



## 15<sup>th</sup> SNIP Conference - April 21-24, 2009

The Pearl Plaza Hotel - Wuhan, P.R. China

### SNIP Administrative Meetings

#### Tuesday, April 21, 2009

- 07:00 – 08:00 AM Hotel Breakfast, 2<sup>nd</sup> Floor (on your own)  
08:00 – 08:10 AM Council/Committee members meet 1<sup>st</sup> Floor Lobby for transport to Wuhan CDC  
08:30 – 09:15 AM Brief Tour Wuhan CDC  
09:15 – 10:00 AM Meetings & International Meetings Committees (Wuhan CDC 5F Boardroom)  
10:00 – 11:00 AM Individual Committee Meetings with working Tea Break (10:00-10:15)  
(Awards, Finance, Communications, Membership - Wuhan CDC 5F Boardroom)  
11:00 – 12:20 PM Council Meeting and Committee Reports  
12:20 – 1:20 PM Lunch and return transportation to Pearl Plaza Hotel  
01:30 – 3:00 PM Council Meeting cont... (as needed) (Hotel Conference Room, 6<sup>th</sup> Floor)

### Conference Scientific Program

#### Tuesday, April 21, 2009

- 2:00 PM CONFERENCE REGISTRATION OPENS** (Pearl Ballroom Foyer)
- 4:00 – 4:30 PM WELCOMING CEREMONIES** (The Pearl Ballroom)
- 4:00 – 4:10 **Welcome from the Society on NeuroImmune Pharmacology**
- Michael D. Roth, M.D., SNIP President**  
(David Geffen School of Medicine at UCLA)
- Acknowledgement of NIH Staff and Officials
  - Acknowledgement of Key Sponsors, Committees and Chairs
- 4:10 – 4:30 **Welcome to Wuhan** (The Pearl Ballroom)
- Introductions by the SNIP International Steering Committee Co-Chairs:**
- Wen-Zhe Ho, M.D., M.P.H.**      **Sulie L. Chang, Ph.D.**  
(University of Pennsylvania)      (Seton Hall University)
- Welcome to Wuhan by City and University Officials  
(to be announced)
  - Introduction to the  
Chinese International Steering & Organizing Committees

**4:30 – 6:00 PM**      **OPENING SESSION**      (The Pearl Ballroom)

**THE PREVENTION AND TREATMENT OF DRUG ABUSE AND HIV IN CHINA**

Session Co-Chairs:

**Sulie L. Chang, Ph.D.\***  
(Seton Hall University)

**Wen-Zhe Ho, M.D., M.P.H.**  
(University of Pennsylvania)

Presentations:

- 4:30 – 4:45      **“Prevention and Treatment of Drug Abuse and HIV in Wuhan”**  
**Dunjin Zhou, M.D.**  
(Director of Wuhan Centers for Disease Prevention & Control, P.R. China)
- 4:45 – 5:05      **“Drug Abuse and Treatment in China”**  
**Wei Hao, Ph.D.**  
(2<sup>nd</sup> Xiangya Hospital, Central South University, P.R. China)
- 5:10 – 5:30      **“Drug Treatment as HIV Prevention in China: Scientific Findings and Public Health Implications”**  
**David Metzger, M.D.**  
(University of Pennsylvania)
- 5:35 – 5:55      **“Inhibitory Long-Term Depression in the Hippocampus is Adapted to Opioid Addiction with a Combinatorial Plasticity Mechanism”**  
**Lin Xu, Ph.D.**  
(Kunming Institute of Zoology, Kunming, Yunnan, P.R. China)

*\*All symposia co-chairs listed in alphabetical order*

**6:00 – 9:00 PM**

***Gala Opening Reception***

With buffet hors d'oeuvres and drinks hosted by SNIP for your dining and refreshment while attending the Poster Session

(Pearl Ballroom Foyer)

**6:00 – 9:00 PM**

**POSTER SESSION I**

(Video Conference Room)

**YOUNG INVESTIGATORS POSTER SESSION –**

**PROGRAM NOTE:** Presenting authors for “odd-numbered” posters (T-1, T-3, T-5, etc.) should be at their posters from 6:00-7:30 PM to present their work and presenting authors for “even-numbered” posters (T-2, T-4, T-6, etc.) should be at their posters from 7:30-9:00 PM to present their work.

**Please have ALL posters mounted on the poster boards BEFORE 6:00 PM.**

Posters to be presented in this session include:

**T-1 THE ROLE OF CANNABINOID RECEPTORS IN THE MODULATION OF TOLL-LIKE RECEPTOR (TLR) 4 EXPRESSION AND ANTIBODY CLASS SWITCHING IN MOUSE B LYMPHOCYTES.** M Agudelo<sup>1</sup>, C Newton<sup>1</sup>, T Sherwood<sup>1</sup>, TW Klein<sup>1</sup>; <sup>1</sup>Molecular Medicine, School of Biomedical Sciences,, College of Medicine, University of South Florida, Tampa, FL, 33612 USA.

**T-2 CAMP ELEVATION ENHANCES SUSCEPTIBILITY OF BONE MARROW PROGENITOR CELLS TO HIV-1 AND UPREGULATES HIV-1 LONG TERMINAL REPEAT-DIRECTED TRANSCRIPTION VIA THE PKA/CREB SIGNALING PATHWAY.** A Banerjee<sup>1</sup>, A Ferrucci<sup>1</sup>, V Pirrone<sup>1</sup>, B Wigdahl<sup>1</sup>, MR Nonnemacher<sup>1</sup>; <sup>1</sup>Department of Microbiology and Immunology, Drexel Univ. College of Medicine, Philadelphia, PA, 19102 USA.

- T-3 COCAINE POTENTIATES GP120-MEDIATED TOXICITY IN NEURONS.** C Bethel-Brown<sup>1</sup>, H Yao<sup>1</sup>, JE Allen<sup>1</sup>, X Zhu<sup>1</sup>, S Callen<sup>1</sup>, SJ Buch<sup>1</sup>; <sup>1</sup>Department of Molecular and Integrative Physiology, Univ of Kansas Medical Center, Kansas City, KS, 66160 USA.
- T-4 DIVERSITY IN INFECTION AND NEUROTOXICITY OF HIV-1 CLADES B AND C IN HUMAN MACROPHAGES: RELATION TO HIV NEUROPATHOGENESIS.** A Constantino<sup>1</sup>, Y Huang<sup>1</sup>, A Lopez<sup>1</sup>, H Zhang<sup>2</sup>, C Wood<sup>2</sup>, J Zheng<sup>1</sup>; <sup>1</sup>Pharmacology and Experimental Neuroscience, Univ. of Nebraska Medical Center, Omaha, NE, 68198 USA; <sup>2</sup>Nebraska Center for Virology, Univ. of Nebraska Lincoln, Lincoln, NE, USA 68583.
- T-5 NEUROPROTECTIVE ROLES FOR APELIN IN HIV-ASSOCIATED EXCITOTOXIC INJURY.** DR Cook<sup>3</sup>, LA Odonnell<sup>2</sup>, LH Tanyu<sup>3</sup>, DR Lynch<sup>3</sup>, KL Jordan-Sciutto<sup>3</sup>, DL Kolson<sup>3</sup>; <sup>1</sup>Department of Neurology, School of Medicine, University of Pennsylvania, Philadelphia, PA, 19104-6140 USA; <sup>2</sup>Basic Science Division, Fox Chase Cancer Center, Philadelphia, PA, USA 19111; <sup>3</sup>Department of Pathology, School of Dental Medicine, University of Pennsylvania, Philadelphia, PA, 19104-6140 USA.
- T-6 TRANSCRIPTIONAL FACTOR FOXO3A IN ASTROGLIOSIS.** M Cui<sup>1</sup>, H Peng<sup>1</sup>, C Tian<sup>1</sup>, Y Huang<sup>1</sup>, J Zheng<sup>1</sup>; <sup>1</sup>Pharmacol. and Experimental Neuroscience, Univ. of Nebraska Med. Center, Omaha, NE, 68198 USA.
- T-7 GHRELIN PROMOTE T CELL PROLIFERATION THROUGH MTOR PATHWAY.** T Cui<sup>1</sup>, D Taub<sup>1</sup>; <sup>1</sup>Laboratory of Immunology, NIA, NIH, Baltimore, MD, 21224 USA.
- T-8 GLYCOGEN SYNTHASE KINASE 3 BETA (GSK3B) AS A POTENTIAL THERAPEUTIC TARGET IN NEUROAIDS.** DC Davidson<sup>1</sup>, SB Maggirwar<sup>1</sup>; <sup>1</sup>Department of Microbiology and Immunology, University of Rochester, Rochester, NY, 14642 USA.
- T-9 POTENTIAL ROLE OF MICRORNA-124 IN HUMAN NEUROGENESIS UNDER NORMAL AND INFLAMMATORY CONDITIONS.** TM Eidem<sup>1</sup>, H Peng<sup>1</sup>, C Tian<sup>1</sup>, JC Zheng<sup>1</sup>; <sup>1</sup>Lab of Neurotoxicology, Department of Pharmacology & Experimental Neuroscience and <sup>2</sup>Department of Pathology and Microbiology, University of Nebraska Medical Center, Omaha, NE, 68198 USA.
- T-10 ANTIRETROVIRAL TREATMENT DAMPENS CSF IP-10 ELEVATION AND ITS ASSOCIATED BRAIN RESPONSE IN HIV PATIENTS.** U Feger<sup>1</sup>, M Ricardo-Dukelow<sup>1</sup>, T Ernst<sup>1</sup>, E Nerurkar<sup>1</sup>, E Volper<sup>1</sup>, S Buchthal<sup>1</sup>, H Nakama<sup>1</sup>, L Chang<sup>1</sup>; <sup>1</sup>Univ. of Hawaii at Manoa, Burns School of Medicine, Honolulu, HI, 96813.
- T-11 CCAAT ELEMENT MEDIATED REGULATION OF ASTROCYTE-TIMP-1 EXPRESSION IN CHRONIC NEUROINFLAMMATION.** JA Fields<sup>1</sup>, K Borgmann<sup>1</sup>, A Ghorpade<sup>1</sup>; <sup>1</sup>Cell Biology and Genetics, University of North Texas Health Science Center, Fort Worth, TX, 76107 USA.
- T-12 INHIBITORY LONG-TERM DEPRESSION IN THE HIPPOCAMPUS IS ADAPTED TO OPIOID ADDICTION WITH A COMBINATORIAL PLASTICITY MECHANISM.** HL Han<sup>1</sup>, L Xu<sup>1</sup>; <sup>1</sup>Key Lab of AMHD, CAS, Kunming Institute of Zoology, Kunming, 650223 China.
- T-13 A HUMANIZED HUPBL-NOD/SCID/IL2R-GAMMA-NULL MODEL FOR EVALUATING THE IMPACT OF DRUG ABUSE ON HUMAN IMMUNE FUNCTION.** A Harui<sup>1</sup>, SM Kiertscher<sup>1</sup>, MD Roth<sup>1</sup>; <sup>1</sup>Pulmonary & Critical Care Medicine, David Geffen School of Medicine at UCLA, Los Angeles, CA, 90095-1690 USA.
- T-14 HIV-1 VPR-MEDIATED CELL DEATH AND PROTEOME ALTERATION.** F He<sup>1</sup>, Y Zeng<sup>1</sup>, X Wu<sup>1</sup>, Y Ji<sup>1</sup>, T Andrus<sup>2</sup>, T Wang<sup>1</sup>; <sup>1</sup>Institute of Tissue Transplantation and Immunology, Jinan University, Guangzhou, 510630, <sup>2</sup>Department of Laboratory Medicine, University of Washington School of Medicine, Seattle, WA, 98109 USA.
- T-15 MODULATION OF MONONUCLEAR PHAGOCYTE BIOLOGY BY HUMAN IMMUNODEFICIENCY VIRAL INFECTION AND CD4+ T CELL SUBSET CONTACT.** XY Huang<sup>1</sup>, YY Zeng<sup>2</sup>, HE Gendelman<sup>1</sup>; <sup>1</sup>Dept of Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE, 68198-5800 USA; <sup>2</sup>Institute for Tissue Transplantation & Immunology, Jinan University, Guangzhou, 510632 China.
- T-16 BEHAVIORAL EVALUATIONS IN THE 1-METHYL-4-PHENYL-1,2,3,6-TETRAHYDROPYRIDINE MOUSE MODEL OF PARKINSON'S DISEASE.** JA Hutter<sup>1</sup>, AD Reynolds<sup>1</sup>, HE Gendelman<sup>1</sup>, RL Mosley<sup>1</sup>; <sup>1</sup>Pharmacology and Experimental Neuroscience, Univ. of Nebraska Medical Center, Omaha, NE, 68198 USA.

- T-17 MECHANISM OF T CELL ACTIVATION IN CNS- IMMUNE RECONSTITUTION INFLAMMATORY SYNDROME WITH HIV INFECTION.** T Johnson<sup>2</sup>, P Calabresi<sup>2</sup>, A Nath<sup>2</sup>; <sup>1</sup>Department of Pathology and <sup>2</sup>Department of Neurology, Johns Hopkins School of Medicine, Baltimore, MD, 21287 USA.
- T-18 NF-KB FAMILY MEMBER RELB INHIBITS HIV-1 TAT-INDUCED SYNTHESIS OF TNF-ALPHA.** MM Kiebala<sup>1</sup>, SB Maggirwar<sup>1</sup>; <sup>1</sup>Dept of Microbiology and Immunology, Univ. of Rochester, Rochester, NY, 14642 US.
- T-19 IN VIVO MORPHINE TREATMENT SUPPRESSES TUMOR ANGIOGENESIS BY INHIBITING MONOCYTE MIGRATION AND RECRUITMENT TO THE TUMOR SITE.** L Koodie<sup>1</sup>, R Charboneau<sup>1</sup>, L Liu<sup>1</sup>, S Roy<sup>1</sup>; <sup>1</sup>Department of Pharmacology, Surgery, BTR, University of Minnesota, Minneapolis, MN, 55455 USA.
- T-20 ASTROCYTES ARE REGULATORS OF HIV-1 INFECTED MACROPHAGE INFLAMMATORY ACTIVITIES.** SD Kraft-Terry<sup>1</sup>, T Wang<sup>1</sup>, P Ciborowski<sup>1</sup>, HE Gendelman<sup>1</sup>; <sup>1</sup>College of Medicine, University of Nebraska Medical Center, Omaha, NE, 68198-5800 USA.
- T-21 SYNERGISTIC POTENTIATION OF NEUROPATHOGENESIS BY MORPHINE AND TAT IN A PNEUMOCOCCAL PNEUMONIAE MODEL.** A Krishnan<sup>1</sup>, J Wang<sup>1</sup>, R Charboneau<sup>2</sup>, B Roderick<sup>2</sup>, S Roy<sup>1</sup>; <sup>1</sup>Department of Surgery, University of Minnesota, Minneapolis, MN, 55455 USA; <sup>2</sup>Veterans Affairs Medical Center, Veterans Affairs Medical Center, Minneapolis, MN, 55417 USA.
- T-22 STUDY ON THE RELATIONSHIP BETWEEN BLOOD PRESSURE, LIPID AND FASTING PLASMA GLUCOSE VALUE IN VARIETY WAIST CIRCUMFERENCE IN WUHAN ADULTS.** CF Li<sup>1</sup>, DJ Zhou<sup>1</sup>, XH Liu<sup>1</sup>, ZY Zhu<sup>1</sup>, ZF Zhang<sup>1</sup>, J Xia<sup>1</sup>, J Gong<sup>1</sup>; <sup>1</sup>Wuhan institute of Chronic Disease Prevention, Wuhan Centers for Disease Prevention & Control, Wuhan, 430015 China.
- T-23 INTERFERON LAMBDA INHIBITS HERPES SIMPLEX VIRUS TYPE 1 REPLICATION IN HUMAN NEURONAL CELLS.** JL Li<sup>1</sup>, L Zhou<sup>2</sup>, X Wang<sup>1</sup>, L Ye<sup>1</sup>, WZ Ho<sup>1</sup>; <sup>1</sup>Division of Allergy & Immunology, The Children's Hospital of Philadelphia, Philadelphia, PA, 19104 USA; <sup>2</sup>Division of Histology and Embryology, Dept of Anatomy, Tongji Medical College, Huazhong Univ. of Science and Technology, Wuhan, 430030 China.
- T-24 EXAMINING THE FITNESS OF HIV-1 QUASISPECIES CONTAINING SPECIFIC CORE/ENHANCER REGION BINDING SITE POLYMORPHISMS.** L Li<sup>1</sup>, MR Nonnemacher<sup>1</sup>, K Flaig<sup>1</sup>, BP Irish<sup>1</sup>, E Kilareski<sup>1</sup>, B Wigdahl<sup>1</sup>; <sup>1</sup>Dept of Microbiology and Immunology, Drexel Univ. College of Medicine, Philadelphia, PA, 19102 US.
- T-25 UP-REGULATION IN SPINAL CORD AND LOCUS CERULEUS, BUT DOWN-REGULATION IN DORSAL ROOT GANGLIA FOR KAPPA-OPIOID RECEPTOR OF MORPHINE TOLERANT RATS.** XY Li<sup>1</sup>, L Sun<sup>1</sup>, J He<sup>1</sup>, ZL Chen<sup>1</sup>, F Zhou<sup>1</sup>, XY Liu<sup>1</sup>, RS Liu<sup>1</sup>; <sup>1</sup>Department of Anesthesiology, Cancer Hospital, Peking Union Medical College, Beijing, 100021 China.
- T-26 BOVINE ISG15: A BALANCING MOLECULAR IN BIV/BHV SUPER-INFECTION.** C Liu<sup>1</sup>, X Li<sup>1</sup>, YQ Geng<sup>1</sup>; <sup>1</sup>Nankai University, College of Life Sciences, Tianjin, 300071 China.
- T-27 HEPATITIS C VIRUS-INDUCED L-FICOLIN TRIGGERS LECTIN COMPLEMENT PATHWAY-MEDIATED CYTOLYTIC ACTIVITY AND INFLAMMATORY RESPONSES.** J Liu<sup>1</sup>, XL Zhang<sup>1</sup>; <sup>1</sup>The State Key Laboratory of Virology and Immunology, Wuhan University School of Medicine, Wuhan, 430071 China.
- T-28 AN ESSENTIAL ROLE FOR DELTA FOSB IN THE CHRONIC DRUG ADDICTION.** F Liu<sup>1</sup>, X Liu<sup>1</sup>; <sup>1</sup>Medicine College, Xi'an Jiaotong University, Xi'an, 710061 China.
- T-29 MORPHINE MODULATES DENDRITIC CELL IL-23 PRODUCTION THROUGH TLR2-ATF2 AND TLR4-IRF3 SIGNALING.** J Ma<sup>1</sup>, R Barke<sup>2</sup>, R Charboneau<sup>2</sup>, S Roy<sup>1</sup>, J Wang<sup>1</sup>; <sup>1</sup>Department of Surgery, University of Minnesota, Minneapolis, MN, USA 55455; <sup>2</sup>Department of Surgery, Veteran Affairs Medical Center, Minneapolis, MN, 55417 USA.
- T-30 REDUCED REGULATORY T-CELL INFILTRATION IN RESPONSE TO MCMV BRAIN INFECTION OF IL-10-DEFICIENT MICE.** MB Mutnal<sup>1</sup>, MC Cheeran<sup>1</sup>, L Morgan<sup>1</sup>, S Hu<sup>1</sup>, JR Lokensgard<sup>1</sup>; <sup>1</sup>Center for Infectious Diseases and Microbiology Translational Research, Univ of Minnesota, Twin Cities, MN, 55455 USA.

- T-31 DIFFERENTIAL MODULATION BY MORPHINE OF FC GAMMA RECEPTOR MEDIATED PHAGOCYTOSIS FOLLOWING TLR-2 AND TLR-4 ACTIVATION.** J Ninkovic<sup>1</sup>, A Krishnan<sup>1</sup>, S Roy<sup>1</sup>;  
<sup>1</sup>Department of Pharmacology, University of Minnesota, Minneapolis, MN, 55343 USA.
- T-32 MONOCYTE CARRIAGE AND RELEASE OF NANOFORMULATED INDINAVIR, RITONAVIR AND EFAVIRENZ: IMPROVED PHARMACOKINETICS AND DRUG DELIVERY.** A Nowacek<sup>1</sup>, R Miller<sup>2</sup>, J Kipp<sup>2</sup>, J Mcmillan<sup>1</sup>, H Dou<sup>1</sup>, S Graham<sup>2</sup>, M Chaubal<sup>2</sup>, J Werling<sup>2</sup>, B Rabinow<sup>2</sup>, H Gendelman<sup>1</sup>;  
<sup>1</sup>Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE, 68198-5880 USA; <sup>2</sup>Global R&D, BPT, Medication Delivery, Baxter Healthcare, Round Lake, IL, 60073 USA.
- T-33 MU-OPIOID SPECIFIC AGONIST DAMGO REDUCES HIV-1 REPLICATION IN HUMAN TF-1 BONE MARROW PROGENITOR CELLS.** N Parikh<sup>1</sup>, A Banerjee<sup>1</sup>, A Alexaki<sup>1</sup>, B Wigdahl<sup>1</sup>, MR Nonnemacher<sup>1</sup>;  
<sup>1</sup>Department of Microbiology and Immunology, Drexel Univ. College of Medicine, Philadelphia, PA, 19102 USA.
- T-34 METHAMPHETAMINE AND HUMAN IMMUNODEFICIENCY VIRUS TYPE-1 NEF-MEDIATED INCREASE IN MONOCYTE CHEMOATTRACTANT PROTEIN-1 (MCP-1) EXPRESSION IN ASTROCYTES: IMPLICATION IN NEUROAIDS.** K Patel<sup>1</sup>, A Kumar<sup>1</sup>;  
<sup>1</sup>Pharmacology & Toxicology, University of Missouri - Kansas City, Kansas City, MO, 64108 USA.
- T-35 CEREBROSPINAL FLUID PROTEOMICS REVEALS POTENTIAL PATHOGENIC CHANGES IN THE BRAINS OF SIV-INFECTED MONKEYS.** G Pendyala<sup>1</sup>, SA Trauger<sup>2</sup>, E Kalisiak<sup>2</sup>, RJ Ellis<sup>3</sup>, G Siuzdak<sup>2</sup>, HS Fox<sup>1</sup>;  
<sup>1</sup>Dept. of Pharmacology & Experimental Neuroscience, Univ of Nebraska Medical Center, Omaha, NE, 68198 USA; <sup>2</sup>Department of Molecular Biology & Center for Mass Spectrometry, Scripps Research Institute, San Diego, CA, 92037 USA; <sup>3</sup>Dept of Neurosciences & HNRC, Univ of California at San Diego, San Diego, CA, 92103 USA.
- T-36 AGE-DEPENDENT DIFFERENTIAL EXPRESSION OF HIV-1 VIRAL PROTEINS IN THE HIV-1 TRANSGENIC RAT.** JS Peng<sup>1</sup>, XQ Liu<sup>1</sup>, DJ Zhou<sup>3</sup>, XW Wu<sup>2</sup>, SL Chang<sup>1</sup>;  
<sup>1</sup>Inst of NeuroImmune Pharmacology, Seton Hall Univ, South Orange, NJ, 07079 USA; <sup>2</sup>Tongji Medical College, HuaZhong Univ of Science & Technology, Wuhan, 430030 China; <sup>3</sup>Wuhan Centers for Disease Control and Prevention, Wuhan, 430022 China.
- T-37 L-FICOLIN AND HIV.** XL Peng<sup>1</sup>, J Liu<sup>1</sup>, XL Zhang<sup>1</sup>;  
<sup>1</sup>State Key Laboratory of Virology, Immunology Dept, Wuhan University School of Medicine, Wuhan, 430071 China.
- T-38 A NITRATED ALPHA-SYNUCLEIN VACCINE STRATEGY FOR PARKINSON'S DISEASE.** AD Reynolds<sup>1</sup>, DK Stone<sup>1</sup>, RL Mosley<sup>1</sup>, HE Gendelman<sup>1</sup>;  
<sup>1</sup>Dept of Pharmacol and Experimental Neuroscience, Univ of Nebraska Med Center, Omaha, NE, 68198 USA.
- T-39 MORPHINE INHIBITS NEURONAL SURVIVAL SIGNALING STIMULATED BY CXCR4 BY INCREASING BRAIN LEVELS OF FERRITIN HEAVY CHAIN.** R. Sengupta<sup>1</sup>, S. Burbassi<sup>1</sup>, O. Meucci<sup>1</sup>;  
<sup>1</sup>Department of Pharmacology and Physiology, Drexel Univ College of Medicine, Philadelphia, PA, 19102 USA.
- T-40 SEQUENTIAL INFORMATION PROCESSING BY THE BASOLATERAL AMYGDALA AND THE NUCLEUS ACCUMBENS IS NECESSARY FOR HEROIN-INDUCED CONDITIONED IMMUNOMODULATION.** JL Szczytkowski<sup>2</sup>, DT Lysle<sup>2</sup>;  
<sup>1</sup>Neurobiology Curriculum and <sup>2</sup>Psychology Department, University of North Carolina at Chapel Hill, Chapel Hill, NC, 27599 USA.
- T-41 DIFFERENTIAL EXPRESSION OF MU, DELTA AND KAPPA OPIOID RECEPTORS IN THREE PHENOTYPES OF HUMAN NEUROBLASTOMA CELLS.** JD Walton<sup>1</sup>, J Peng<sup>1</sup>, RA Ross<sup>2</sup>, SL Chang<sup>1</sup>;  
<sup>1</sup>Institute of NeuroImmune Pharmacology, Seton Hall University, South Orange, NJ, 07079 USA, <sup>2</sup>Department of Biological Sciences, Fordham University, Bronx, NY, 10458 USA.
- T-42 ROLE OF THE PPAR $\gamma$  PATHWAY IN MORPHINE INDUCED MACROPHAGE APOPTOSIS AND AUTOPHAGY.** J Wan<sup>1</sup>, S Roy<sup>1</sup>;  
<sup>1</sup> Department of surgery, University of Minnesota, Minneapolis, MN, 55455 USA.
- T-43 TRANSCRIPTIONAL REGULATION OF HUMAN MEMORY T CELLS DIFFERENTIATION.** Q Wan<sup>1</sup>, L Kozhaya<sup>1</sup>, D Unutmaz<sup>1</sup>;  
<sup>1</sup>Department of Microbiology and Pathology, School of Medicine, New York University, New York, NY, 10016 USA.
- T-44 COMPLICATED PATTERN OF HIV-1 EVOLUTION AMONG INJECTION DRUG USERS AND**

**SEXUALLY ACQUIRED CASES IN THE DEHONG PREFECTURE OF YUNNAN PROVINCE, CHINA.** HB Wang<sup>1</sup>, L Liu<sup>1</sup>, MH Jia<sup>2</sup>, YH Ma<sup>2</sup>, ZW Chen<sup>1</sup>; <sup>1</sup>AIDS Institute, The University of Hong Kong, Hong Kong, China; <sup>2</sup>Yunnan Center for Disease Control and Prevention, Yunnan Center for Disease Control and Prevention, Kunming, 650022 China.

**T-45 AN ORALLY DELIVERED ATTENUATED SALMONELLA VACCINE EXPRESSING EAST6-AG85B ELICITS FULL IMMUNE RESPONSE AND PROTECTION AGAINST MYCOBACTERIUM TUBERCULOSIS.** QL Wang<sup>1</sup>, XL Zhang<sup>1</sup>;

<sup>1</sup>The State Key Laboratory of Virology, Immunology, Wuhan University School of Medicine, Wuhan, 430071 China.

**T-46 THE REMAINED SERA NEUTRALIZING ACTIVITY AGAINST VACCINIA VIRUS TIAN TAN IN CHINESE PEOPLE ARE OBVIOUSLY REDUCED BY REMOVAL OF THE VIRAL H3L GENE.** YU Wenbo<sup>1</sup>;

<sup>1</sup>AIDS Inst, Univ of Hong Kong, Hong Kong, China.

**T-47 HIV-1 TAT CO-OPERATES WITH IFN- $\gamma$  AND TNF- $\alpha$  TO INDUCE CXCL10 EXPRESSION IN HUMAN ASTROCYTES THROUGH AN OXIDATIVE STRESS MEDIATED PATHWAY.** R. Williams<sup>1</sup>, S. Buch<sup>1</sup>;

<sup>1</sup>Department of Molecular & Integrative Physiology, University of Kansas Medical Center, Kansas City, KS, 66160 USA.

**T-48 SDF-1 INCREASES HUMAN NEURAL PROGENITOR CELL PROLIFERATION THROUGH PI3K/AKT/FOXO3A SIGNALING PATHWAY.** YW Wu<sup>1</sup>, HP Peng<sup>1</sup>, MC Cui<sup>1</sup>, NW Whitney<sup>1</sup>, JZ Zheng<sup>1</sup>;

<sup>1</sup>Department of Pharmacology & Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE, 68198 USA.

**T-49 FUNCTIONALLY IMPAIRED CD56+ T CELLS IN HEROIN USERS INFECTED WITH HEPATITIS C VIRUS.** L Ye<sup>1</sup>, W Hou<sup>1</sup>, X Wang<sup>1</sup>, DS Metzger<sup>2</sup>, E Riedel<sup>1</sup>, L Song<sup>2</sup>, L Zhou<sup>1</sup>, Y Zhou<sup>3</sup>, DJ Zhou<sup>3</sup>, WZ Ho<sup>1</sup>;

<sup>1</sup>Division of Allergy & Immunology, The Children's Hospital of Philadelphia, and <sup>2</sup>Department of Psychiatry, University of Pennsylvania School of Medicine, Philadelphia, PA, 19104 USA; <sup>3</sup>Division of Virology, Wuhan Centers for Disease Control and Prevention, Wuhan, 430022 China.

**T-50 EFFECTS OF STRESS ON DECISION-MAKING PERFORMANCE IN HEROIN ADDICTS.** X Zhang<sup>1</sup>, J Shi<sup>1</sup>, L Lu<sup>1</sup>;

<sup>1</sup>National Institute on Drug Dependence, Peking University, Beijing, 100191 China.

**T-51 THE IMPACT OF ALCOHOL WITHDRAWAL ON SNK/SPAR MRNA EXPRESSION OF RAT HIPPOCAMPUS, PREFRONTAL CORTEX AND CEREBELLUM.** YU Zhang<sup>1</sup>, PH Piao<sup>1</sup>, CK Sun<sup>1</sup>;

<sup>1</sup>Institute for Brain Disorders, Dalian Medical University, Dalian, 116044 China.

**T-52 SELECTIVELY ENHANCED RETRIEVAL OF POSITIVE OR HEROIN-RELATED WORDS AFTER PSYCHOSOCIAL STRESS IN ABSTINENT HEROIN ADDICTS.** LY Zhao<sup>1</sup>, J Shi<sup>1</sup>, XL Zhang<sup>1</sup>, L Lu<sup>1</sup>;

<sup>1</sup>National Institute on Drug Dependence, Peking University, Beijing, 100191 China.

**T-53 ACTIVATION OF TLR-3 INDUCES IFN-LAMBDA EXPRESSION IN HUMAN NEURONAL CELLS.** L Zhou<sup>1,2</sup>, X Wang<sup>2</sup>, H Li<sup>1</sup>, Y Zhou<sup>1</sup>, S Hu<sup>3</sup>, L Ye<sup>2</sup>, W Hou<sup>2</sup>, WZ Ho<sup>2</sup>;

<sup>1</sup>Division of Histology and Embryology, Department of Anatomy, Tongji Medical College, Huazhong University of Science and Technology, Wuhan, 430030 China; <sup>2</sup>Division of Allergy & Immunology, The Children's Hospital of Philadelphia, Philadelphia, PA, 19104 USA; <sup>3</sup>Center for Infectious Diseases and Microbiology Translational Research, University of Minnesota Medical School, Minnesota, MN, 55455 USA.

**T-54 INCREASED CDK5 ACTIVITY IN THE HIPPOCAMPUS REGULATES THE DEPRESSIVE-LIKE BEHAVIORS IN CHRONIC MILD STRESS.** WL Zhu<sup>1</sup>, L Lu<sup>1</sup>;

<sup>1</sup>Peking University, National Institute on Drug Dependence, Beijing, 100191 China.

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**Remove all posters at the end of the session**

## Wednesday, April 22, 2009

- 7:00 – 8:00 AM**      **Continental Breakfast for Hotel Guests**      (Café Balcony)
- 8:00 – 8:10 AM**      **INTRODUCTION TO THE MEETING**      (The Pearl Ballroom)  
**Guy A. Cabral, Ph.D., Chairman, SNIP Meetings Committee**  
(Virginia Commonwealth University School of Medicine)  
- Conference Overview & Business
- 8:10 – 8:55 AM**      **PLENARY LECTURE I:**      (The Pearl Ballroom)  
8:10 – 8:15      Introduction by Michael D. Roth, M.D., SNIP President  
8:15 – 8:55      **“State of the Art of Neural Stem Cell Biology: The Yin and Yang of Neural Stem Cells”**  
**Walter C. Low, Ph.D.,**  
Professor, Department of Neurosurgery  
(University of Minnesota)
- 9:00 – 11:50 AM**      **SYMPOSIUM #1**      (The Pearl Ballroom)  
**GLOBAL PERSPECTIVES ON VIRAL & OPPORTUNISTIC INFECTIONS OF THE CNS**  
*Session Co-Chairs:*  
**Guy A. Cabral, Ph.D.**  
(Virginia Commonwealth University School of Medicine)  
**Jian-Guo Wu, Ph.D.**  
(Wuhan University, Wuhan, Hubei, P.R. China)  
*Symposium Lecture:*  
9:00 – 9:25      **“Global Challenges of Emerging CNS Infections”**  
**Phillip K. Peterson, M.D.** (Director, Division of Infectious Diseases & International Medicine, University of Minnesota Medical School)  
*Symposium Talks:*  
9:30 – 9:45      **“Human Endogenous Retrovirus W family Envelope Glycoprotein P Plays a Role in Schizophrenia Development by Activating Brain-derived N Neurotrophic Factor and Dopamine D3 Receptor through Calcium-Dependent ERK Signaling Pathway”**  
**Jian-Guo Wu, Ph.D.**  
(Wuhan University, Wuhan, Hubei, P.R. China)  
9:50 – 10:05      **“Functional Analysis of Human Cytomegalovirus, an Opportunistic Pathogen Causing Common Infections in the CNS”**  
**Feng-Yong Liu, Ph.D.**  
(University of California Berkeley)
- 10:10 – 10:30      **Coffee/Tea Break**      (Pearl Ballroom Foyer)
- 10:30 – 10:45      **“Neuroimmune Responses to Experimental Herpes Simplex Virus Brain Infection”**  
**James Lokensgard, Ph.D.**  
(University of Minnesota)



- W-6 VECTOR-BASED GENERATION OF MONOCLONAL ANTIBODIES AGAINST THE CB2 RECEPTOR IN CB2-KO MICE.** A Harui<sup>1</sup>, N Buckley<sup>2</sup>, SM Kiertscher<sup>1</sup>, MD Roth<sup>1</sup>; <sup>1</sup>Department of Medicine, David Geffen School of Medicine at UCLA, Los Angeles, CA, 90095-1690 USA, <sup>2</sup>Biological Sciences Department, California State Polytechnic University, Pomona, CA, 91768 USA.
- W-7 INTERFERON LAMBDA INHIBITS HIV-1 INFECTION OF MACROPHAGES.** W Hou<sup>1</sup>, X Wang<sup>2</sup>, L Ye<sup>2</sup>, ZQ Yang<sup>1</sup>, WZ Ho<sup>2</sup>; <sup>1</sup>State Key Laboratory of Virology, School of Medicine, Wuhan University, Wuhan, 430071 China; <sup>2</sup>Division of Allergy and Immunology, The Children's Hospital of Philadelphia, Philadelphia, PA, 19104 USA.
- W-8 WIN55,212-2 INHIBITS RANTES/CCL5-INDUCED HUMAN MICROGLIA INTRACELLULAR CA2+ LEVELS AND MIGRATION.** S Hu<sup>1</sup>, K Cushman<sup>2</sup>, WS Sheng<sup>1</sup>, SA Thayer<sup>2</sup>, PK Peterson<sup>1</sup>, RB Rock<sup>1</sup>; <sup>1</sup>Center for Infectious Diseases and Microbiology Translational Research and <sup>2</sup>Department of Pharmacology, University of Minnesota Medical School, Minneapolis, MN, 55455 USA.
- W-9 MIR-142-3P RESTRICTS CAMP PRODUCTION IN CD4+CD25- T CELLS AND CD4+CD25+ TREG CELLS BY TARGETING ADENYLYL CYCLASE 9 MRNA.** BO Huang<sup>1</sup>; <sup>1</sup>Department of Biochemistry and Molecular Biology, Tongji Medical College, Wuhan, 430030 China.
- W-10 TOXICOLOGY PROFILES AND BLOOD-BRAIN BARRIER PENETRANCE OF MONOCYTE-MACROPHAGE CARRYING NANOFORMULATED ANTIRETROVIRAL DRUGS.** GD Kanmogne<sup>1</sup>, D. Barnes<sup>1</sup>, A. Nowacek<sup>1</sup>, B. Rabinow<sup>2</sup>, H. Gendelman<sup>1</sup>, S. Singh<sup>1</sup>; <sup>1</sup>Department of Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE, 68198-5215 USA; <sup>2</sup>Global Research and Development, Baxter Healthcare, Chicago, IL, 60015-4625 USA.
- W-11 MUTANT HTT CAUSES ENDOPLASMIC RETICULUM STRESS THROUGH OXIDATIVE STRESS AND DISTURBANCE OF INTRACELLULAR CALCIUM.** H Li<sup>1</sup>, Y Jiang<sup>1</sup>, H Tan<sup>1</sup>; <sup>1</sup>Division of Histology & Embryology, Department of Anatomy, Tongji Medical College, Huazhong University of Science & Technology, Wuhan, 430030 China.
- W-12 PREVALENCE OF DRUG RESISTANT GENOTYPE AMONG THERAPY-NAÏVE PATIENTS OF HIV-1 INFECTION IN WUHAN, CHINA.** T Li<sup>1</sup>; <sup>1</sup>Division of Virology, Wuhan Centers for Disease Prevention & Control, Wuhan, 430022 China; <sup>2</sup>Division of Virology and Immunology, National Center for AIDS/STD Control and Prevention, Beijing, 100050 China.
- W-13 NOVEL MECHANISM OF NMDA RECEPTOR ACTIVATION BY HIV-1 TAT PROTEIN.** W Li<sup>1</sup>, Y Huang<sup>1</sup>, R Reid<sup>1</sup>, J Steiner<sup>1</sup>, T Malpica-Ilanos<sup>1</sup>, T Darden<sup>2</sup>, S Shankar<sup>3</sup>, A Mahadevan<sup>3</sup>, P Satishchandra<sup>3</sup>, A Nath<sup>1</sup>; <sup>1</sup>Department of Neurology, Johns Hopkins University School of Medicine, Baltimore, MD, 21287 USA; <sup>2</sup>Laboratory of Structural Biology, National Institute of Environmental Health Science, Research Triangle Park, NC, 27709 USA; <sup>3</sup>Departments of Neuropathology and Neurology, National Institute of Mental Health and Neuroscience, Bangalore, 560029 India.
- W-14 COMPLICATED PATTERN OF HIV-1 EVOLUTION AMONG DRUG ABUSERS AND SEXUALLY ACQUIRED CASES IN DEHONG, YUNAN PROVINCE, CHINA.** L Liu<sup>1</sup>, H Wang<sup>1</sup>, L Lu<sup>2</sup>, M Jia<sup>2</sup>, Y Ma<sup>2</sup>, Y Zhang<sup>2</sup>, Z Chen<sup>1</sup>; <sup>1</sup>AIDS Institute, Li Ka Shing Faculty of Medicine, University of Hong Kong, Hong Kong, China; <sup>2</sup>Yunnan Center, Center for Disease Control and Prevention, Kunming, 650022 China.
- W-15 MOLECULAR EPIDEMIOLOGY OF HUMAN ASTROVIRUS INFECTIONS IN WUHAN, CHINA.** MQ Liu<sup>1</sup>, YH Wang<sup>1</sup>, JS Peng<sup>1</sup>, L Tang<sup>1</sup>, Y Zhou<sup>1</sup>, X Zhou<sup>1</sup>, R Zhao<sup>2</sup>, N Kobayashi<sup>3</sup>; <sup>1</sup>Department of Virology, Wuhan Centers for Disease Prevention & Control, Wuhan, 430015 China; <sup>2</sup>Department of Pathogen Biology, Huazhong University of Science and Technology, Wuhan, 430030 China; <sup>3</sup>Department of Hygiene, Sapporo Medical University School of Medicine, Sapporo, 060-8556 Japan.
- W-16 DEVELOPMENT OF MULTIFUNCTIONAL MAGNETIC NANOCARRIER FOR DRUG TARGETING TO BRAIN.** MP Nair<sup>1</sup>, NH Gandhi<sup>1</sup>, ZM Saiyed<sup>1</sup>; <sup>1</sup>Department of Immunology, College of Medicine, Florida International University, Miami, FL, 33199 USA.
- W-17 USE OF COCAINE AND CANNABINOID RESULTS IN ALTERED PATTERNS OF HIV-1 LTR TRANSCRIPTION FACTOR BINDING SITE CONSERVATION DURING HIV DISEASE.** MR Nonnemacher<sup>1</sup>, E Kilareski<sup>1</sup>, B Aiamkitsumrit<sup>1</sup>, N Parikh<sup>1</sup>, BP Irish<sup>1</sup>, S Lewis<sup>2</sup>, J Jacobson<sup>2</sup>, B Wigdahl<sup>1</sup>; <sup>1</sup>Department of Microbiology and Immunology, and <sup>2</sup>Division of Infectious Disease and HIV Medicine, Drexel University College of Medicine, Philadelphia, PA, 19102 USA.

- W-18 HIV-1-INFECTED AND/OR IMMUNE-ACTIVATED MACROPHAGES AFFECT HUMAN FETAL CORTICAL NEURAL PROGENITOR CELL DIFFERENTIATION THROUGH THE STAT3 PATHWAY.** H Peng<sup>1</sup>, Y Wu<sup>1</sup>, J Zheng<sup>1</sup>; <sup>1</sup>Department of Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE, 68198-5880 USA.
- W-19 GENETIC VARIATION OF HEPATITIS C VIRUS IN A COHORT OF INJECTION HEROIN USERS IN WUHAN, CHINA.** JS Peng<sup>1</sup>, X Wang<sup>3</sup>, MQ Liu<sup>1</sup>, DJ Zhou<sup>1</sup>, J Gong<sup>1</sup>, HM Xu<sup>2</sup>, JP Chen<sup>2</sup>, HH Zhu<sup>1</sup>, W Zhou<sup>1</sup>, WZ Ho<sup>3</sup>; <sup>1</sup>Wuhan Centers for Disease Control and Prevention, Wuhan, 430022 China; <sup>2</sup>Wuhan Psychiatric Health Center, Wuhan, 430030 China; <sup>3</sup>Division of Allergy & Immunology, Pediatrics, University of Pennsylvania School of Medicine, Philadelphia, PA, 19104 USA.
- W-20 MICROARRAY ANALYSIS OF CELLULAR AND MOLECULAR BASIS OF METHAMPHETAMINE-INDUCED T CELL DYSFUNCTION.** R Potula<sup>1</sup>, MR Brodie<sup>3</sup>, F Yu<sup>3</sup>, B Morsey<sup>3</sup>, H Dykstra<sup>1</sup>, Y Persidsky<sup>1</sup>; <sup>1</sup>Pathology and Laboratory Medicine, Temple University School of Medicine, Philadelphia, PA, 19140 USA; <sup>2</sup>Pharmacology and Experimental Neuroscience and <sup>3</sup>Department of Biostatistics, University of Nebraska Medical Center, Omaha, 68198 NE.
- W-21 HEPCIDIN AND IRON-ASSOCIATED NEURODEGENERATIVE DISORDERS.** ZM Qian<sup>1</sup>, Y Ke<sup>2</sup>; <sup>1</sup>Laboratory of Brain Iron Metabolism, Hong Kong Polytechnic University, Hong Kong, China; <sup>2</sup>Department of Physiology, The Chinese University of Hong Kong Medical School, Hong Kong, China.
- W-22 WIN55,212-2 PROTECTS HUMAN DOPAMINERGIC NEURONS AGAINST GP120-INDUCED DAMAGE.** RB Rock<sup>1</sup>, S Hu<sup>1</sup>, W Sheng<sup>1</sup>, PK Peterson<sup>1</sup>; <sup>1</sup>Center for Infectious Diseases and Microbiology Translational Research, University of Minnesota, Minneapolis, MN, 55455 USA.
- W-23 IMPACT OF MARIJUANA SMOKING ON THE IMMUNE RESPONSE TO HEPATITIS B VACCINATION.** MD Roth<sup>1</sup>, DP Tashkin<sup>1</sup>, G Ibrahim<sup>1</sup>, SM Kiertscher<sup>1</sup>; <sup>1</sup>Division of Pulmonary & Critical Care, David Geffen School of Medicine at UCLA, Los Angeles, CA, 90095-1690 US.
- W-24 HEME OXYGENASE-1 REGULATION OF INFLAMMATORY MEDIATORS FROM IL-1-BETA-ACTIVATED HUMAN ASTROCYTES.** W Sheng<sup>1</sup>, S Hu<sup>1</sup>, PK Peterson<sup>1</sup>, RB Rock<sup>1</sup>; <sup>1</sup>CIDMTR, Department of Medicine, University of Minnesota Medical School, Minneapolis, MN, 55455 USA.
- W-25 EFFECTS OF STRESS ON DECISION-MAKING PERFORMANCE IN HEROIN ADDICTS.** J Shi<sup>1</sup>, XL Zhang<sup>1</sup>, L Lu<sup>1</sup>; <sup>1</sup>National Institute on Drug Dependence, Peking University, Beijing, 100191 China.
- W-26 CAVEOLAE-ASSOCIATED SIGNALING MECHANISMS IN HIV-1-INDUCED DISRUPTION OF THE BLOOD BRAIN BARRIER.** M Toborek<sup>1</sup>; <sup>1</sup>Department of Neurosurgery, University of Kentucky Medical Center, Lexington, KY, 40536 USA.
- W-27 HIV-TAT-ACTIVATED T CELLS INHIBIT NEUROGENESIS THROUGH RELEASE OF GRANZYME B.** T Wang<sup>1</sup>, T Johnson<sup>1</sup>, PA Calabresi<sup>1</sup>, A Nath<sup>1</sup>; <sup>1</sup>Department of Neurology, Johns Hopkins University, Baltimore, MD 21287 USA.
- W-28 CELLULAR MICRORNA EXPRESSION CORRELATES WITH SUSCEPTIBILITY OF MONOCYTES/MACROPHAGES TO HIV-1 INFECTION.** X Wang<sup>1</sup>, L Ye<sup>1</sup>, W Hou<sup>1</sup>, Y Zhou<sup>1</sup>, YJ Wang<sup>1</sup>, DS Metzger<sup>2</sup>, WZ Ho<sup>1</sup>; <sup>1</sup>Division of Allergy & Immunology, The Children's Hospital of Philadelphia and <sup>2</sup>Department of Psychiatry, The Center for Studies of Addiction, University of Pennsylvania School of Medicine, Philadelphia, PA, 19104 USA.
- W-29 OPIOIDS INHIBIT INTRACELLULAR ANTI-HIV-1 MICRORNA EXPRESSION AND POTENTIATES HIV INFECTION OF PERIPHERAL BLOOD MONOCYTES.** X Wang<sup>1</sup>, Y Zhou<sup>2</sup>, MQ Liu<sup>2</sup>, L Ye<sup>2</sup>, E Riedel<sup>1</sup>, DJ Zhou<sup>2</sup>, WZ Ho<sup>1</sup>; <sup>1</sup>Division of Allergy and Immunology, The Children's Hospital of Philadelphia, University of Pennsylvania, School of Medicine, Philadelphia, PA, USA 19104; <sup>2</sup>Division of Virology, Wuhan Center for Disease Prevention and Control, Wuhan, 430015 China.
- W-30 CHARACTERISTICS OF HEROIN USERS IN METHADONE MAINTENANCE TREATMENT CLINICS IN WUHAN, CHINA.** Z Wang<sup>1</sup>, L Pulin<sup>1</sup>, L Li<sup>1</sup>, W Xia<sup>1</sup>; <sup>1</sup>Division of HIV/AIDS Prevention, Wuhan Center for Disease Control & Prevention, Wuhan, 430015 China; <sup>2</sup>Division of Allergy and Immunology, The Children's Hospital, Philadelphia, PA, 19104 USA; <sup>3</sup>Department of Psychiatry, the University of Pennsylvania School of Medicine, Philadelphia, PA, 19104 USA; <sup>4</sup>Department of Psychiatry, Yale University School of Medicine, New Haven, CT, 06519 USA

- W-31 BORNA DISEASE VIRUS P PROTEIN AFFECTS NEURAL TRANSMISSION THROUGH INTERACTING WITH GAMMA AMINOBUTYRIC ACID RECEPTOR-ASSOCIATED PROTEIN.** JG Wu<sup>1</sup>, GQ Peng<sup>1</sup>, Y Yan<sup>1</sup>, SQ Wang<sup>1</sup>, CL Zhu<sup>1</sup>, J Hu<sup>1</sup>, Y Zhu<sup>1</sup>, FM Zhang<sup>1</sup>; <sup>1</sup>State Key Laboratory of Virology, Wuhan University, Wuhan, 430072 China.
- W-32 BORNA DISEASE VIRUS P PROTEIN INHIBITS NITRIC OXIDE SYNTHASE GENE EXPRESSION IN ASTROCYTES.** JG Wu<sup>1</sup>, GQ Peng<sup>1</sup>, FM Zhang<sup>1</sup>, Q Zhang<sup>1</sup>, K Wu<sup>1</sup>, F Zhu<sup>1</sup>; <sup>1</sup>State Key Laboratory of Virology, Wuhan University, Wuhan, 430072 China.
- W-33 REGULATION OF NEURAL PROGENITOR CELL MIGRATION BY CHEMOKINES PRODUCED IN HIV-1 INFECTION IN SCID MICE.** YW Wu<sup>1</sup>, HP Peng<sup>1</sup>, HD Dou<sup>1</sup>, YH Huang<sup>1</sup>, JZ Zheng<sup>1</sup>; <sup>1</sup>Department of Pharmacology & Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE, 68198 USA.
- W-34 CHEMOKINE CCL2 ENHANCES EXCITATORY POSTSYNAPTIC CURRENTS (EPSCS) IN THE CA1 REGION OF RAT HIPPOCAMPUS.** H Xiong<sup>1</sup>, H. Tang<sup>1</sup>, Y. Zhou<sup>1</sup>, D. Hu<sup>1</sup>; <sup>1</sup>Department of Pharmacology & Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE, 68198-5880 USA.
- W-35 EFFECT OF RELAPSE PREVENTION ON DRUG ADDICTS BY 4C INTERVENTION MODE IN REEDUCATION-THROUGH-LABOR CENTERS.** YQ Yan<sup>1</sup>, Q. He<sup>2</sup>, J. Gong<sup>1</sup>, NN Yang<sup>1</sup>, ZZ Wang<sup>2</sup>; <sup>1</sup>Department for Chronic Disease Prevention & Control, Wuhan Centers for Disease Prevention & Control, Wuhan, 430015 China; <sup>2</sup>School of Public Health, Tongji Medical College, Huazhong University of Science & Technology, Wuhan, 430030 China.
- W-36 ALCOHOL ENHANCES FULL CYCLE HEPATITIS C VIRUS INFECTION OF HUMAN HEPATOCYTES.** L Ye<sup>1</sup>, SH Wang<sup>1</sup>, X Wang<sup>1</sup>, Y Zhou<sup>2</sup>, DJ Zhou<sup>2</sup>, WZ Ho<sup>1</sup>; <sup>1</sup>Division of Allergy & Immunology, The Children's Hospital of Philadelphia, Philadelphia, PA, 19104 USA; <sup>2</sup>Division of Virology, Wuhan Centers for Disease Control and Prevention, Wuhan, 430022 China.
- W-37 ACTIVATION OF TLR3 INHIBITS HIV INFECTION OF HUMAN MACROPHAGES.** Y Zhou<sup>1</sup>, X Wang<sup>1</sup>, L Ye<sup>1</sup>, D Zhou<sup>2</sup>, Q Hu<sup>2</sup>, W Hou<sup>1</sup>, WZ Ho<sup>1</sup>; <sup>1</sup>Division of Allergy & Immunology, The Children's Hospital of Philadelphia, Philadelphia, PA, 19104 USA; <sup>2</sup>Division of Virology, Wuhan Centers for Disease Prevention and Control, Wuhan, 430022 China.
- W-38 ACTIVATION OF TOLL-LIKE RECEPTORS INHIBITS HERPES SIMPLEX VIRUS-1 INFECTION OF HUMAN NEURONAL CELLS.** Y Zhou<sup>1,2</sup>, L Ye<sup>2</sup>, Q Wan<sup>2</sup>, L Zhou<sup>2</sup>, X Wang<sup>2</sup>, JL Li<sup>2</sup>, SX Hu<sup>3</sup>, DJ Zhou<sup>1</sup>, WZ Ho<sup>2</sup>; <sup>1</sup>Wuhan Centers For Disease Prevention and Control, Wuhan, 430022 China; <sup>2</sup>Division of Allergy & Immunology, The Children's Hospital of Philadelphia, Philadelphia, PA, 19104 USA; <sup>3</sup>Center for Infectious Disease and Microbiology Translational Research, University of Minnesota Medical School, Minneapolis, MN 55455 USA.
- W-39 CATECHOL-O-METHYLTRANSFERASE (COMT) GENE VARIANTS ARE ASSOCIATED WITH NOVELTY SEEKING AND SELF DIRECTIVENESS IN CHINESE HEROIN DEPENDENT PATIENTS.** M Zhao<sup>1</sup>, S Yu<sup>1</sup>, J Du<sup>1</sup>, H Chen<sup>1</sup>, C Fan<sup>1</sup>, D Wang<sup>1</sup>; <sup>1</sup>Shanghai Mental Health Center, Medical School of Shanghai Jiao Tong University, Shanghai, 200030 China.
- W-40 DIMINISHED TOLL LIKE RECEPTOR-4-MEDIATED INNATE IMMUNITY IN NEONATAL BRAINS.** H Zhou<sup>1</sup>; <sup>1</sup>Department of Biological Sciences, Seton Hall University, South Orange, NJ, 07079 USA.
- W-41 CHARACTERISTICS OF HEROIN USERS IN METHADONE MAINTENANCE TREATMENT CLINICS IN WUHAN, CHINA.** W Zhou<sup>1</sup>, P Liu<sup>1</sup>, L Luo<sup>1</sup>; <sup>1</sup>Division of HIV/AIDS Prevention, Wuhan Center for Disease Control and Prevention, Wuhan, 430015 China; <sup>2</sup>Division of Allergy and Immunology, The Children, Philadelphia, PA, 19104 USA; <sup>3</sup>Department of Psychiatry, University of Pennsylvania School of Medicine, Philadelphia, PA, 19104 USA; <sup>4</sup>Department of Psychiatry, Yale University School of Medicine, New Haven, CT, 06519 USA.
- W-42 EFFECTS OF CCK-8 AND ITS RECEPTOR ANTAGONIST ON  $\mu$ -OPIOID RECEPTOR IN DIFFERENT BRAIN REGIONS OF MORPHINE WITHDRAWAL RATS.** D Wen , B Cong , C-L Ma, Y-J Zhang, S-J Li, Z-Y Ni. Department of Forensic Medicine, Basic Medical College, Hebei Medical University, Hebei Key Laboratory of Forensic Medicine, Shijiazhuang, 050017 China

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**Remove all posters at the end of the session**

4:30 – 6:30 PM

**SYMPOSIUM #2**

(The Pearl Ballroom)

**CO-INFECTIONS AND OTHER DISEASE PROCESSES IN HIV INFECTION**

Session Co-Chairs:

**Harris Gelbard, M.D., Ph.D.**  
(University of Rochester Medical Center)

**Zhihong Hu, Ph.D.**  
(Wuhan Institute of Virology, Wuhan, Hubei, P.R. China)

Symposium Talks:

- 4:30 – 4:45      **“HCV Coinfection with Different Disease Progression in Two Cohorts That Acquired HIV-1 through Different Infection Routes”**  
**Xiaoyan Zhang M.D., Ph.D.**  
(Chinese National Center for AIDS/STD Control and Prevention, Beijing, P.R. China)
- 4:50 – 5:05      **“Enduring Neuroimmune Events that Lead to HAND (HIV-1 Associated Neurocognitive Disorders)”**  
**Harris Gelbard, M.D., Ph.D.**  
(University of Rochester Medical Center)
- 5:10 – 5:25      **“Smoking/Nicotine in Inflammation, Immunity and Lung Diseases”**  
**Mohan Sopori, Ph.D.**  
(Lovelace Respiratory Research Institute)
- 5:30 – 5:45      **“Overview of Substance Abuse and Hepatitis C Virus Infection and Co-Infections in India”**  
**Debasish Basu, M.D.**  
Department of Psychiatry  
(Postgraduate Institute of Medical Education & Research, Chandigarh, India)
- 5:50 – 6:05      **“HIV Neuropathogenesis and NeuroAIDS Biomarkers”**  
**Johnny J. He, Ph.D.**  
(Indiana University School of Medicine)
- 6:10 – 6:25      **“Morphine, Neuroimmunomodulation and Tuberculosis; A Rodent Model”**  
**Prati Pal Singh, Ph.D.**  
(National Institute of Pharmaceutical Education and Research, India)

**Evening**

**Dinner on your own**

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## Thursday, April 23, 2009

- 7:00 – 8:00 AM**      **Continental Breakfast for Hotel Guests**      (Café Balcony)
- 8:00 – 10:20 PM**      **SYMPOSIUM #3**      (The Pearl Ballroom)  
**PRIMATE MODELS FOR STUDYING DRUG ADDICTION & VIRAL INFECTION**  
*Session Co-Chairs:*  
**Zhiwei Chen, Ph.D., D.V.M.**  
(University of Hong Kong, Pokfulam, Hong Kong, China S.A.R.)  
**Anil Kumar, Ph.D.**  
(University of Missouri, Kansas City)  
*Symposium Lecture:*  
8:00 – 8:35      **“An SIV/Chinese Macaque Model for Drugs of Abuse Research”**  
**Zhiwei Chen, Ph.D., D.V.M.**  
(University of Hong Kong, Pokfulam, Hong Kong, China S.A.R.)  
*Symposium Talks:*  
8:45 – 9:05      **“Genetic Diversity and Compartmentalization of SIV in the CNS at Early Stages of Infection”**  
**Francis Novembre, Ph.D.**  
(Yerkes National Primate Research Center)  
9:10 – 9:30      **“Morphine and Rapid Disease Progression in Non-Human Primate Model of AIDS: Inverse Correlation between Disease Progression & Virus Evolution”**  
**Anil Kumar, Ph.D.**  
(University of Missouri, Kansas City)  
9:35 – 9:55      **“M. tuberculosis Infection in Non-Human Primates”**  
**Jing Zhang, Ph.D.**  
(ABSL-3 Laboratory of Wuhan University, Wuhan, P.R. China)  
10:00 – 10:20      **Coffee/Tea Break**      (Pearl Ballroom Foyer)
- 10:20 - 11:40 PM**      **YOUNG INVESTIGATOR'S SYMPOSIUM**      (The Pearl Ballroom)  
*Session Co-Chairs:*  
**Gayle Baldwin, Ph.D.**  
(David Geffen School of Medicine at UCLA)  
**Yaoying Zeng, M.D.**  
(Jinan University, Guanzhou, P.R. China)  
10:20 – 10:25      **Introduction to the YITA Symposium**  
*Pre-Doctoral Presentations:*  
10:25 – 10:40      **“The Role of Cannabinoid Receptors in the Modulation of Toll-Like Receptor (TLR) 4 Expression and Antibody Class Switching in Mouse B Lymphocytes”**  
**Marisela Agudelo**  
(College of Medicine, University of South Florida)



## Friday, April 24, 2009

- 7:00 – 8:00 AM**      **Continental Breakfast for Hotel Guests**      (Café Balcony)
- 8:00 – 8:55 AM**      **PLENARY LECTURE II:**      (The Pearl Ballroom)
- 8:05 – 8:10      Introduction by He Li, Ph.D., Vice-Chair, Chinese International Steering Committee  
(Tongji Medical College, HUST, Wuhan, Hubei, P.R. China)
- 8:10 – 8:50      **“Molecular Biology of the Incubation of Drug Craving”**  
**Lin Lu, M.D., Ph.D.**  
Director and Professor, National Institute on Drug Dependence  
(Peking University Health Science Center, Beijing, P.R. China)
- 9:00 – 11:30 AM**      **SYMPOSIUM #4**      (The Pearl Ballroom)
- BASIC MECHANISMS IN DRUG ABUSE AND NEUROBIOLOGY**
- Session Co-Chairs:*
- Toby K. Eisenstein, Ph.D.**  
(Temple University School of Medicine)
- He Li, Ph.D.**  
(Tongji Medical College, HUST, Wuhan, Hubei, P.R. China)
- Symposium Lecture:*
- 9:00 – 9:35      **“Opiate Mechanisms in the Immune System: Comparing Pharmacology and Knockout Approaches”**  
**Claire Gaveriaux-Ruff, Ph.D.**  
(IGBMC CNRS/INSERM/ULP, Strasbourg, France)
- Symposium Talks:*
- 9:45 – 10:00      **“Novel Mechanisms in Neurotoxicity and NeuroAIDS”**  
**Olimpia Meucci, M.D., Ph.D.**  
(Drexel University)
- 10:05 – 10:25      **Coffee/Tea Break**      (Pearl Ballroom Foyer)
- 10:25 – 10:40      **“Cannabinoids and Immunity: The Antibody Surge”**  
**Thomas W. Klein, Ph.D.**  
(University of South Florida, Tampa)
- 10:45 – 11:00      **“Determination of Biological Pathways Underlying Addiction and Neuroprotection by Nicotine”**  
**Ming Li, Ph.D.**  
(University of Virginia)
- 11:05 – 11:20      **“Methamphetamine-Induced Effects are Enhanced in the Presence of HIV Viral Proteins”**  
**Sulie L. Chang, Ph.D.**  
(Seton Hall University)
- 11:30 – 11:45 AM**      **Pick-up box lunches**      (Pearl Ballroom Foyer)

**11:45 – 2:15 PM**     **SYMPOSIUM #5**     (The Pearl Ballroom)

**NOVEL MECHANISMS IN NEUROTOXICITY AND NEUROAIDS**

Session Co-Chairs:

**Changlin Lu, Ph.D.**

(2<sup>nd</sup> Military Medical University, Shanghai, P.R. China)

**Yuri Persidsky, M.D., Ph.D.**

(Temple University School of Medicine)

Symposium Talks:

- 11:45 – 12:05     **“Is HIV-1 Induced CNS Damage Clade Specific?”**  
**Pankaj Seth, Ph.D.**  
(National Brain Research Centre, Manesar, Haryana, India)
- 12:10 – 12:30     **“The Role of CD38 as a Novel Pharmacological Pathway in the Mechanisms of Neuro-AIDS.”**  
**Anuja Ghorpade, Ph.D.**  
(University of North Texas Health Science Center, TX)
- 12:35 – 12:55     **“CNS Immunity Modulates Synaptic Protein Economy in HIV Encephalitis”**  
**Benjamin Gelman, Ph.D., M.D.**  
(University of Texas Medical Branch, Galveston, TX)
- 1:00 – 1:20     **“Molecular Pathology of the Dopamine Transporter in HIV-1 and Cocaine Abuse”**  
**Rosemarie Booze, Ph.D.**  
(University of South Carolina)
- 1:25 – 1:45     **“Comparative Studies on Calcium Influx Triggering Effect in Human Microglia Between Inactivated Particles and Glycoprotein gp120 of R-5 Tropic and X4 Tropic HIV-1”**  
**Yaoying Zeng, M.D.**  
(Jinan University, Guanzhou, P. R. China)
- 1:50 – 2:10     **“The Use of Anti-Aging Chinese Medicinal Herb Gouqizi (Wolfberry), Exercise and Self-Assembling Peptide in Promoting Neuroprotection”**  
**Kwok-Fai So, Ph.D.**  
(Department of Anatomy, University of Hong Kong, China S. A. R.)
- 2:15 – 2:30     **Coffee/Tea Break**     (Pearl Ballroom Foyer)

**2:30 – 5:00 PM**     **SYMPOSIUM #6**     (The Pearl Ballroom)

**HOST INNATE FACTORS AND IMMUNOLOGIC AND BIOLOGIC OBSTACLES TO THE CONTROL OF HIV**

Session Co-Chairs:

**Sabita Roy, Ph.D.**

(University of Minnesota)

**Yiming Shao, M.D., Ph.D.**

(Chinese Center for Disease Control and Prevention, Beijing, P.R. China)

Symposium Lecture:

- 2:30 – 3:05     **“Cohort Study on Host Factors of HIV Disease Progression”**

**Yiming Shao, M.D., Ph.D.**

(Chinese Center for Disease Control and Prevention, Beijing, P.R. China)

Symposium Talks:

3:15 – 3:35 **“Substances of Abuse and the Adaptive Immune Response – Implications for HIV Pathogenesis”**

**Sylvia Kiertscher, Ph.D.**  
(David Geffen School of Medicine at UCLA)

3:40 – 4:00 **“HIV Neuropathogenesis: the Tightrope Walk of Innate Immunity”**

**Shilpa Buch, Ph.D.**  
(University of Kansas Medical Center)

4:05 – 4:25 **“Innate and Adaptive Factors Controlling HIV-1 Genomic Activation”**

**Brian Wigdahl, Ph.D.**  
(Drexel University)

4:30 – 4:50 **“Intracellular Innate Immunity and HIV Infection”**

**Wen-Zhe Ho, M.D., M.P.H.**  
(University of Pennsylvania)

**7:00 – 10:00 PM EVENING BANQUET AND AWARDS CEREMONY** (The Jiangcheng Ballroom)

Hosted by **Yuri Persidsky, M.D., Ph.D.** - incoming SNIP President

Special Dinner Presentation:

**“Acupuncture in Drug Addiction – Mechanisms that Bridge East and West Medicine”**

**Jisheng Han, Ph.D.**  
Director and Professor, Neuroscience Research Institute  
Peking University, Beijing, P.R. China

**Meeting Adjourned!**

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**Saturday, April 25, 2009 – Departure Day**

Group transportation to Wuhan Airport to be scheduled