTHELIAL CELLS.** Kanmogne GD¹, Liu X¹, McMillan J¹, Balkundi S¹, Zhou Y², Gendelman HE¹, Singh S¹; ¹Departments of Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE 68198-5215; ²Center for Biotechnology, University of Nebraska-Lincoln, Lincoln, NE 68588.
- G28. POTENTIATING DENDRITIC CELLS TO TARGET HYPOXIC ENVIRONMENT OF BRAIN TUMOR.** Khan ZK¹, Masih S¹, Karatas E¹, Sagar D¹, Jain P¹; ¹Department of Microbiology and Immunology, Drexel University College of Medicine, Doylestown, PA 18902.
- G29. MCP-1 EXHIBITS PROFOUND EFFECT ON THE TRAFFICKING OF DENDRITIC CELLS INTO THE CENTRAL NERVOUS SYSTEM.** Khan ZK¹, Sagar D¹, Rahman S¹, Manuel S¹, Jain P¹; ¹Department of Microbiology and Immunology, Drexel University College of Medicine, Doylestown, PA 18902.
- G30. NEUROIMMUNE INTERACTION IN THE ADRENAL GLAND OF HUMANIZED MICE: A POSSIBLE ROLE DURING HIV-1 INFECTION.** Knibbe J¹, Makarov E¹, Gutti T¹, Dash PK¹, Gorantla S¹, Poluektova L¹; ¹Pharmacology Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE 68168.
- G31. ACCELERATED CAUDATE ATROPHY IN HIGHLY ACTIVE ANTIRETROVIRAL THERAPY (HAART)-TREATED HIV SUBJECTS OVER THREE YEARS.** Kogachi S¹, Chang L¹, Sadino J¹, Jiang CS¹, Ernst TM¹; ¹Department of Medicine, John A. Burns School of Medicine, University of Hawaii at Manoa, Honolulu, HI 96813.
- G32. CENTRAL ROLE OF CYTOCHROMES P450 (CYP) IN ALCOHOL-MEDIATED OXIDATIVE STRESS AND ALCOHOL-ANTIRETROVIRAL THERAPY (ART) INTERACTIONS.** Kumar S¹, Jin M¹; ¹University of Missouri-Kansas City, School of Pharmacy, Kansas City, MO 64108.
- G33. IMPULSIVENESS AND RISKY BEHAVIOR IN HIV-INFECTED AND NICOTINE SMOKING INDIVIDUALS.** Lau EK¹, Chang L¹, Holt J¹, Jiang CS¹, Lum M¹; ¹Department of Medicine, John A. Burns School of Medicine, University of Hawaii, Honolulu, HI 96813.
- G34. FUNCTIONAL ROLE OF MICRORNAs IN HIV-ASSOCIATED NEPHROPATHY.** Malhotra A¹, Rai P¹, Singhal PC¹; ¹Feinstein Institute for Medical Research, Hofstra North Shore-LIJ School of Medicine, Great Neck, NY 11021.
- G35. HIV-1 LTR SINGLE NUCLEOTIDE POLYMORPHISMS (SNPS) CORRELATE WITH DISEASE PARAMETERS.** Nonnemacher MR¹, Pirrone V¹, Aiamkitsumrit B¹, Shah S¹, Wojno A¹, Passic S¹, Blakey B¹, Zhong W¹, Moldover B³, Feng R⁴, Randazzo C⁴, Downie D², Lewis S², Jacobson J², Wigdahl B¹; ¹Department of Microbiology and Immunology, Institute for Molecular Medicine and Infectious Disease, Drexel University College of Medicine, Philadelphia, PA 19102; ²Department of Medicine, Division of Infectious Diseases and HIV Medicine, Drexel University College of Medicine, Philadelphia, PA 19102; ³B-Tech Consulting, Ltd, N/A, Philadelphia, PA 19130;

⁴Department of Biostatistics and Epidemiology, Center for Clinical Epidemiology and Biostatistics, University of Pennsylvania School of Medicine, Philadelphia, PA 19104.

- G36. PANNEXIN1 HEMICHANNELS ARE CRITICAL FOR HIV INFECTION OF HUMAN PRIMARY CD4+ T LYMPHOCYTES.** Orellana JA¹, Williams DW², Sáez JC³, Berman JW^{2,4}; Eugenin EA².
¹Departamento de Neurología, Facultad de Medicina, Pontificia Universidad Católica de Chile, Santiago, Chile; ¹Departments of Pathology, Albert Einstein College of Medicine, Bronx, NY 10461; ³Departamento de Fisiología, Pontificia Universidad Católica de Chile, Santiago, Chile. ⁴Department of Microbiology and Immunology, Albert Einstein College of Medicine, Bronx, NY 10461.
- G37. CEREBROSPINAL FLUID MIRNA PROFILE IN HIV-ASSOCIATED NEUROLOGICAL DISORDERS.** Pacifici M¹, Delbue S⁴, Ferrante P², Jeansonne D¹, Kadri F¹, Nelson S³, Peruzzi F¹; ¹Louisiana State University Health Sciences Center, Neurological Cancer Center and Stanley Scott Cancer Center, School of Medicine, New Orleans, LA 70112; ²Department of Public Health and Microbiology-Virology, University of Milan, Milan, 20123; ³Louisiana State University Health Sciences Center and Alcohol Research Center, School of Medicine, New Orleans, LA 70112; ⁴Ettore Sansavini Health Science Foundation, University of Milan, Milan, 20123.
- G38. COCAINE INDUCED ALTERATIONS IN THE METABOLIC SIGNATURES OF CD4+ T CELLS: IMPLICATIONS IN HIV/AIDS AND DRUG ABUSE BIOLOGY.** Pandhare J¹, Mantri C¹, Dash C¹; ¹Laboratory of Retrovirology and Epigenetics, Center For AIDS Health Disparities Research, Vanderbilt-Meharry Center for AIDS Research (CFAR), Meharry Medical College School of Medicine, Nashville, TN 37221.
- G39. BLOOD BRAIN BARRIER DISRUPTION BY METHAMPHETAMINE IS REGULATED BY CAVEOLAE-DEPENDENT ENDOCYTOSIS AND ACTIN CYTOSKELETON REARRANGEMENT.** Park M¹, Lim B², Wylegala A¹, Toborek M¹; ¹Department of Biochemistry and Molecular Biology, University of Miami School of Medicine, Miami, FL 33136; ²Department of Biology, Centre College, Danville, KY 40422.
- G40. MICRORNA-124 DEACTIVATES HUMAN HIV-1-INFECTED AND CLASSICALLY ACTIVATED MACROPHAGES/MICROGLIA: IMPLICATION FOR NEUROGENESIS.** Peng H¹, Jia B¹, Zhu B¹, Chen Q¹, Wang M¹, Yunlong H¹, Zheng J; ¹Department of Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE 68105.
- G41. POLY(ADP-RIBOSE) POLYMERASE (PARP) INHIBITION IN BRAIN ENDOTHELIUM PROTECTS THE BLOOD BRAIN BARRIER (BBB) UNDER PHYSIOLOGIC AND NEURO-INFLAMMATORY CONDITIONS.** Persidsky Y¹, Rom S¹, Fan S¹, Reichenbach N¹, Dykstra H¹, Ramirez SH¹; ¹Department of Pathology and Laboratory Medicine, Temple University School of Medicine, Philadelphia, PA 19140.
- G42. ACTIVATION OF CANNABINOID RECEPTOR 2 (CB2) ATTENUATES LEUKOCYTE-ENDOTHELIAL INTERACTIONS AND BLOOD-BRAIN BARRIER (BBB) DYSFUNCTION UNDER INFLAMMATORY CONDITIONS.** Persidsky Y¹, Haskó J², Skuba A³, Fan S¹, Dykstra H¹, Reichenbach N¹, Krizbai I², Zhang M¹, Tuma R⁴, Son Y³, Ramirez SH¹; ¹Department of Pathology and Laboratory Medicine, Temple University School of Medicine, Philadelphia, PA 19140; ²Institute of Biophysics, Biological Research Center, Szeged, Hungary; ³Shriners Hospitals Pediatric Research Center and Department of Anatomy and Cell Biology, Temple University School of Medicine, Philadelphia, PA 19140; ⁴Department of Physiology, Temple University School of Medicine, Philadelphia, PA 19140.
- G43. NEUROCHEMICAL COMPOSITION CORRELATED WITH VARIANCE IN ATTENTION AND HYPERACTIVITY/IMPULSIVITY SCORES: A MULTIVOXEL SPECTROSCOPY STUDY.** Pritchett A¹, Chang L¹, Saito A¹, Keating B¹, Alicata D¹, Jiang CS¹, Cloak C¹, Lohaugen G³, Skranes J², Ernst T¹; ¹Department of Medicine, University of Hawaii John A. Burns School of Medicine, Honolulu, HI 96813; ²Department of Laboratory Medicine, Children's and Women's Health, Norwegian University of Science and Technology, Trondheim, Norway; ³Department of Pediatrics, Sorlandet Hospital, Arendal, Norway.
- G44. EFFECTS OF APOE-EPSILON4 ALLELE AND HIV ON CORTICAL BRAIN STRUCTURES.** Sadino J¹, Chang L¹, Andres MA², Ernst TM¹; ¹Department of Medicine, John A. Burns School of

Medicine, University of Hawaii at Manoa, Honolulu, HI 96826; ²Pacific Biosciences Research Center, University of Hawaii at Manoa, Honolulu, HI 96826.

- G45. A COMBINED OPIATE AGONIST AND ANTAGONIST TREATMENT REDUCES ALCOHOL INHIBITORY EFFECTS ON OPIATE RECEPTOR DIMERIZATION AND CYTOLYTIC FUNCTIONS OF NK CELLS AND REDUCES MAMMARY TUMOR GROWTH.** Sarkar DK¹, Sengupta A¹, Zhang C¹, Boyadjieva N¹; ¹Endocrine Program, Rutgers University, New Brunswick, NJ 08901.
- G46. CANNABINOID RECEPTOR EXPRESSION IN HUMAN FETAL NEURAL PRECURSOR CELLS.** Sheng WS¹, Hu S¹, Rock RB¹; ¹The Center for Infectious Diseases & Microbiology Translational Research, University of Minnesota Medical School, Minneapolis, MN 55455.
- G47. CORTICAL AND WHITE MATTER DEVIATIONS RELATE TO COGNITIVE DEFICITS IN VERY-LOW-BIRTH-WEIGHT (VLBW) YOUNG ADULTS.** – *Note: poster moved to Wed, poster #28C.*
- G48. WNT SIGNALING IN NEUROAIDS.** Tang S-J¹, Gelman B¹, Shi Y¹, Li B¹; ¹Department of Neuroscience and Cell Biology, University of Texas Medical Branch, Galveston, TX 77555.
- G49. NEUROPATHOGENIC MECHANISMS BY HIV-1 CLADE B AND C: ROLE OF LIPID RAFTS.** Thangavel S¹, Santiago EM¹, Nair MPN¹; ¹Institute of NeuroImmune Pharmacology (NIP), College of Medicine, Florida International University, Miami, FL 33199.
- G50. EFFECTS OF COCAINE ON HIV INFECTION OF QUIESCENT T CELLS.** Vatakis DN¹, Kim SG¹, Zhuo J¹, Baldwin GC¹, Zack JA¹; ¹Department of Medicine, Division of Hematology and Oncology, David Geffen School of Medicine at UCLA, Los Angeles, CA 90095.
- G51. ALCOHOL INHIBITS INTRACELLULAR HIV RESTRICTION FACTORS AND ENHANCES HIV INFECTION OF CORD BLOOD MONOCYTE-DERIVED MACROPHAGES (CBMDM).** Wang X¹, Mastrogiannis DS², Dai M¹, Ye L¹, Li JL¹, Wang YZ¹, Song L¹, Sakarcian S¹, Ho WZ¹; ¹Department of Pathology and Laboratory Medicine, Temple University School of Medicine, Philadelphia, PA 19140; ²Department of Obstetrics, Gynecology and Reproductive Sciences, Temple University School of Medicine, Philadelphia, PA 19140.
- G52. POTENTIATION OF NMDA RECEPTOR-MEDIATED EPSCS BY D-SERINE: IMPLICATIONS FOR HIV-1-ASSOCIATED NEUROTOXICITY.** Xia JX¹, Xiong H¹; ¹Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE 68198.
- G53. NONMUSCLE MYOSIN LIGHT-CHAIN KINASE MEDIATES MICROGLIAL MIGRATION INDUCED BY HIV TAT: INVOLVEMENT OF B1 INTEGRINS.** Yao HH¹, Buch S¹; ¹Department of Pharmacology, University of Nebraska Medical Center, Omaha, NE 68198.
- G54. DIFFERENTIAL REGULATION OF IL-33 BY HIV-1 B AND C CLADE INFECTION IN HUMAN ASTROCYTES (HA): ROLE IN NEUROPATHOGENESIS.** Yndart A¹, Agudelo M¹, Nair MPN¹; ¹Department of Immunology, Institute of Neuro-Immune Pharmacology, Herbert Wertheim College of Medicine, Florida International University, Miami, FL 33199.
- G55. ADENOSINE DEAMINASES AS DRUG CANDIDATES FOR THE TREATMENT OF HIV INFECTION.** Zavialov A¹, Lu Y¹; ¹Department of Public Health, John A. Burns School of Medicine, University of Hawaii, Honolulu, HI 96822.

Please remember to take down all posters immediately after the session

Friday, April 27, 2012

- 7:00 – 8:00 AM** **Continental Breakfast**
- 8:00 – 10:10 AM** **SYMPOSIUM III: Rodent Models of the Interaction of Substances of Abuse and HIV-associated Neurocognitive Disorders**
Session Co-Chairs: **Abraham P. Bautista, Ph.D.** – National Institute on Alcohol Abuse and Alcoholism, Bethesda, MD
Pooja Jain, Ph.D. – Drexel University College of Medicine, Philadelphia, PA
- 8:00 – 8:30 **Symposium Lecture: Rosemarie Booze, Ph.D.** – University of South Carolina, Columbia, SC
“Translational Rodent Models of HIV-Associated Neurocognitive Disorders and Psychostimulants”
- 8:35 – 8:55 **Lecture 1: Michael Vigorito, Ph.D.** – Seton Hall University, South Orange, NJ
“Experience- and Substance-Induced Behavioral Plasticity in the HIV-1 Transgenic Rat”
- 9:00 – 9:20 **Lecture 2: David Volsky, Ph.D.** – Columbia University, New York, NY
“Molecular Markers of Neurocognitive Deficits in People with HAND and Mice Infected with Chimeric HIV”
- 9:25 – 9:45 **Lecture 3: Johnny He, Ph.D.** – University of North Texas, Fort Worth, TX
“HIV-1 Tat and HIV/NeuroAIDS: From Mechanistic Studies to Biomarker Discovery”
- 9:50 – 10:10 **Lecture 4: Jianuo Liu, M.D., Ph.D.** – University of Nebraska Medical Center, Omaha, NE
“Co-morbid Effects of HIV-1gp120 and Meth on Neuronal Physiology and Animal Behavior: Role of Voltage-gated K Channels”
- 10:15 – 10:30 AM** **Coffee Break** (*Ballroom Foyer*)
- 10:30 – 12:40 AM** **SYMPOSIUM IV: Neuroimmunity and Neurodegenerative Diseases**
Session Co-Chairs: **Phil Peterson, M.D.** – University of Minnesota School of Medicine, Saint Paul, MN
Michal Toborek, M.D., Ph.D. – University of Miami School of Medicine, Miami, FL
- 10:30 – 11:00 **Symposium Lecture: Howard Gendelman, M.D.** – University of Nebraska Medical Center, Omaha, NE
“Cell-Based Targeted Brain Delivery of Therapeutic Nanoparticles”
- 11:05 – 11:25 **Lecture 1: Xiaoxia Li, Ph.D.** – Lerner Research Institute, Cleveland, OH
“IL-17-Induced ACT1-Mediated Signaling is Critical for Cuprizone-Induced Demyelination.”
- 11:30 – 11:50 **Lecture 2: R. Lee Mosley, Ph.D.** – University of Nebraska Medical Center, Omaha, NE
“T Cell-Mediated Immunity in Neurodegeneration and Parkinson’s Disease”

11:55 – 12:15 **Lecture 3: Kalipada Pahan, Ph.D.** –Rush University Medical Center,
Chicago, IL

“Switching Glia from Neuroinflammatory to Neurotrophic in the Nigrostriatum of Hemiparkinsonian Monkeys”

12:20 – 12:40 **Lecture 4: Jenny S. Henkel, Ph.D.** – Methodist Neurological Institute,
Houston, TX

“T Cells Manage the Game in Lou Gehrig’s Disease”

12:45 – 1:00 PM **PICK-UP LUNCHES FOR NIH WORKSHOP** (*Ballroom Foyer*)

1:00 – 2:00 PM **NIH WORKSHOP:**

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

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)

Invited Participants

Jag Khalsa, Ph.D., Chief, Medical Consequences Branch, Division of Pharmacotherapies and Medical Consequences of Drug Abuse (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, Div. of Clinical Neuroscience and Behavioral Research (NIDA/NIH)

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

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

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

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

Eduardo A. Montalvo, Ph.D., Scientific Review Officer, AIDS Initial Review Group, Center for Scientific Review (NIH)

2:00 – 3:30 PM **YOUNG INVESTIGATOR’S SYMPOSIUM**

Session Co-Chairs: **Sylvia M. Kiertscher, Ph.D.** – David Geffen School of Medicine at UCLA, Los Angeles, CA

Ranga Srinivas, Ph.D. – National Institute on Alcohol Abuse and Alcoholism, Bethesda, MD

Pre-Doctoral Presentations:

2:00 – 2:10 **Donna C. Davidson** – Dept. of Microbiology and Immunology, University of Rochester School of Medicine and Dentistry, Rochester, NY

“Excess Soluble CD40L Contributes to Blood Brain Barrier Permeability in a Mouse Model of HIV-Associated Neurocognitive Disorder (HAND)”

2:15 – 2:25 **Jerel A. Fields** – Dept. of Cell Biology and Anatomy, University of North Texas Health Science Center, Forth Worth, TX
“C/EBP β Regulates Multiple IL-1 β -induced Human Astrocyte Inflammatory Genes via a P38 Dependent Pathway”

2:30 – 2:40 **Divya Sagar** – Dept. of Microbiology and Immunology, Drexel University College of Medicine, Philadelphia, PA
“Imaging Dendritic Cell Trafficking into the Central Nervous System during Steady-State and under Neuroinflammation”

Post-Doctoral Presentations:

2:45 – 2:55 **Sylvia Fitting, Ph.D.** – Dept. of Pharmacology and Toxicology, Virginia Commonwealth University, Richmond, VA
“Morphine Exacerbated Responses to HIV-1 TAT-Dependent Synaptodendritic Injury is Mediated by [CA2+]i Stores and ATP Depletion”

3:00 – 3:10 **Jana Ninkovic, Ph.D.** – Dept. of Surgery, Division of Basic and Translational Research, University of Minnesota School of Medicine, Minneapolis, MN
“Chronic Morphine Treatment Differentially Modulates Macrophage Phagocytic and Bactericidal Mechanisms Following TLR2 and TLR4 Activation”

3:15 – 3:25 **Prasanta K. Dash, Ph.D.** – Dept. of Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE
“Efficacy and Safety Tests of Long-Acting Nanoformulated Anti-Retroviral Drugs in HIV-1 Infected Humanized Mice”

**3:30 PM FREE TIME –
YES! – THE AFTERNOON AND EVENING ARE FREE**

7:30 – 9:30 PM Journal of Neuroimmune Pharmacology Editorial Board Meeting

- 12:50 – 1:00 **Lecture 1: Bruce Shiramizu, M.D.** – JABSOM, University of Hawaii, Honolulu, HI
“Exploiting Unique Monocyte Phenotypes for Treatment Strategies for HIV-Associated Neurocognitive Disorders”
- 1:00 – 1:10 **Lecture 2: Marilou Andres, Ph.D.** – JABSOM, University of Hawaii, Honolulu, HI
“Methamphetamine Inhibits L-type Calcium Channels in SH-SY5Y Cells”
- 1:10 – 1:20 **Lecture 3: Christine Cloak, Ph.D.** – JABSOM, University of Hawaii, Honolulu, HI
“What is happening in the Brains of Adolescent Marijuana Users?”
- 1:20 – 1:30 **Lecture 4: Yuanan Lu, Ph.D.** – JABSOM, University of Hawaii, Honolulu, HI
“Cell Mediated Novel Gene Therapy for NeuroAIDS”
- 1:30 – 1:40 **Lecture 5: George King, M.D.** – JABSOM, University of Hawaii, Honolulu, HI

“Cortisol and Behavioral Regulation in Chronic Active Cannabis Users”
- 1:40 – 1:50 **Lecture 6: Kazuma Nakagawa, M.D.** – JABSOM, University of Hawaii & the
Queen’s Medical Center, Honolulu, HI

“Racial Disparities Among Native Hawaiians and Other Pacific Islanders With Intracerebral Hemorrhage: Effect of Methamphetamine and Untreated Hypertension”
- 1:50 – 2:00 **Lecture 7: Vivek Nerurkar, Ph.D.** – JABSOM, University of Hawaii, Honolulu, HI

“Immunobiology of WNV-Induced Neuroinflammation”
- 2:00 – 2:15 **Discussion**
- 2:15 – 2:35 PM Coffee Break** (*Ballroom Foyer*)
- 2:35 – 4:40 PM SYMPOSIUM VII: Spice and Bath Salts – An Emerging Health Risk in the United States**

Session Co-Chairs: **Zhiwei Chen, Ph.D., DVM** – The University of Hong Kong
LKS Faculty of Medicine, Pokfulan, Hong Kong
Alexandros Makriyannis, Ph.D. – Northeastern
University, Boston, MA
- 2:35 – 2:40 **Introductory remark: Alexandros Makriyannis, Ph.D.** – Northeastern
University, Boston, MA
- 2:40 – 3:10 **Lecture 1: Aron Lichtman, Ph.D.** – Virginia Commonwealth University School
of Medicine, Richmond, VA

“Synthetic Marijuana: Pharmacology and Toxicology”
- 3:15 – 3:35 **Lecture 2: Anu Mahadevan, Ph.D.** – Organix, Inc, Boston, MA

“Synthetic Cannabinoids as Designer Drugs: A Structural Overview “
- 3:40 – 4:00 **Lecture 3: Brian Thomas, Ph.D.** – Research Triangle International, Research
Triangle Park, NC

“The Surveillance and Detection of Designer Drugs: A New Challenge in Substance Abuse and Forensic Sciences”
- 4:05 – 4:25 **Lecture 4: Mahmoud ElSohly, Ph.D.** – University of Mississippi, Oxford, MS

“Methylhexylamine, a Stimulant Additive in Some Dietary Supplements: Is It Really a Component of Pelargonium oil?”

4:30 – 4:40

Summary, Discussion and Future Considerations

Alexandros Makriyannis, Ph.D. – Northeastern University, Boston, MA

6:45 – 10:00 PM

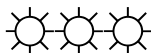
EVENING BANQUET AND AWARDS CEREMONY (Mauna Kea Ballroom)

Hosted by **Sabita Roy, Ph.D.** – incoming SNIP President

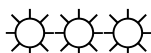
Special Dinner Presentation: **Bryan Yamamoto, Ph.D.**, University of Toledo
School of Medicine, Toledo, OH

“Breaking the Ice: Beyond Biogenic Amines”

Meeting Adjourned!



Sunday, April 29, 2012 – Departure Day



**Join us for the
19th SNIP Scientific Conference
currently planned for:
San Juan, Puerto Rico
April, 2013**

(Details to be announced)