Society on Neurolmmune Pharmacology (SNIP)



19th Scientific Conference

Conrad San Juan Condado Plaza San Juan, PR

April 3-6, 2013

Previous Conferences:1993 Toronto Hilton, Canada; 1994 Breakers, Palm Beach, FL; 1995 Bristol Court, San Diego, CA; 1996 Caribe Hilton, San Juan, PR; 1997 Opryland Hotel, Nashville TN; 1998 Scottsdale Princess, Scottsdale, AR; 2000 NIH Mazur Auditorium, Bethesda MD; 2001 Emory University, Atlanta, GA; 2002 Clearwater Beach Hilton, Clear Water, FL; 2004, La Fonda Hotel, Santa Fe, NM; 2005 Clearwater Beach Hilton, Clear Water, FL; 2006 La Fonda Hotel, Santa Fe, NM; 2007 City Center Marriott Hotel, Salt Lake City, UT; 2008 Francis Marion Hotel, Charleston, SC; 2009 Pearl Plaza Howard Johnson, Wuhan, China; 2010 Manhattan Beach Marriott, Manhattan Beach, CA; 2011 Hilton Clearwater Beach Resort, Clear Water Beach, FL; 2012 Hawaii Prince Hotel, Honolulu, HI

TABLE OF CONTENTS

Title Page	1
Table of Contents	2
Twenty Years of SNIP	3
Acknowledgement of Special Contributors and Sponsors	4
The SNIP Council, Officials, and Committees	5-6
Annual Society Awards	7
2013 Early Career Investigator Travel Awardees	8-9
2013 Plenary Speakers	10-11
SNIP Administrative Meetings	12

Scientific Program

Wednesday	<u>April 3, 2013</u> Opening Reception Poster Session 1	Young Investigators Session	13 13-19
Thursday			10 10
Thursday	<u>April 4, 2013</u> Plenary Lecture 1 Symposium I	Benjamin Chen, M.D., Ph.D. Neuroimmune Activation by Alcohol, Drugs and or	19
		AIDS Contributes to Addiction Neurobiology	19-20
	Plenary Lecture 2	Thirumala-Devi Kanneganti, Ph.D.	20
	Meet the Mentors Lunched SNIP Annual Business Me	-	20 20
	Symposium II	Emerging Trends in Substance Abuse, HIV	
		Infection and Neuropathogenesis	20-21
	Poster Session 2	General Session	21-28
Friday			2.20
Filday	April 5, 2013 JNIP Editorial Board Meet	ina	28
	Plenary Lecture 3	Jon M. Lindstrom, Ph.D.	28
	Symposium III	Physiological and Pathological Role of Nicotinic	-
		Receptors	28
	Plenary Lecture 4	Bert t ['] Hart, Ph.D.	28
	Symposium IV	Animal Models of HIV infection and Drug Abuse	;
		Session	29
		Grant Writing Workshop Session	29
	Bill Narayan Lecture	Avi Nath, M.D.	29
	Symposium V	Cannabinoids, HIV Pathogenicity, and Other Infectious Disease Processes	29-30
Saturday	April 6, 2013		
-	Plenary Lecture 5	Tariq Rana, Ph.D.	30
	Symposium VI	Neuropathology of HIV in an Aging Population	30
	Symposium VII	Early Career Investigator Symposium	31
		oAIDS, Substance Abuse Think Tank	31
	Symposium VIII	HIV, Drug Abuse, and NeuroImmune Pharmacology Research in Puerto Rico	e 31-32
	Banguet and Awards Cere	••	32
List of Conference Par	•	-	33-40
	•		
Hotel Conference Area	waps		41

Twenty Years of SNIP

By Bob Donahoe

A BRIEF HISTORY: In San Juan we proudly celebrate twenty years of the Society on NeuroImmune Pharmacology (SNIP). The first Conference that led to the formation of SNIP was held in Toronto, in 1993. It was initially conceptualized and organized at a meeting of the Committee (now College) on Problems of Drug Dependence (CPDD) in Keystone, CO, in 1992.

CPDD had been sponsoring posters and symposia on immunopharmacology (IP) since 1984. By the 1992 meeting, interest in IP had grown tremendously and for the first time CPDD scheduled two symposia on the topic. Attendance approached 90 scientists. Upon exiting the second symposium, excitement among attendees was palpable. Animatedly, Dr. Burt Sharp began chatting up the idea: *"We need to hold our own meetings."* That evening, in John Madden's condo, a working group (Drs. Burt Sharp, John Madden, Bob Donahoe, Marty Adler, Toby Eisenstein, Tom Rogers, Tom Klein and Jean Bidlack) met to effect such an effort. The proposal evolved to organize a satellite meeting the following year with CPDD in Toronto. Marty Adler, being the Executive Secretary of CPDD, spearheaded the joint-meeting arrangements. John Madden and Burt Sharp, working with guidance from Dr. Charles Sharp from the NIDA program office, obtained a NIDA-sponsored R13 Grant to help support this first 'SNIP' meeting, and especially to support expenses of jury-selected young investigator travel awardees (YITAs) to the meeting.

Several subsequent satellite conferences were held with CPDD and one with Neuroscience. In 2000, 'SNIP's' first 'independent' meeting was held at NIH. The high attendance there encouraged talk among the working group and other 'regulars' to consider forming, "*Our own society*." In the fall of 2000, Bob Donahoe organized a meeting to initiate a new society in the office of Burt Sharp at the University of Tennessee, College of Medicine, in Memphis. Attending were Bob, Burt, John Madden and Rick Weber

(photo below). With communicated input from the working group, they set the groundwork for a society-choosing the SNIP name by a vote of the principals involved, which included, Phil Peterson, Tom Klein, Tom Rogers, Jean Bidlack and Toby Eisenstein. Interim officers were chosen. Corporate papers were filed and tax-exempt status obtained. An R13 grant application was funded to hold the first conference at Emory official SNIP University in Atlanta, in 2001. There, the first society officers were elected. Notably, the SNIP Treasury was initially financed through the generous personal contributions of a group of 40 Charter Members, to whom all SNIP members are indebted.



[An in-depth history of SNIP is at: www.s-nip.org/confrences/history.]

SNIP CHARTER MEMBERS: Martin Adler, Barbara Bayer, Jean Bidlack, Guy Cabral, Linda Chang, Sulie Chang, Paul Cheney, Ronald Chuang, Robert Donahoe, Toby Eisenstein, Howard Fox, Herman Friedman, Clair Gaveriaux-Ruff, Karl Goodkin, Steve Henriksen, John Holliday, Thomas Jerrells, Norbert Kaminski, Steve Keller, Tom Klein, Mahendra Kumar, Donald Lysle, John Madden, Fred Marsteller, Bonnie Miller, Tom Molitor, Madhaven Nair, Avindra Nath, Phillip Peterson, Fernando Renaud, Thomas Rogers, Sabita Roy, Walter Royal, Burt Sharp, Charles Sharp, Pravin Singhal, Mohan Sopori, George Stefano, Richard Weber, James Zadina

Acknowledgements

The Society on NeuroImmune Pharmacology expresses its deep appreciation for the contributions made by so many individuals and institutions in support of this 19th SNIP Scientific Conference in San Juan, Puerto Rico. The scientific program was developed by the Ad Hoc Meetings Committee chaired by Sabita Roy, Phil Peterson, and Shilpa Buch. Special thanks go to the Meeting Organizer, Bob Donahoe, and to the local organizing committee: Loyda Melendez and Richard Noel (co-chairs) and members Vanessa Rivera, Valerie Wojna, and Annabell Segarra.

Sponsors and Contributors

	ne Society on NeuroImmune Pharmacology (SNIP) sincerely thanks following sponsors we enerously contributed to different activities during 19 th Society of NeuroImmune Pharmacology M	
1.	National Institute on Drug Abuse* To provide the Early Career Investigator Traveling Awards and partially support the programs for the Early Career Investigators.	\$35,001
2.	National Institute on Alcohol and Alcoholism	\$15,000
	To support Symposium #1 (Neuroimmune Activation Contributes to Addiction Neurobiology and Travel Scholarship to support young investigators involved in alcohol research.)
3.	National Institute of Mental Health	\$7000
	Partial sponsorship of Symposium #6: (Neuropathology of HIV-1 in an Aging Population)	
4.	Department of Surgery-Basic and Translation Division, University of Minnesota Medica	l
	School	\$6000
	Partial sponsorship of Reception	
5.	Institute of Neuroimmune Pharmacology and Center for Personalized Nano Medicine	·,
	HW College of Medicine, FIU	\$5000
	Graduate trainee associated expenses, partial sponsorship of Early Career Investigator Lunch	
6.	Dr. Brian Wigdahl, Drexel University	\$5,000
	Partial sponsorship of Early Career Investigator Lunch	
7.	Dr. Pravin Singhal	\$3,000
	Early Career Investigator Travel Award	
8.	Drs. Howard Fox /Shilpa Buch	\$5,000
	Bill Narayan Memorial Lecture	
9.	Drs. Tom Molitor /Sabita Roy	\$2,500
	Grants Writing Workshop Lunch	
10.	Dr. Jose Lasalde, Vice President for Research & Technology, University of Puerto Rico	\$2,000
	Program Book Printing	
11.	Dr. Kenira Thompson, Dean for Research, Ponce School of Medicine	\$1,000
	Partial sponsorship of Early Career Investigator Lunch	

*The 2013 meeting was partially sponsored by the R13 DA023184 conference award to Sulie L. Chang, Institute of NeuroImmune Pharmacology at Seton Hall University

2012-2013 Council, Officials & Committees

Sabita Roy, Ph.D. President

Professor of Surgery & Director, Division of Infection, Inflammation & Vascular Biology University of Minnesota Academic Health Center, Minneapolis, MN 55455

Howard S. Fox, MD, Ph.D. President Elect Professor University of Nebraska Medical Center Omaha, NE 68198-5800

Guy A. Cabral, Ph.D. Past President Professor, Microbiology and Immunology Chair, Graduate Program Committee Virginia Commonwealth University School of Medicine Richmond, VA 23298

Shilpa Buch

Secretary Professor and Vice Chair Research Department of Pharmacology and Experimental Neuroscience University of Nebraska Medical Center Omaha, NE 68198-5880

Anil Kumar Ph.D. Treasurer Chair and Professor Division of Pharmacology and Toxicology UMKC School of Pharmacy Kansas City, MO 64108

Anuja Ghorpade, Ph.D. Council Member Membership Committee Chair Professor and Chair Department of Cell Biology and Anatomy University of North Texas Health Science Fort Worth, TX, 76107

Sulie L. Chang, Ph.D. Council Member Meetings Committee Chair Professor and Director Institute of Neuroimmune Pharmacology Seton Hall University South Orange, NJ 07079

Sanjay Maggirwar, Ph.D. Council Member Communications Committee Chair Associate Professor Department of Microbiology and Immunology University of Rochester Medical Center Rochester, NY 14642

Kurt F. Hauser, Ph.D. Council Member Professor Department of Pharmacology and Toxicology Virginia Commonwealth Univ. School of Med. Richmond, Virginia 23298-0613



















Linda Chang MD Council Member Professor of Medicine John A. Burns School of Medicine University of Hawaii at Manoa The Queen's Medical Center Honolulu, Hawaii 90095-7363

Wenzhe Ho, MD M.Ph. Council Member

Professor, Dept. Pathology & Laboratory Medicine, Dept. Anatomy and Cell Biology Temple University School of Medicine 3500 N. Broad Street, Philadelphia, PA 19140

Michal Toborek, MD, Ph.D. Council Member

Professor and Vice-Chair for Research Dept of Biochemistry and Molecular Biology University of Miami School of Medicine Miami, FL 33136

Christoph Stein, MD

Council Member, International Direktor Klinik für Anaesthesiologie und Operative Intensivmedizin Freie Universität Berlin, Benjamin Franklin, Hindenburgdam 30 D-12200 Berlin

Prati Pal Singh, Ph.D.

Council Member, International Professor, Department of Pharmacology and Toxicology, In-Charge, Centre of Infectious Diseases, National Institute of Pharmaceutical Education and Research Punjab, India

Robert M. Donahoe, Ph.D. Conference Director Adjunct Professor Department of Pathology, University of Utah, School of Medicine Salt Lake City, UT 84112

Santosh Kumar, Ph.D. Early Career Investigator Committee Chair Assistant Professor Pharmacology and Toxicology, School of Pharmacy, University of Missouri-Kansas City Kansas City, MO 64108

Howard E. Gendelman, MD Ex Officio, Editor-in-Chief, JNIP Larson Professor of Internal Medicine and Infectious Diseases Chair, Department of Pharmacology and Experimental Neuroscience University of Nebraska Medical Center Omaha, NE 68198-5880

Pravin C. Singhal, MD Ad hoc Member Director, Renal Research Molecular Laboratory Professor of Medicine, Hofstra North Shore LIJ Medical School, Great Neck, NY 11021



















Executive Committee

President: Sabita Roy President elect: Howard Fox Secretary: Shilpa Buch Treasurer: Anil Kumar Past President: Guy Cabral

Meetings Committee

Sulie L. Chang, Chair; Michael Roth, Linda Chang

Ad Hoc Meetings Committee

<u>Co-Chairs: Sabita Roy, Phil Peterson, Shilpa Buch;</u> Guy Cabral, Howard Fox, Anil Kumar, Marcus Kaul, Pravin Singhal, Richard Noel, Michael Toborek, Kelly Jordan- Sciutto, Bob Donahoe, Santosh Kumar

Early Career Investigator Committee

Santosh Kumar, Chair; Michael Nonnemacher, Sylvia Kiertscher, Vanessa Rivera Amill, Prasun K Datta, James Haorah, Samikkannu Thangavel, Tom Molitor, Anuja Ghorpade, Rosemarie Booze, Wenzhe Ho, Shao-Jun Tang, Walter Royal, Loyda Melendez

Communications Committee

Sanjay B. Maggirwar, Chair; Rosemarie Booze, Shilpa Buch, Anil Kumar, Larisa Poluektova, Mohan Sopori

Membership Committee

Anuja Ghorpade, Chair; Norbert Kaminski, Patricia Molina, Jialin Zheng

Finance and Audit Committee

Anil Kumar, Chair; Linda Chang, Bob Donahoe

Election Nominating Committee

Shilpa Buch, Chair; Howard Fox, Guy Cabral, Sabita Roy, Anil Kumar

Society Awards Committee

Howard Fox, Chair; Yuri Persidsky, Tom Klein, Lena Al-Harthi, Peter Gaskill

Journal Publications Committee

Sabita Roy, Chair; Guy Cabral, Howard Fox

Public Relations Committee

Sabita Roy, Chair; Bob Donahoe, Phil Peterson, Clair Gaveriaux-Ruff, Howard Fox

Annual Society Awards

Each year the Society recognizes a few of its members who have exemplified unique qualities of leadership, service and/or scholarship on behalf of the Society and its mission. The following awards are bestowed annually.

Herman Friedman Founders Award

For Visionary Contributions in the Establishment and Continued Development of the Society This award is named in honor of Herman Friedman, PhD, a man who promoted the study of drugs of abuse, infections, and immunity, promoted meetings among scientists based on this theme, and was a founding member of the Society. He passed away in 2007. This award recognizes individuals whose contribution to SNIP was visionary and served as a key to the founding of the Society and/or its continued development and perpetuation.

Distinguished Services Award

For Extraordinary Service to Society and to the Accomplishment of its Mission The Distinguished Services Award recognizes an individual whose efforts and commitment to the society has been both consistent and exemplary over protracted years of service.

Outstanding Service And Support Award

For Extraordinary Service to Society and to the Accomplishment of its Mission

This award is given in recognition of individuals who are not necessarily investigators or members, but who have provided extraordinary service in facilitating the operation of Society initiatives. Examples would include individuals who often work "behind the scenes" to facilitate the Society by work on its publications, fundraising, and/or in the organization or conduct of meetings and symposia.

Wybran Award

For Extraordinary Contributions that Help to Integrate the Fields of NeuroImmunology, Drugs Of Abuse, and Immunity to Infection

Joseph Wybran, MD, was trained in Immunology and worked for some time in the USA before returning to his Brussels home. He was a seminal contributor through the 1970s and into the 1980s to the integration of the fields of neuroimmunology, drugs of abuse and immunity to infection. As a measure of the impact that his science had on the field of neuroimmune pharmacology, his seminal paper published in the Journal of Immunology 1979 regarding the ability of endogenous and exogenous opioids to modulate T cell rosette formation in a naloxone reversible way was the most cited research article through the early 1980s. He was killed, presumably, by terrorists reacting to his leadership and participation in Jewish causes. He was shot in his car in the parking lot of his work, October 3, 1989 in Brussels. Sadly, this tragedy occurred at the peak of Joe's career. The Wybran Award was created to memorialize Joe's scientific prestige in the area of neuroimmune pharmacology. It is meant, most particularly, to serve as a remembrance of his leading contributions that underpin SNIP. The Wybran Award is the highest honor bestowed by SNIP in recognition of the very best scientific contributions that have resulted in the preservation and expansion of the field of Neuroimmune Pharmacology.

Early Career Investigator Travel Award Winners 2013

In order to promote interest in the field of Neuroimmune Pharmacology and to recognize the excellent work being done by Early Career investigators in this field, the Society provides Early Career Investigator Travel Awards (ECITA) to graduate students and post-doctorate trainees (within 5 years of Ph.D.) working with a SNIP Member and seeking funds to attend the annual conference of the Society on NeuroImmune Pharmacology. For the 2013 SNIP Scientific Conference, a total of 66 abstracts were submitted. Of which 22 graduate students and 13 post-doctorate fellows were awarded. Of these 35 awardees, 9 awards were conferred to students and post-doctorate fellows working in alcohol-related research and these awards were sponsored by NIAAA. The ECITA awards were made in 3 categories: \$750+registration waiver, \$500+registration waiver, and \$500. In addition, 6 students who were among the top candidates were awarded with "Certificate for Excellence". However, they were not given travel awards because they were the 3rd candidates from the same mentor. Finally, the top 3 from each graduate student post-doctorate fellow categories were selected for symposium presentation.

ECITA Awardees	Mentor	University
Pre-Doctoral	Deeb CV	Maharry Madical Callega
Amma, AB	Dash, CV	Meharry Medical College
Bertrand, SJ	Booze, RM	University of South Carolina
Cao, L	Kumar, A	University of Missouri- Kansas City
Chen, Q	Zheng, JC	University of Nebraska Medical Center
Cisneros, I	Ghorpade, A	University of North Texas Health Science Center
Coley, JS	Berman, JW	Albert Einstein College of Medicine
Festa, L	Meucci, O	Drexel University College of Medicine
Gangwani, MR	Kumar, A	University of Missouri- Kansas City
Liu, X	Kumar, A	University of Missouri- Kansas City
Loucil, R	Noel, Jr, RJ	Ponce School of Medicine and Health Sciences
Mamik, MK	Ghorpade, A	University of North Texas Health Science Center
Meng, J	Roy, S	Veterans Affairs Medical Center
Moran, LM	Mactutus, CF	University of South Carolina
Sen, S	Amini, S	Temple University School of Medicine
Shah, A	Kumar, A	University of Missouri- Kansas City
Sindberg, GM	Roy, S	University of Minnesota
Strazza, M	Nonnemacher, M	Drexel University College of Medicine
Vartak, N	Ghorpade, A	University of North Texas Health Science Center
Wang, Y	Zheng, JC	University of Nebraska Medical Center
Williams, DW	Berman, JW	Albert Einstein College of Medicine
Yang, L	Buch, S	University of Nebraska Medical Center
Zhou, Y	Ho, WZ	Temple University School of Medicine
Post-Doctoral		
Ashutosh, F	Ghorpade, A	UNT Health Science Center
Castro, V	Toborek, M	University of Miami
Kiebala, M	Maggirwar, SB	University of Rochester
Lan, X	Singhal, PC	Feinstein Institute for Medical Research
Ma, J	Roy, S	University of Minnesota
Mantri, SK	Dash, CV	Meharry Medical College

Pilakka-Kanthikeel, S Wang, YZ Zhao, L	Nair, M Ho, WZ Zheng, JC	Florida International University Temple University School of Medicine University of Nebraska Medical Center
ECITA-alcohol Awardees	Mentor	University
Pre-Doctoral		
Ande, A	Kumar, S	University of Missouri- Kansas City
Fergoson, LB	Harris, RA	University of Texas, Austin
Franklin, T	Sarkar, DK	Rutgers University
Gofman, L	Potula, R	Temple University School of Medicine
Parikh, N	Wigdahl, B	Drexel University College of Medicine
Teng, S	Molina, P	Louisiana State University Health Sciences Center
Post-Doctoral		
Agudelo , M	Nair, M	Florida International University
Bethel-Brown, C	Buch, S	University of Nebraska Medical Center
Vetreno, RP	Crew, FT	University of North Carolina, Chaper Hill

The SNIP recognizes the service of ECITA committee members (Drs. S. Kumar (Chair), Booze, Datta, Ghorpade, Haorah, Ho, Kiertscher, Meléndez, Molitor, Nonnemacher, Royal, Tang, Thangavel, and Rivera), and thank them for their wonderful job in reviewing the ECITA applications. Professor Arthur Falek, of Emory University, who passed away in 2005, was widely known for his mentorship. In 1982, he was the first recipient of a NIDA grant in the field of NeuroImmune Pharmacology. He held grants in this area of research for 20 more years, until his retirement in 2002. He was an early and ever enthusiastic promotor of SNIP and Early Career Investigators. Accordingly, the ECITA awards are tendered in his honor.

The Society Welcomes our Plenary Speakers



Dr. Benjamin K. Chen is an Associate Professor in the Division of Infectious Diseases, Department of Medicine at the Icahn School of Medicine at Mount Sinai. Dr. Chen began his training in HIV virology with Nobel Laureate David Baltimore and then with Dr. Peter S. Kim and has maintained an interest in the HIV-host cell interactions for 20 years. The work from his laboratory has advanced our understanding of how the assembly and production of HIV in T cells is coordinated by the cell-cell contacts and how these contacts called virological synapses (VS) enhance infection. Using recombinant infectious forms of HIV to facilitate measurement of the steps of the virus life cycle his laboratory revealed that cell adhesion induced by the viral Env protein induces the active recruitment of the assembling viral components to the cell-cell junction. Studies from the lab have

also visualized a endocytic entry pathway that is mediated by the VS, measured the resistance of the VS to neutralization by patient sera, and revealed the simultaneous transmission of multiple genetic copies of HIV by VS. Current studies in the laboratory have focused on the role of cell-to-cell infection in a parenteral model of HIV transmission in humanized mice supported by an Avant Garde Award from the NIH. The goal of these studies is to visualize VS in vivo and to characterize how they participate in viral spread in vivo. He is also a Burroughs Wellcome Investigator in the Pathogenesis of Infectious Diseases. Overall, the studies in the laboratory examine how immune cells actively participate in HIV dissemination and examine a novel paradigm that may help us to understand many aspects of HIV pathogenesis.

Dr. Kanneganti is an Associate Member in the Department of Immunology at St. Jude Children's Research Hospital. Her laboratory focuses on studying the molecular mechanisms of host

defense and inflammation. Dr. Kanneganti has published over 100 papers, many in prestigious journals including Nature, Cancer Cell, Nature Immunology, Nature Reviews Immunology and Immunity. She has made seminal contributions to our understanding of how the innate immune system recognizes and responds to pathogens and how mutations in these sensing systems and signaling affect the development of infectious, inflammatory, and autoimmune diseases in humans. Dr. Kanneganti regularly presents her findings at national and international symposia and at major research institutions throughout the world. She has consistently been active in postdoctoral and graduate student training. Web page: www.stjude.org/kanneganti





Jon Lindstrom. Department of Neuroscience, Medical School of the University of Pennsylvania. Research in my laboratory involves nicotinic acetylcholine receptors (AChRs) of both muscles and nerves. We discovered that myasthenia gravis (MG) is caused by an antibody-mediated autoimmune response to muscle $\alpha 1^*$ AChRs, developed experimental autoimmune MG (EAMG) as an animal model of MG, developed an immunodiagnostic assay for MG, discovered the main immunogenic region (MIR) and determined its structure, and have developed a specific immunosuppressive therapy for EAMG. We made monoclonal antibodies as model autoantibodies and as probes for characterizing neuronal AChRs. We are characterizing the structures and functional properties of human neuronal AChR subtypes expressed in Xenopus oocytes and transfected cell lines. We found that nicotine acts as a

pharmacological chaperone to promote assembly of $\alpha 4\beta 2^*$ AChRs. Subunit concatamers proved especially useful for expressing complex AChR subtypes important for addiction to nicotine such as $(\alpha 6\beta 2)(\alpha 4\beta 2)\beta 3$. We are collaborating in development of positive allosteric modulators selective for $\alpha 5^*$ AChRs for smoking cessation therapy.

Tariq M. Rana, Ph.D., is Professor and Director of the RNA Biology Program at Sanford-Burnham. Dr. Rana's laboratory has discovered fundamental structural and functional features

of small RNAs required for gene silencing. In addition, his laboratory has uncovered mechanisms involving small RNAs and RNA-protein complexes in regulating host-pathogen interactions. Dr. Rana received his Ph.D. from the University of California at Davis and he was an American Cancer Society fellow at the University of California at Berkeley. He is a recipient of numerous awards including a Research Career Award from the National Institutes of Health in 1996. Dr. Rana has advised a number of biotechnology companies and has served as a member of several Scientific Advisory Boards. Prior to joining the faculty of the Sanford-Burnham, Dr. Rana was a Professor of Biochemistry and Molecular Pharmacology and Founding Director of a Program in Chemical Biology at the University of Massachusetts Medical School. Dr. Rana joined Sanford-Burnham in 2008 to establish the Program for RNA Biology.





Prof. dr. Bert 't Hart (59) is a medical biologist with a PhD in immunology. postdoc led а research As aroup in ethnopharmacology, working on the immunologically active principles of medicinal plants. In 1989 I joined the Dutch Primate Centre/BPRC to work on the development and research of non-human primate models for immune-mediated inflammatory disorders. My initial research was in rheumatoid arthritis, but in later years I switched to multiple sclerosis and Parkinson's disease. Currently I am chairman of the Immunobiology department of the Biomedical Primate Research Centre and hold the chair in Neuroimmunology at the University Medical Centre in Groningen.



SNIP Administrative Meetings

Tuesday, April 2, 2013

1:00pm	Opening of Conference Office (Almendros, Ocean Tower, Mezzanine level)
3:00 – 4:00pm	SNIP Executive Committee Meeting (President's Suite)
4:00 -6:30pm	SNIP Meetings /Program Committee (Horizonte, Ocean Tower, Mezzanine level)
7:30pm	SNIP Council Dinner

Wednesday, April 3, 2013

All business meetings on April 3 will take place in Boardroom II, Lagoon Tower, Mezzanine level.

8:00 – 8:20am	Awards Committee
8:20 – 9:05am	ECITA Committee
9:05 – 9:50am	Communications Committee
9:50 – 10:20am	Membership Committee
10:20 – 11:00am	Finance Committee
11:00 – 11:45am	Elections Committee
12:00 – 1:00pm	Lunch
1:00 – 3:00pm	Council Meeting and Committee Reports
2:00pm	Conference Office Opens (Almendros, Ocean Tower, Mezzanine level)
3:00-6:00pm	Registration Opens (Ponce de Leon Foyer, Ocean Tower, Mezzanine level

Scientific Sessions

Wednesday, April 3, 2013

5:00-8:00pm

Opening Reception and Poster Session 1

(Brisas del Mar,Ocean Tower, Lobby level) Please have posters numbered 1-40 mounted by 4:45pm. Posters W-1 through W-40 to be presented from 5-6:20pm, and then removed. Posters W-41through W-80 to be mounted from 6:20-6:40 and presented until 8pm.

Sponsored by the Department of Surgery, University of Minnesota

Poster titles listed by assigned Poster Board Numbers

(see Journal of Neuroimmune Pharmacology for complete abstracts)

EARLY CAREER INVESTIGATOR POSTER SESSION TITLES

- W-1. COCAINE ENHANCES HIV-1 INTEGRATION IN CD4+ T CELLS BY MODULATING THE EPIGENETIC DNA SIGNATURES OF HOST GENOME. Amma, A.B. 1, Pandhare, J 1, Mantri, C.K. 1, Dash, CV 1; 1Center for AIDS Health Disparities Research, Department of Biochemistry and Cancer Biology, Meharry Medical College, Nashville, TN 37208.
- W-2. ROLE OF CYTOCHROME P450 (CYP) IN SMOKING AND ALCOHOL MEDIATED OXIDATIVE STRESS: IMPLICATIONS WITH HIV-1 PATHOGENESIS. Ande, A 1, Sinha, N 1, McArthur, C 2, Kumar, S 1; 1Division of Pharmacology & Toxicology, UMKC School of Pharmacy, Kansas, MO 641082Department of Oral Biology, UMKC School of Dentistry, Kansas, MO 64108.
- W-3. HIV-1 LTR SINGLE NUCLEOTIDE POLYMORPHISMS (SNPS) THAT CORRELATE WITH CLINICAL DISEASE PARAMETERS ARE FOUND IN BOTH THE PERIPHERAL BLOOD AND BRAIN COMPARTMENTS. Antell, G 1, Nonnemacher, M 2, Pirrone, V 2, Dampier, W 2, Aiamkitsumrit, B 2, Williams, J 2, Shah, S 2, Wojno, A 2, Passic, S 2, Blakey, B 2, Zhong, W 2, Moldover, B 4, Feng, R 5, Downie, D 3, Lewis, S 3, Jacobson, J 3, Wigdahl, B 2; 1School of Biomedical Engineering and Health Sciences, Drexel University, Philadelphia, PA 191022Microbiology and Immunology, Drexel University College of Medicine, Philadelphia, PA 191023Division of Infectious Disease and HIV Medicine, Department of Medicine, Drexel University College of Medi cine, Philadelphia, PA 191024B-Tech Consulting, LTD, B-Tech Consulting, LTD, Philadelphia, PA 191004.
- W-4. EFFECT OF METHAMPHETAMINE AND GP120 ON AUTOPHAGY IN SVGA ASTROCYTES. Cao, L 1, Kumar, S 1, Kumar, A 1; 1Division of Pharmacology and Toxicology, School of Pharmacy, University of Missouri-Kansas City, Kansas City, MO 64108.
- W-5. UPREGULATION OF THE ALPHA7-NICOTINIC ACETYLCHOLINE RECEPTOR IN A TRANSGENIC MOUSE MODEL THAT EXPRESSES THE HIV COAT PROTEIN GP120. Capó-Vélez, C.M. 1, Morales, B 1, Melendez, R. 2, Lasalde-Dominicci, J.A. 1; 1Department of Biology, University of Puerto Rico, Rio Piedras Campus, San Juan, PR 009312Department of Anatomy and Neurobiology, University of Puerto Rico, Medical Sciences Campus, San Juan, 00936.
- W-6. CXCR7, A NOVEL RECEPTOR OF CXCL12, MEDIATES MIGRATION AND SIGNALING OF NEURAL PROGENITOR CELLS IN VITRO. Chen, Q 1, Li, Y 1, Song, A 1, Zhu, B 1, Peng, H 1, Huang, Y 1, Tian, C 1, Xu, D 1, Zheng, J. C 1; 1Department of Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE 68198.
- W-7. TRANSIENT METHAMPHETAMINE-ASSOCIATED HYPERTHERMIA MODULATES ASTROCYTE TRACE AMINE ASSOCIATED RECEPTOR-1 (TAAR1) ACTIVATION AND EXACERBATES HIV-1-INDUCED NEURODEGENERATION. Cisneros, IE 1, Ghorpade, A 1; 1Cell Biology and Anatomy, University of North Texas Health Science Center at Fort Worth, Fort Worth, TX 76107.
- W-8. DOPAMINE MEDIATED CHANGES IN THE BLOOD BRAIN BARRIER AND NEUROINFLAMMATION IN THE CONTEXT OF CNS HIV INFECTION AND SUBSTANCE ABUSE. Coley, JS1, Calderon, TM1, Lopez, L1, Berman, JW1; 1Dept. of Pathology, Albert Einstein College of Medicine, Bronx, NY 10461.

- W-9. EFFECT OF GP120 IN CATHEPSIN B AND CYSTATIN B EXPRESSION IN HIV PATIENTS. Colon, K
 1, Delgado, G 2, Melendez, LM 1; 1Microbiology Department, University of Puerto Rico Medical Sciences Campus, San Juan, PR 009352Biology Department, University of Puerto Rico Rio Piedras Campus, San Juan, PR 00931.
- W-10. HIV-1 ENVELOPE GLYCOPROTEIN GP120 TRIGGERS A SENESCENCE PHENOTYPE IN CULTURED HUMAN ASTROCYTES. Crowe, EP 1, Sell, C 1, Torres, C 1; 1Dept. of Pathology and Laboratory Medicine, Drexel University College of Medicine, Philadelphia, PA 19102.
- W-11. DISRUPTION OF THE CHOLINERGIC ANTI-INFLAMMATORY RESPONSE IN THE HIV CONTEXT. Delgado-Velez, M 1, Baez-Pagan, C 1, Gerena, Y 6, Quesada, O 3, Santiago-Perez, L 1, Wojna, V 5, Melendez, L 4, Silva, W 7, Lasalde-Dominicci, J 1; 1Dept of Biology, Dept of Chemistry, Dept of Physical Sciences, University of Puerto Rico, Río Piedras Campus, San Juan, PR 009314; Dept of Microbiology and Medical Zoology, Internal Medicine, Dept of Pharmaceutical Sciences, School of Pharmacy, Dept of Physiology, Univ of Puerto Rico, Medical Sciences Campus, San Juan, PR 00936.
- W-12. GENOMIC SIGNATURE OF PPAR AGONISTS IN BRAIN AND LIVER: ROLE IN ALCOHOL CONSUMPTION. Ferguson, LB 1, Blednov, YA 1, Harris, RA 1; 1Waggoner Center for Alcohol and Addiction Research, University of Texas at Austin, Austin, TX 78712.
- W-13. INVOLVEMENT OF GLIA AND CYTOKINES IN HIV-INDUCED CHANGES OF FERRITIN HEAVY CHAIN PROTEIN EXPRESSION IN CORTICAL NEURONS. Festa, L 1, Meucci, O 1; 1Department of Pharmacology and Physiology, Drexel University College of Medicine, Philadelphia, PA 19102.
- W-14. NEONATAL ETHANOL EXPOSURE CAUSES LONG-TERM ALTERATION IN MICROGLIA SENSITIVITY AND RESPONSE TO STRESS. Franklin, T 1, Sarkar, D.K. 1; 1Endocrine Program, Rutgers University, New Brunswick, NJ 08901.
- W-15. HIV-1 VIRAL PROTEIN R (VPR) INDUCES THE PRODUCTION OF PRO-INFLAMMATORY CYTOKINES IL-6, IL -8 AND RANTES IN THE ASTROCYTES VIA DIFFERENT MECHANISMS. Gangwani, MR 1, Kumar, A 1; 1Division of Pharmacology and Toxicology, University of Missouri Kansas City, Kansas City, MO 64108.
- W-16. HIV PROTEASE INHIBITORS PROMOTE AMYLOIDOGENIC APP PROCESSING VIA PHOSPHO-EIF2A-DEPENDENT TRANSLATIONAL UPREGULATION OF BACE1. Gannon, P 1, Akay, C 1, Yee, A 1, Odeleye, A 1, Clements, J 2, Mankowski, J 2, Zink, C 2, Jordan-Sciutto, K 1; 1School of Dental Medicine, University of Pennsylvania, Philadelphia, PA 191042School of Medicine, Johns Hopkins University, Baltimore, MD 21205.
- W-17. ALCOHOL ALTERS MICROGLIA FUNCTION THROUGH P2X4 RECEPTOR SIGNALING. Gofman, L
 1, Cenna, JM 1, Potula, R 1; 1Department of Pathology and Laboratory Medicine, Temple University
 School of Medicine, Philadelphia, PA 19140.
- W-18. COCAINE REGULATES NEURONAL EXPRESSION OF RXR-F: IMPLICATIONS FOR RETINOIC ACID RESPONSIVE GENES AND NEURONAL PLASTICITY. Kovalevich, J 1, Corley, G 1, Ozdemir, AY 1, Yen, W 1, Kim, JK 1, Rawls, S 1, Langford, D 1; 1Neuroscience, Temple University School of Medicine, Philadelphia, PA 19140.
- W-19. FUNCTIONAL ADAPTATION OF NMDA RECEPTORS FOLLOWING HIV-1 TAT-INDUCED POTENTIATION. Krogh, KA1, Thayer, SA1 ; Department of Pharmacology, University of Minnesota Medical School, Minneapolis, MN 55455
- W-20. HEDGEHOG PATHWAY PLAYS A VITAL ROLE IN HIV-ASSOCIATED NEPHROPATHY. Lan, X 1, Cheng, K 1, Plagov, A 1, Chandel, N 1, Rai, P 1, Malhotra, A 1, Singhal, PC 1; 1Renal Molecular Research Laboratoy, Feinstein Institute for Medical Research, Great Neck, NY 11021.
- W-21. THE ROLE OF PI3K/AKT/CREB-1 AND JAK/STAT SIGNALING IN HIV-1 NEF-MEDIATED INCREASE OF IL-6 IN ASTROCYTES. Liu, X 1, Kumar, A 1; 1Pharmacology & Toxicology, School of Pharmacy, University of Missouri-Kansas City, Kansas City, MO 64108.
- W-22. PROTEOMIC FINGERPRINTS OF PRIMARY HUMAN ASTROCYTES TREATED WITH HIV-1 CLADE B AND C PROTEINS: ROLES OF ENDOPLASMIC RETICULUM STRESS IN NEURO-AIDS. López, SN, Rodríguez, M., Amadeo, W, Cubano, L, Alves, J, Boukli, N; Department of Microbiology and Immunology, Biomedical Proteomic Facility, Universidad Central del Caribe, Bayamón, PR 00960.

- W-23. HIV-1 NEF EXPRESSION IN RAT HIPPOCAMPUS INCREASES SMALL INTESTINE PERMEABILITY AND DECREASES OCCLUDIN TIGHT JUNCTION PROTEIN. Loucil, R 1, Isidro, RA 2, Chompre, G 1, Hernandez, S 2, Cruz, ML 2, Isidro, AA 2, Appleyard, CB 2, Noel, Jr, RJ 1; 1Department of Biochemistry, Ponce School of Medicine and Health Sciences, Ponce, PR 007162Department of Physiology and Pharmacology, Ponce School of Medicine and Health Sciences, Ponce, PR 00716.
- W-24. CHEMOKINE CXCL8 MODULATES HIV-1 REPLICATION IN HUMAN MONOCYTE-DERIVED MACROPHAGES. Mamik, MK 1, Borgmann, K 1, Ghorpade, A 1; 1Cell Biology and Anatomy, University of North Texas Health Science Center, Fort Worth, TX 76107.
- W-25. DISTINCT INDUCTION OF IL-17 ISOFORMS BY MORPHINE CONTRIBUTES TO DIFFERENTIAL BARRIER DISRUPTION IN THE SMALL INTESTINE AND COLON. Meng, J 1, Ma, J 2, Banerjee, S 2, Wang, F 1, Charboneau, R 3, Roy, S 2; 1Department of Pharmacology, University of Minnesota, Minneapolis, MN 554552Department of Surgery, University of Minnesota, Minneapolis, MN 554553Department of Surgery, Veterans Affairs Medical Center, Minneapolis, MN 55417.
- W-26. DEFICITS IN ATTENTION, A CORE COMPONENT OF EXECUTIVE FUNCTION, IN FEMALE HIV-1 TRANSGENIC RATS. Moran, L.M. 1, Booze, R.M. 1, Mactutus, C.F. 1; 1Behavioral Neuroscience Program, Department of Psychology, University of South Carolina, Columbia, SC 29208.
- W-27. INDUCTION OF IL-6 AND IL-8 CYTOKINES BY HIV-1 TAT INVOLVES A COMMON TRANSCRIPTION FACTOR NUCLEAR FACTOR-KAPPA B BUT DIFFERENT SIGNALING PATHWAYS. Nookala, A, Kumar, A; Division Pharmacology & Toxicology, UMKC School of Pharmacy, Kansas city, MO 64108.
- W-28. COCAINE ALTERS CYTOKINE SIGNATURES WITHIN PATIENTS IN THE DREXELMED HIV/AIDS GENETIC ANALYSIS COHORT. Parikh, N 1, Williams, J 1, Pirrone, V 1, Nonnemacher, M 1, Aiamkitsumrit, B 1, Passic, S 1, Blakey, B 1, Frantz, B 1, Moldover, B 2, Feng, R 3, Downie, D 4, Lewis, S 4, Jacobson, JM 4, Wigdahl, B 1; 1Microbiology and Immunology, Drexel University College of Medicine, Philadelphia, PA 191022B-Tech Consulting, Ltd, B-Tech Consulting, Ltd, Philadelphia, PA 191303Biostatistics and Epidemiology, University of Pennsylvania School of Medicine, Philadelphia, PA 191044Medicine/Division of Infectious Disease and HIV Medicine, Drexel University College of Medicine, Philadelphia, PA 19102.
- W-29. CCR5-EXPRESSING NEURONS AND GLIA AS SITES OF CONVERGENCE FOR HIV-1 TAT AND OPIOID INTERACTIONS. Podhaizer, EM 1, Zhang, Y 2, Knapp, PE 3, Hauser, KF 1; 1Dept. of Pharmacology & Toxicology; 2Dept. of Medicinal Chemistry; 3Dept. of Anatomy & Neurobiology, Virginia Commonwealth University, Richmond, VA 23298.
- W-30. PROTEOMICS APPROACH OF ALCOHOL INDUCED ER STRESS IN HUMAN MICROGLIA CELLS. Ricardo J Carrero, Yanilda Ramos, Sheila Lopez, Janaina Alves, Hiram Escobales, Madeline Rodríguez, and Nawal Boukli. Universidad Central del Caribe, Bayamón, PR 00960.
- W-31. ROLE OF DEPRESSION ON PRO-INFLAMMATORY AND OXIDATIVE STRESS RESPONSES IN HIV-INFECTED PUERTO RICANS. Rivera-Rivera Y, Toro-Rodriguez V, Cappas-Ortiz N, Rivera-Amill V; Dept. of Microbiology, and Deptt of Clinical Psychology Ponce School of Medicine & Health Sciences, Ponce, PR 00716.
- W-32. HIV-1 CLADE B ACTIVATES PRO-APOPTOTIC PROTEIN SIGNATURES IN HUMAN MICROGLIA. Rodriguez, M 1, Escobales, H 1, Lopez, SN 1, Alves, JM 1, Cubano, L 1, Boukli, NM 1; 1Biomedical Proteomic Facility, Universidad Central del Caribe, Bayamon, PR 00956.
- W-33. POLY(ADP-RIBOSE) POLYMERASE-1 (PARP) INHIBITION DECREASES HIV-1 REPLICATION IN PRIMARY HUMAN MONOCYTE-DERIVED MACROPHAGES (MDM). Rom , S 1, Reichenbach, NL 1, Persidsky, Y 1; 1Department of Pathology & Laboratory Medicine, Temple University School of Medicine, Philadelphia, PA 19046.
- W-34. PACAP27 IS A NEW NEUROPROTECTIVE COMPOUND AGAINST TAT-MEDIATED NEUROTOXICITY. Rozzi SJ, Borelli G, Ryan K, Steiner J, Palchik G, Avdoshina V, Mocchetti I; Department of Neuroscience, and the Department of Pharmacology & Physiology, Georgetown University, Washington, DC 20007; National Institute of Neurological Disorders and Stroke NINDS), National Institutes of Health, Bethesda, MD 20892.
- W-35. ANTI-APOPTOTIC ROLE OF HEXOKINASE IN HIV-1 INFECTED MACROPHAGES. Sen, S 1, Datta, PK 2, Khalili, K 2, Amini, S 1; 1Biology, Temple University, Philadelphia, PA 191212Neuroscience/ CNAC, Temple University School of Medicine, Philadelphia, PA 19140.

- W-36. INFECTION WITH ECOHIV, A NOVEL MURINE MODEL OF HIV, AND MORPHINE COMPROMISE GUT BARRIER FUNCTION AND BACTERIAL CLEARANCE. Sindberg, GM 1, Sharma, U 2, Meng, J 3, Banerjee, S 2, Volsky, D 4, Molitor, T 5, Roy, S 2; 1Comparative and Molecular Biosciences, University of Minnesota, Saint Paul, MN 551082Department of Surgery, University of Minnesota, Minneapolis, MN 554553Department of Pharmacology, University of Minnesota, Minneapolis, MN 554554Molecular Virology Division, St. Luke's-Roosevelt Hospital Center/Columbia University, New York, NY 100195Department of Veterinary Population Medicine, University of Minnesota, Saint Paul, MN 55108.
- W-37. GLIAL P2X4 RECEPTORS MEDIATE OPIOID AND HIV-1 ASSOCIATED NEURODEGENERATION. Sorrell, ME 1, Zou, S 2, Knapp, PE 2, Hauser, KF 1; 1Department of Pharmacology and Toxicology; 2Department of Anatomy and Neurobiology, Virginia Commonwealth University, Richmond, VA 23298.
- W-38. STRUCTURAL AND FUNCTIONAL ALTERATIONS IN AN IN VITRO MODEL OF THE BLOOD-BRAIN BARRIER FOLLOWING PROLONGED EXPOSURE TO MORPHINE. Strazza, M 1, Pirrone, V 1, Lin, W 2, Feng, R 2, Wigdahl, B 1, Nonnemacher, M 1; 1Microbiology and Immunology, Drexel University College of Medicine, Philadelphia, PA 191022 Biostatistics and Epidemiology, University of Pennsylvania School of Medicine, Philadelphia, PA 19104.
- W-39. ACUTE ALCOHOL INTOXICATION IS ASSOCIATED WITH SUSTAINED NEUROINFLAMMATION WITHOUT EXACERBATION OF EARLY NEUROBEHAVIORAL OUTCOMES POST TRAUMATIC BRAIN INJURY. Teng, S 1, Molina, P 1; 1Department of Physiology, Louisiana State University Health Sciences Center, New Orleans, LA 70112.
- W-40. NEUROTOXIC EFFECTS OF HIV-1 VPR EXPRESSION IN ASTROCYTES . Torres, L. and Noel Jr., RJ; Biochemistry Dept, Ponce School of Medicine & Health Sciences, Ponce, PR 00732.
- W-41. ASTROCYTE-ELEVATED GENE-1 PROTECTS HUMAN ASTROCYTES FROM OXIDATIVE STRESS-INDUCED DNA DAMAGE: A POTENTIAL SURVIVAL MECHANISM IN HAND. Vartak-Sharma, N 1, Ghorpade, A 1; 1Department of Cell Biology and Anatomy, University of North Texas Health Science Center, Fort Worth, TX 76107.
- W-42. EFFECT OF HIV-1 GP120 ON THE GLUTAMIC ACID METABOLIC SYSTEM IN HUMAN ASTROCYTES. Vázquez-Santiago, FJ 1, Meléndez, LM 2, Wojna, V 3, Noel, RJ 1, Rivera-Amill, V 1; 1Microbiology Department, Ponce School of Medicine and Health Sciences, Ponce, PR 007162Microbiology and Medical Zoology Department, University of Puerto Rico Medical Science Campus, San Juan, PR 009363Specialized Neuroscience Research Program, University of Puerto Rico Medical Science Campus, San Juan, PR 00936.
- W-43. COCAINE SELF-ADMINISTRATION POTENTIATES EXCITATORY RESPONSES OF RAT CORTICAL NEURONS TO HIV-1 TAT PROTEIN. Wayman, WN 1, Napier, TC 1, Hu, X-T 1; 1Department of Pharmacology and the Center for Compulsive Behavior and Addiction, Rush University Medical Center, Chicago, IL 60612.
- W-44. THE EFFECTS OF DOPAMINE ON CD14+CD16+ TRANSMIGRATION ACROSS THE HUMAN BLOOD BRAIN BARRIER AND ITS ROLE IN THE PATHOGENESIS OF NEUROAIDS. Williams, DW 1, Calderon, TC 1, Lopez, L 1, Morgello, S 2, Berman, JW 1; 1Pathology, Albert Einstein College of Medicine, Bronx, NY 104612Neurology, Neuroscience, Pathology, Mount Sinai Medical Center, New York, NY 10029.
- W-45. ANKYRIN-RICH MEMBRANE SPANNING PROTEIN (ARMS) PLAYS A CRUCIAL ROLE IN HIV-1 TAT-INDUCED ACTIVATION OF MICROGLIAL CELLS. Wooten, AK 1, Jackson, J 1, Kiebala, M 1, Maggirwar, SB 1; 1Department of Microbiology and Immunology, University of Rochester School of Medicine and Dentistry, Rochester, NY 14642.
- W-46. SELENOGLYCOPROTEINS SUPPRESS ADHESION OF BREAST CANCER CELLS TO HUMAN BRAIN ENDOTHELIUM VIA A MECHANISM INVOLVING NF-KB. Wrobel JK, Choi JJ, Xiao R, Kwiatkowski S, Power R, Toborek M; Department of Biochemistry and Molecular Biology, University of Miami Miller School of Medicine, Miami, FL 33136; Nutrigenomics Research Centre, Alltech, Nicholasville, KY 40356.
- W-47. SIGMA-1 RECEPTOR PROTECTS AGAINST HIV TAT-MEDIATED ER STRESS RESPONSE IN ASTROCYTE:IMPLICATION FOR HAND. Yang, L 1, Mori, M 2, Buch, S 1; 11Dept. of Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, omaha, NE 681982Dept. of Toxicology, School of Pharmacy and Pharmaceutical Sciences, Hoshi University, Tokyo, 142-8501.

- W-48. EFFECT OF COCAINE IN THE PLASMA OF HIV SEROPOSITIVE WOMEN BY 180 ISOTOPIC LABELLING. Zenon, F 1, Cruz, A 1, Melendez, L 1, Segarra, A 1, Jorge, I 2, Vazquez, J 2, Serrano, H 1; 1University of Puerto Rico Medical Sciences Campus, School of Medicine/UPR-RCM, San Juan, PR 009362Cardiovascular Proteomics Laboratory, Centro Nacional de Investigaciones Cardiovasculares/Centro de Biología Molecular "Severo Ochoa", Madrid, E-28029.
- W-49. THE INTERACTIVE ROLE OF ALCOHOL AND CANNABINOIDS ON DENDRITIC CELL FUNCTION. Agudelo, M, Yndart, A, Morrison, M, Muñoz, K, Raymond, A, Nair, MP; 1Dept. of Immunology/Institute of NeuroImmune Pharmacology, Herbert Wertheim College of Medicine, Miami, FL 33190.
- W-50. CALPAIN-MEDIATED DEGRADATION OF MDMX/MDM4 EXPRESSION CONTRIBUTES TO HIV-INDUCED NEURONAL DAMAGE. Akay, C 1, Colacurcio, D 1, Daniels, M 1, Kolson, DL 2, Jordan-Sciutto, KL 1; 1Department of Pathology, School of Dental Medicine, 2Department of Neurology, The Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA 19104.
- W-51. HIV-1 CLADE B EXPRESS NEURONAL APOPTOTIC PROTEOMIC FINGERPRINTS. Alves, JM, Carrero, RJ, Rodriguez, M, Lopez, SN, Cubano, L, Boukli, NM; Biomedical Proteomics Facility Department of Microbiology and Immunology, Universidad Central del Caribe, Bayamón, PR 00960.
- W-52. MORPHINE IMPAIRS LYSOSOMAL ACIDIFICATION LEADING TO COMPROMISED BACTERIAL KILLING. Anand, V 1, Koodie, L 2, Banerjee, S 1, Sindberg, G 3, Ma, J 1, Roy, S 1; 1Division of BTR/ Department of Surgery, 2Dentistry, Pharmacology, University of Minnesota, Minneapolis, MN 554553; Department of Veterinary Biosciences, University of Minnesota, Saint Paul, MN 55108.
- W-53. EFFECT OF NICOTINE ON SYNAPTIC PLASTICITY GENE EXPRESSION IN HIV-1 INFECTION: IMPLICATION IN HAND. Atluri, VSR 1, Sudheesh, PK 1, Samikkannu, T 1, Vijaya, P 1, Ding, H 1, Raymond, AD 1, Nair, M 1; 1Department of Immunology, Institute of NeuroImmune Pharmacology, Herbert Wertheim College of Medicine, Florida International University, Miami, FL 33199.
- W-54. CHARACTERIZATION OF SINGLE NUCLEOTIDE POLYMORPHISMS OF THE HUMAN ALPHA7 NICOTINIC RECEPTOR REVEALS ALTERATIONS IN FUNCTIONALITY AND RESPONSE TO BUPROPION: POTENTIAL IMPLICATIONS TO THE PATHOGENESIS AND TREATMENT OF HIV-ASSOCIATED NEUROCOGNITIVE DISORDERS. Báez-Pagán, C.A. 1, Aviles-Pagán, E. 1, Aponte-Santiago, N.A. 1, Holder-Viera, M. 1, Lasalde-Dominicci, J.A. 1; 1Department of Biology, University of Puerto Rico, Río Piedras Campus, San Juan, PR 00931.
- W-55. ROLE OF HIV TAT PROTEIN IN THE REGULATION OF GENE EXPRESSION IN MACROPHAGE. POSSIBLE MECHANISM IN DRUG ABUSERS. Carvallo, L 1, Fajardo, J.E 2, Berman, JW 1; 1Department of Pathology, Albert Einstein College of Medicine, Bronx, NY 104612Department of Systems and Computational Biology, Albert Einstein College of Medicine, Bronx, NY 104613Department of Microbiology and Immunology, Albert Einstein College of Medicine, Bronx, NY 104613
- W-56. POTENTIAL PROTECTIVE ROLE OF THE TIGHT JUNCTION PROTEIN OCCLUDIN AGAINST HIV-1 INFECTION OF PERICYTES . Castro, V 1, Lüthen, M 2, Toborek, M 1; 1Biochemistry and Molecular Biology, University of Miami. Miller School of Medicine, Miami, FL 33136 2Department of Biology, Freie Universität-Berlin, Berlin, 14195.
- W-57. REPEATED COCAINE ADMINISTRATION EXACERBATED HIV-1 TAT-MEDIATED CORTICAL EXCITABILITY VIA OVER-ACTIVATING L-TYPE CALCIUM CHANNELS. Chen, L 1, Napier, TC 1, Hu, X-T 1; 1Dept. of Pharmacology and Center for Compulsive Behavior and Addiction, Rush University Medical Center, Chicago, IL 60612.
- W-58. HUMAN PRIMARY ASTROCYTES EXPRESS CD99: POTENTIAL ROLE IN HIV BRAIN INFECTION. Daep, CA 1, Eugenin, E 1; 1Public Health Research Institute, University of Medicine and Dentistry of New Jersey, Newark, NJ 07107.
- W-59. MECHANISM FOR ACCELERATED NEUROPATHOGENESIS IN DRUG ABUSE/HIV MODEL: ROLE OF SYSTEMIC INFECTION AND TOLL -LIKE RECEPTORS. Dutta, Raini 1, Roy, Sabita 1; 1Department of Surgery, University of Minnesota, Minneapolis, MN 55455.
- W-60. HIV-1 VIRAL PROTEINS DISRUPT NEURON AUTOPHAGY FUNCTION AND AUTOPHAGOSOME FORMATION: MECHANISMS IN HIV-ASSOCIATED NEUROCOGNITIVE DISORDERS. Fields, J 1, Dumaop, W 1, Adame, A 1, Masliah, E 1; 1Department of Pathology, University of San Diego, California, La Jolla, CA 92093.

- W-61. PLATELET ACTIVATION BY COCAINE IN HIV PATIENTS INVOLVES IKK. Kiebala, M 1, Singh, M 1, Maggirwar, SB 1; 1Department of Microbiology and Immunology, University of Rochester School of Medicine and Dentistry, Rochester, NY 14642.
- W-62. IN VITRO AND IN VIVO EXPOSURE TO COCAINE ENHANCES HIV INFECTION IN QUIESCENT T CELLS. Kim SG1, Dixit D2, Jung J2, Rovner RJ2, Zack JA1,2, Baldwin GC1, Vatakis DN1; 1Department of Medicine, Division of Hematology and Oncology, 2Department of Microbiology, Immunology and Molecular Genetics, David Geffen School of Medicine at UCLA, Los Angeles, CA 90095.
- W-63. MORPHINE DISRUPTS LEUKOCYTE ENDOTHELIAL TRANS-CELLULAR MIGRATION. Koodie, L 1, Roy, S 2; 1Dentistry, Pharmacology, University of Minnesota, School of Medicine, Minneapolis, MN 554552Division of Basic Translational Research, Department of Surgery, University of Minnesota, Minneapolis, MN 55446.
- W-64. METHAMPHETAMINE MODULATES ANTI-HIV-1 MIRNA EXPRESSION TO REGULATE HIV-1 REPLICATION IN CD4+ T CELLS AND MACROPHAGES. Mantri, CK 1, Velamarti Mantri, J 1, Pandhare Dash, J 1, Dash, CV 1; 1CAHDR, Meharry Medical College, Nashville, TN 37208.
- W-65. INSOMNIA CORRELATES WITH IMMUNE DYSREGULATION BUT NOT WITH HCT/OX SYSTEM DYSFUNCTION IN HIV-INFECTED WOMEN. Menéndez-Delmestre, R 1, López, R 2, Matos, M 1, Skolasky, RL 3, Vélez, J 1, Ginebra, T 1, Wojna, V 1; 1NeuroAIDS Program, .2Division of Neurology, Univ. of Puerto Rico, Medical Sciences Campus, San Juan, PR 009353Department of Orthopaedics, Johns Hopkins University, Baltimore, MD 21287.
- W-66. T-CELL RECONSTITUTION DURING MURINE ACQUIRED IMMUNODEFICIENCY SYNDROME (MAIDS) PRODUCES NEUROINFLAMMATION AND MORTALITY IN ANIMALS HARBORING OPPORTUNISTIC VIRAL BRAIN INFECTION. Mutnal, MB 1, Schachtele, SJ 1, Hu, S 1, Lokensgard, JR 1; 1Neuroimmunology Laboratory, Center for Infectious Diseases and Microbiology Translational Research, University of Minnesota, Minneapolis, MN 55455.
- W-67. CLASS I HISTONE DEACETYLASES AND A LYSINE-SPECIFIC HISTONE METHYLTRANSFERASE, SUV39H1, PROMOTE HIV LATENCY IN ASTROCYTES. Narasipura, SD 1, Min, S 1, Al-Harthi, L 1; 1Department of Immunology/Microbiology, Rush University, Chicago, IL 60612.
- W-68. METHAMPHETAMINE-INDUCED INCREASES IN PLASMA AMMONIA PRODUCE NEUROINFLAMMATION AND BLOOD-BRAIN BARRIER DISRUPTION. Northrop, NA1, Halpin, LE1, Yamamoto, BK 1; 1Dept. of Neurosciences, Univ. of Toledo College of Medicine, Toledo, OH 43614.
- W-69. NEUROINFLAMMATION IN YOUNG ADULT HIV-1 TRANSGENIC RATS. Persons, AL 1, Chen, L 1, Wayman, WN 1, Hu, X-T 1, Napier, TC 1; 1Department of Pharmacology and Center for Compulsive Behavior and Addiction, Rush University Medical Center, Chicago, IL 60612.
- W-70. COCAINE DOWNREGULATES SAHMD1 EXPRESSION AND FACILITATES HIV-1 INFECTION IN ASTROCYTES. Pilakka-Kanthikeel, S 1, Raymond, S 1, Atluri, V 1, Nair, M 1; 1Department of Immunology, Institute of NeuroImmune Pharmacology, Herbert Wertheim College of Medicine, Florida International University, Miami, FL 33199.
- W-71. MEDIUM SPINY NEURONS IN THE NUCLEUS ACCUMBENS OF HIV-1 TRANSGENIC FEMALE RATS: DIOLISTIC ASSESSMENT OF SYNAPTODENDRITIC ALTERATIONS. Roscoe, RF, Mactutus, CF, Booze, RM; Dept. of Psychology, University of South Carolina, Columbia, SC 29208.
- W-72. PERSISTENT CD8 T CELLS HINDERS NEUROGENESIS DURING HERPES SIMPLEX ENCEPHALITIS. Rotschafer, JH 1, Roach, E 1, Cheeran , MCJ 1; 1Veterinary Population Medicine, University of Minnesota, St. Paul , MN 55108.
- W-73. MAGNETIC-NANOFORMULATION OF M-OPIOID RECEPTOR ANTAGONIST (CTOP) FOR TREATMENT OF MORPHINE-INDUCED NEUROPATHOGENESIS IN HIV INFECTION. Sagar, Vidya 1, Pilakka-Kanthikeel, S. K. 1, Priestap, H. 2, Atluri, V. S. R. 1, Ding, H. 1, Guduru, R. 1, Khizroev, S. 1, Nair, M.P. 1; 1Center for Personalized Nanomedicine, Institute of NeuroImmune Pharmacology, Department of Immunology, Herbert Wertheim College of Medicine, Florida International University, Miami, FL 331992Department of Biological Sciences, College of Arts and Sciences, Florida International University, Miami, FL 33199.

- W-74. DIFFERENTIAL INDUCTION OF POST-ENCEPHALITIC REGULATORY T-CELLS BY DISTINCT BRAIN CELL POPULATIONS. Schachtele, SJ 1, Mutnal, MB 1, Hu, S 1, Lokensgard, JR 1; 1Center for Infectious Disease & Microbiology Translational Research, Univ. of Minnesota, Minneapolis, MN 55407.
- W-75. A MURINE MODEL OF HIV RECAPITULATE KEY FEATURES OF HIV-1 INFECTION IN THE CONTEXT OF OPIOID ABUSE. Sharma, U 1, Banerjee, S 1, Sindberg, G 2, Charboneau, R 3, Volsky, DJ 4, Roy, S 1; 1Department of Surgery, University of MInnesota, Minneapolis, MN 554552Comparative and Molecular Biosciences, University of MInnesota, Minneapolis, MN 554553Department of Surgery, Veterans Affairs Medical Center, Minneapolis, MN 554174Molecular Virology Division, St. Luke's-Roosevelt Hospital Center, New York, NY 10019.
- W-76. ADOLESCENT BINGE DRINKING PERSISTENTLY INCREASES NEUROIMMUNE SIGNAL EXPRESSION IN THE ADULT PREFRONTAL CORTEX. Vetreno, R.P. 1, Qin, L. 1, Crews, F.T. 1; 1Bowles Center for Alcohol Studies, School of Medicine, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599.
- W-77. GLUTAMINASE 1 IS ESSENTIAL FOR THE SURVIVAL, DIFFERENTIATION, AND PROLIFERATION OF NEURAL PROGENITOR CELLS. Wang, Y 1, Huang, Y 1, Zhao, L 1, Li, Y 1, Zheng, J 1; 1Dept of Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE 68105.
- W-78. HEPATITIS C VIRUS IMPAIRS TOLL-LIKE RECEPTOR-3 SIGNALING AND INHIBITS IFN-LAMBDA 1 EXPRESSION IN HUMAN HEPATOCYTES. Wang, Y.Z. 1, Li, J.L. 1, Wang, X. 1, Ye, L. 1, Zhou, Y. 1, Thomas, R.M. 1, Ho, W.Z. 1; 1Department of Pathology and Laboratory Medicine, Temple University School of Medicine, Philadelphia, PA 19140.
- W-79. EXERCISE MODULATES REDOX-SENSITIVE SMALL GTPASE ACTIVITY IN THE BRAIN MICROVASCULATURE IN A MODEL OF BRAIN METASTASIS FORMATION. Wolff, G 1, Park, M 1, Andras, IE 1, Kim, HJ 1, Toborek, M 1; 1Biochemistry and Molecular Biology, Univ. of Miami, FL 33136.
- W-80. ANTI-INFLAMMATORY EFFECT OF DEXAMETHASONE -HPMA COPOLYMER IN A MURINE MODEL OF HIV-1 ENCEPHALITIS. Zhao, L1, Huang, Y1, Wang, D2, Zheng, J.C1; 1Dept. of Pharmacology & Experimental Neuroscience; 2Dept. of Pharmaceutical Sciences, College of Pharmacy, Univ. of Nebraska Medical Center, Omaha, NE 68198.

Please remember to take down all posters after the session.

Thursday, April 4, 2013

All sessions held in Ponce de Leon Rooms A/C, Ocean Tower, Mezzanine level unless otherwise listed.
Continental Breakfast for Conference Registrants (Ponce de Leon Foyer)
INTRODUCTION TO THE MEETING
Welcome from the Society on NeuroImmune Pharmacology Sabita Roy Ph.D SNIP President (University of Minnesota, Minneapolis)
PLENARY LECTURE 1: Benjamin Chen, M.D., Ph.D Mount Sinai School of Medicine, NY.
2009 Avant-Garde Award for Innovative HIV-AIDS Research Title: Visualizing HIV dissemination through virological synapses.
Introduction by Dr. Chandravanu Dash PhD. – Meharry Medical College School or Medicine, Nashville, Tennessee
SYMPOSIUM #1: Neuroimmune Activation by Alcohol, Drugs and/or AIDS Contributes to Addiction Neurobiology
Co-Chairs: Fulton Crews, Ph.D.– UNC Medical School, Chapel Hill, NC Changhai Cui, Ph.D.– NIAAA, NIH, Bethesda, MD

8:55-9:00am	Introductory Remarks: Changhai Cui, Ph.D NIAAA, NIH, Bethesda, MD
9:00-9:25am	Lecture 1: Dr. Fulton T. Crews- UNC Medical School, Chapel Hill, NC Title: Ethanol activates HMGB1/TLR-RAGE Signaling inducing innate immune genes in brain.
9:25-9:50am	Lecture 2: Dr. Dipak Sarkar- Rutgers University, New Brunswick, NJ Title: Microglial mediation of alcohol programming of the neuroendocrine-stress axis influencing alcohol-drinking behavior.
9:50-10:15am	Lecture 3: Dr. R. Adron Harris, Ph.D Waggoner Center, University of Texas Title: Neuroimmune regulation of alcohol consumption, opportunities for therapeutics?
10:15-10:40am	Lecture 4: Dr. Mark Hutchinson, PhD- School of Med. Sciences, University of Adelaide Title: The proinflammatory hypothesis of addiction: clinical and preclinical evidence
10:40-10:50am	Coffee Break
10:50-11:15am	Lecture 5: Dr. Sietse Jonkman, Ph.D., Scripps Research Inst., Jupiter, FL Title: miRNA132 promotes cocaine addiction through NFkB signaling
11:15-11:20am	Concluding Remarks Sulie L. Chang, PhD, Seton Hall University
11:20-11:50am	PLENARY LECTURE 2: Thirumala-Devi Kanneganti, Ph.D St. Jude Children's Research Hospital
	Title of talk: Mediators of Inflammatory Responses
	Title of talk: Mediators of Inflammatory Responses Introduction: Dr. Prasun Datta, Ph.D Temple University, Philadelphia
11:50-12:55pm	
11:50-12:55pm 11:50-12:55pm	Introduction: Dr. Prasun Datta, Ph.D Temple University, Philadelphia
	Introduction: Dr. Prasun Datta, Ph.D Temple University, Philadelphia Meet the Mentors Luncheon (Ponce de Leon B)
11:50-12:55pm	 Introduction: Dr. Prasun Datta, Ph.D Temple University, Philadelphia Meet the Mentors Luncheon (Ponce de Leon B) Lunch on your own (for those not attending Meet the Mentors Lunch) SNIP Annual Business Meeting (Ponce de Leon A/C) All Society Members Welcome ECITA should attend. All trainee members of SNIP highly encouraged to participate.
11:50-12:55pm 1:00-2:00 pm	 Introduction: Dr. Prasun Datta, Ph.D Temple University, Philadelphia Meet the Mentors Luncheon (Ponce de Leon B) Lunch on your own (for those not attending Meet the Mentors Lunch) SNIP Annual Business Meeting (Ponce de Leon A/C) All Society Members Welcome ECITA should attend. All trainee members of SNIP highly encouraged to participate. Prizes will be given by raffle to those in attendance. SYMPOSIUM II: Emerging Trends in Substance Abuse, HIV Infection and
11:50-12:55pm 1:00-2:00 pm	 Introduction: Dr. Prasun Datta, Ph.D Temple University, Philadelphia Meet the Mentors Luncheon (Ponce de Leon B) Lunch on your own (for those not attending Meet the Mentors Lunch) SNIP Annual Business Meeting (Ponce de Leon A/C) All Society Members Welcome ECITA should attend. All trainee members of SNIP highly encouraged to participate. Prizes will be given by raffle to those in attendance. SYMPOSIUM II: Emerging Trends in Substance Abuse, HIV Infection and Neuropathogenesis Co-Chairs: Kelly Jordan-Sciutto, Ph.D University of Pennsylvania
11:50-12:55pm 1:00-2:00 pm 2:00-4:30 pm	 Introduction: Dr. Prasun Datta, Ph.D Temple University, Philadelphia Meet the Mentors Luncheon (Ponce de Leon B) Lunch on your own (for those not attending Meet the Mentors Lunch) SNIP Annual Business Meeting (Ponce de Leon A/C) All Society Members Welcome ECITA should attend. All trainee members of SNIP highly encouraged to participate. Prizes will be given by raffle to those in attendance. SYMPOSIUM II: Emerging Trends in Substance Abuse, HIV Infection and Neuropathogenesis Co-Chairs: Kelly Jordan-Sciutto, Ph.D University of Pennsylvania Thomas Rogers, Ph.D Temple University, Philadelphia, PA
11:50-12:55pm 1:00-2:00 pm 2:00-4:30 pm	Introduction: Dr. Prasun Datta, Ph.D Temple University, Philadelphia Meet the Mentors Luncheon (Ponce de Leon B) Lunch on your own (for those not attending Meet the Mentors Lunch) SNIP Annual Business Meeting (Ponce de Leon A/C) All Society Members Welcome ECITA should attend. All trainee members of SNIP highly encouraged to participate. Prizes will be given by raffle to those in attendance. SYMPOSIUM II: Emerging Trends in Substance Abuse, HIV Infection and Neuropathogenesis Co-Chairs: Kelly Jordan-Sciutto, Ph.D University of Pennsylvania Thomas Rogers, Ph.D Temple University, Philadelphia, PA

2:50-3:15pm	Lecture 3: Lena Al-Harthi, Ph.D Rush University, Chicago
	Title: Astrocytes and NeuroAIDS: The Wnt/ β -catenin connection in virus/host interaction and neuropathogenesis
3:15-3:25pm	Coffee Break
3:25 – 3:50pm	Lecture 4: Shilpa Buch, Ph.D University of Nebraska
	Title: HIV and Morphine mediated regulation of neuronal dysfunction: blaming the Messenger
3:50-4:15pm	Lecture 5: Joan Berman, Ph.D Albert Einstein College of Medicine, Bronx, NY
	Title: Dopamine mediated neuroinflammation and CNS damage in the context of HIV infection: A common mechanism of drugs of abuse
4:15-4:30pm	Lecture 6: Santanu Banerjee. Ph.D University of Minnesota
	Title: Morphine attenuation of LPS tolerance-Role of miRNA
4:35 – 7:35 pm	Poster Session 2 (Brisas del Mar,Ocean Tower, Lobby level) (Coffee Break during Poster Session) Please have posters numbered 1-40 mounted by 4:00pm. Posters T-1 through T-40 to be presented from 4:35-5:55pm, and then removed. Posters T-41 through T-75 to be mounted at 6pm and presented until 7:35pm.

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

GENERAL POSTER SESSION TITLES

- T-1. LONG-TERM HIV-1 INFECTION OF HUMANIZED MICE LEADS TO BEHAVIORAL ABNORMALITIES. Akhter, S 1, Epstein, A 1, Poluektova, L 1, Gendelman, HE 1, Gorantla, S 1; 1Department of Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE 68198.
- T-2. HUMAN NEUROGENESIS IN NSG MICE FOR HAND PATHOGENESIS STUDIES. Akhter, SA, Knibbe, J, Wu, L, Li, Y, Peng, H, Gorantla, S, Poluektova, LY; Univ. of Nebraska Medical Center, Department of Pharmacology and Experimental Neuroscience, Omaha, NE 68198.
- T-3. FORMATION OF D1/NMDA RECEPTOR COMPLEXES MEDIATES HIV-1 PROTEINS+METH SYNAPTODENDRITIC INJURY. Aksenova, M.V. 1, Mactutus, C.F. 1, Booze, R.M. 1; 1Psychology Department, University of South Carolina, Columbia, SC 29208.
- T-4. HIV-1 INDUCED AMYLOID BETA ACCUMULATION IN BRAIN ENDOTHELIAL CELLS. Andras IE, Toborek M; Department of Biochemistry and Molecular Biology, University of Miami School of Medicine, Miami, FL 33136.
- T-5. HIV INTERACTS WITH NEURONAL TUBULIN: A MECHANISM FOR MICROTUBULAR NETWORK IMPAIRMENT?. Avdoshina, V 1, Sahab, ZJ 2, Rozzi, SJ 3, Lim, ST 1, Mocchetti, I 1; 1Department of Neuroscience, Georgetown University Medical Center, Washington, DC 200572Department of Molecular Oncology, Georgetown University Medical Center, Washington, DC 200573Interdisciplinary Program in Neuroscience, Georgetown University Medical Center, Washington, DC 20057.
- T-6. MANGANESE ENHANCED MAGNETIC RESONANCE IMAGING (MEMRI) REFLECTS HUMAN NEUROPATHOLOGY IN A MURINE MODEL OF HIV-1 ASSOCIATED NEUROCOGNITIVE DISORDERS (HAND). Bade, AN 1, Gorantla, S 1, Poluektova, LY 1, Makarov, E 1, Gendelman, HE 1, Boska, MD 2, Liu, Y 2; 1Department of Pharmacology and Experimental Neuroscience, University of

Nebraska Medical Center, Omaha, Omaha, NE 681982Department of Radiology, University of Nebraska Medical Center, Omaha, Omaha, NE 68198.

- T-7. WITHAFERIN A INHIBITS IL-1BETA MEDIATED INDUCTION OF MIR-146A EXPRESSION IN HUMAN ASTROCYTES BY DOWN-REGULATING NF-KB SIGNALING. Banerjee, S 1, Datta, P.K 1; 1Department of Neuroscience/ Center for Neurovirology, Temple University School of Medicine, Philadelphia, PA 19140.
- T-8. HIV-1 TAT/COCAINE-INDUCED SYNAPTODENDRITIC INJURY IS PREVENTED BY ESTROGENIC COMPOUNDS. Bertrand, SJ 1, Aksenova, MV 1, Mactutus, CF 1, Booze, RM 1; 1Psychology Department, University of South Carolina, Columbia, SC 29208.
- T-9. ROLE OF IL-1 SIGNALING IN REGULATION OF BEHAVIORAL EFFECTS OF ETHANOL AND BENZODIAZEPINES. Blednov YB, Harris RA; Waggoner Center for Alcohol and Addiction Research, University of Texas, Austin, TX 78712.
- T-10. HISTONE DEACETYLASE DEREGULATION IN HIV-1-INFECTED MACROPHAGES EXPOSED TO METHAMPHETAMINE. Burns, AC 1, Olszowy, P 1, Ciborowski, P 1; 1Pharmacology & Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE 68198.
- T-11. DOPAMINE INCREASES CD14+CD16+ MONOCYTE TRANSMIGRATION ACROSS THE BBB. Calderon, TM 1, Lopez, L 1, Williams, DW 1, Gaskill, PJ 1, Eugenin, EA 2, Berman, JW 1; 1Department of Pathology, Albert Einstein College of Medicine, Bronx, NY 104612Public Health Research Institute (PHRI) and Department of Immunology and Molecular Genetics, University of Medicine and Dentistry of New Jersey, Newark, NJ 07103.
- T-12. CHRONIC MORPHINE PREVENTS GP120-MEDIATED CELL DEATH BY ALTERING THE PROBDNF PROCESSING. Campbell, L 1, Passeri, E 1, Mocchetti, I 1, Bachis, A 1; 1Department of Neuroscience, Georgetown University, Washington, DC 20057.
- T-13. POTENTIAL PROTECTIVE ROLE OF THE TIGHT JUNCTION PROTEIN OCCLUDIN AGAINST HIV-1 INFECTION OF PERICYTES. Castro, V 1, Lüthen, M 2, Toborek, M 1; 1Biochemistry and Molecular Biology, University of Miami. Miller School of Medicine, Miami, FL 33136 2Department of Biology, Freie Universität-Berlin, Berlin, 14195.
- T-14. MORPHINE-INDUCED EIPIGENETIC FACTORS PROMOTE MACROPHAGE APOPTOSIS VIA ACTIVATION OF THE RENIN ANGIOTENSIN SYSTEM. Chandel, N 1, Malhotra, A 1, Singhal, PC 1; 1Hofstra University, North-Shore Long-Island Jewish Medical Health system, Great Neck, NY 11021.
- T-15. NEURAL STEM CELL PROLIFERATION IS MODULATED BY DIFFERENTIAL FGF-2 EXPRESSION DURING EXPERIMENTAL HERPES SIMPLEX ENCEPHALITIS. Cheeran M C-J, Rotschafer JH, Hu S, Low WC; Veterinary Population Medicine, University of Minnesota, St. Paul, MN 55108; Center for Infectious Diseases and Microbiology Translational Research, Department of Medicine, and Department of Neurosurgery and Stem Cell Institute, University of Minnesota, Minneapolis, MN 55455.
- T-16. CXCR7, A NOVEL RECEPTOR OF CXCL12, MEDIATES MIGRATION AND SIGNALING OF NEURAL PROGENITOR CELLS IN VITRO. Chen, Q 1, Li, Y 1, Song, A 1, Zhu, B 1, Peng, H 1, Huang, Y 1, Tian, C 1, Xu, D 1, Zheng, J. C 1; 1Department of Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE 68198.
- T-17. POST-TRANSLATIONAL MODIFICATIONS OF HISTONE H4 IN HUMAN IMMUNODEFICIENCY VIRUS-1 INFECTED HUMAN MACROPHAGES EXPOSED TO METHAMPHETAMINE AND ANTIRETROVIRAL DRUGS. Ciborowski P, Burns A, Olszowy PP; Department of Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE 68198-5800.
- T-18. IMPACT OF SUBSTANCE ABUSE ON HIV-1 LTR SINGLE NUCLEOTIDE POLYMORPHISMS (SNPS) AND DISEASE PROGRESSION IN A CLINICAL COHORT. Dampier, W 1, Nonnemacher, M 1, Pirrone,

V 1, Williams, J 1, Aiamkitsumrit, B 1, Wojno, A 1, Passic, S 1, Blakey, B 1, Zhong, W 1, Moldover, B 3, Feng, R 4, Downie, D 2, Lewis, S 2, Jacobson, J 2, Wigdahl, B 1; 1Dept. of Microbiology and Immunology, Drexel University College of Medicine, Philadelphia, PA 191022Division of Infectious Disease and HIV Medicine, Dept. of Medicine, Drexel University College of Medicine, Philadelphia, PA 191023B-Tech Consulting, LTD, B-Tech Consulting, LTD, Philadelphia, PA 191304Dept. of Biostatistics and Epidemiology, University of Pennsylvania School of Medicine, Philadelphia, PA 19104.

- T-19. ROLE OF EPIGENETICS IN ASTROCYTIC EAAT2 GENE EXPRESSION BY IL-1 BETA. Datta, P 1; 1Neuroscience, Temple University School of Medicine, Philadelphia, PA 19140.
- T-20. HIV-TAT AND COCAINE MEDIATED DOWN-REGULATION OF BMP RECEPTOR AXIS IN PULMONARY ARTERIAL SMOOTH MUSCLE CELLS: IMPLICATIONS FOR HIV-PAH. Dhillon NK, Dalvi P, O'Brien-Ladner A; Internal Medicine, University of Kansas Medical Center, Kansas City, KS 66160.
- T-21. DUAL MECHANISM ENHANCED BBB CROSSING BY TRANSFERRIN CONJUGATED FLUORESCENT MAGNETIC LIPOSOME. Ding H, Agudelo M, Kanthikeel SP, Guduru R, Sagar V, Atluri V, Thangavel S, Nair MN; Department of Immunology, Florida International University, Miami, FL 33199.
- T-22. ROLE OF CYP2A6 IN NICOTINE METABOLISM STUDIED USING NEWLY DEVELOPED LC-MS/MS-SPE METHOD IN HIV-1 MODELS MONOCYTES AND ASTROCYTES, AND PLASMA FROM HIV-INFECTED SMOKERS. Earla, R 1, Ande, A 1, Mitra, AK 1, Kumar, A 1, Kumar, S 1; 1University of Missori-Kansas City, UNKC School of Pharmacy, Kansas City, MO 64108.
- T-23. NEUROPROTECTIVE ROLE OF PHOSPHODIESTERASE INHIBITOR IBUDILAST ON NEURONAL CELL DEATH INDUCED BY HIV-1 AND MORPHINE ACTIVATED GLIA. EI-Hage, N 1, Zou, S 2, Snyder, S 1, Podhaizer, EM 1, Beardsley, PM 1, Knapp, PE 2, Hauser, KF 1; 1Department of Pharmacology and Toxicology, Virginia Commonwealth University, Richmond, VA 232982Department of Anatomy and Neurobiology, Virginia Commonwealth University, Richmond, VA 23298.
- T-24. METHAMPHETAMINE ALTERS GAP JUNCTIONAL COMMUNICATION BETWEEN NEURONS AND ASTROCYTES: POTENTIAL ROLE IN CNS COMPROMISE AND DRUG DEPENDENCY. Eugenin E, Nosanchuck J, Martinez L, Castellano P; Microbiology and Molecular Genetics, and the Public Health Research Institute, UMDNJ, Newark, NJ 07103; Department of Biomedical Sciences, Albert Einstein College of Medicine (Long Island University-Post, Brookville, NY) Bronx, NY 10461
- T-25. HIV INFECTION OF ASTROCYTES INCREASED RELEASE OF DICKKOF-1 (DKK1) PROTEIN BY A HEMICHANNEL-DEPENDENT MECHANISM. Eugenin, E 1, Orellana, JA 2, Saez, JC 2, Bennett, M 3, Berman, J 3, Morgello, S 4; 1Microbiology and Molecular genetics, Public Health Research Institute (PHRI)/UMDNJ, Newark, NJ 071032Physiology, Pontificia Univ Catolica de Chile, Santiago, 3Albert Einstein College of Medicine, Bronx, NY 104614neurology, Mount Sinai, NY, NY 10010.
- T-26. EXPOSURE TO FLAME RETARDANT BDE-47 INDUCES OCCLUDIN DISRUPTION AND VCAM-1 EXPRESSION IN HUMAN BRAIN ENDOTHELIAL CELLS. Eum, SY 1, Choi, JJ 1, Andra, IE 1, Park, M 1, Toborek, M 1; 1Department of Biochemistry & Molecular Biology, University of Miami Miller School of Medicine, Miami, FL 33136.
- T-27. ACTIVATION OF MACROPHAGE DOPAMINE RECEPTORS MAY EXACERBATE HAND BY INCREASING HIV ENTRY INTO MACROPHAGES AND ALTERING MACROPHAGE FUNCTIONS. Gaskill, PJ, Berman, JW Dept of Pathology, Albert Einstein College of Medicine, Bronx, NY 10461.
- T-28. ANGIOTENSIN II AND IV IN GLUCOSE TOLERANCE AND OXIDATIVE STRESS OF HUMAN NEURONAL CELLS. Gerena, Y 1, Sierra, J 2, Sánchez-Courtney, Y 3, Méndez, J 4, Pérez, S 2, Hilera, C 2, Wojna, V 5; 1Pharmaceutical Sciences Dept., University of Puerto Rico, Medical Sciences Campus, San Juan, PR 009362Rio Piedras Campus, University of Puerto Rico, Rio Piedras, PR 009313Medicine, San Juan Bautista, Caguas, PR 007254Earth Institute, Columbia University, New

York, NY 100275Neurology Division, University of Puerto Rico, Medical Sciences Campus, San Juan, PR 00936.

- T-29. POTENTIAL ROLE OF GP120 IN HIV-INDUCED AIRWAY MUCUS FORMATION AND LUNG DISEASE. Gundavarapu, S 1, Mishra, N.C. 1, Singh, S.P. 1, Langley, R.J. 1, Buch, S 2, Sopori, M.L 1; 1Respiratory Immunology Division, Lovelace Respiratory Research Institute, Albuquerque, NM 8710822Department of Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE 68198.
- T-30. MODULATION OF HUMAN CD4 AND CD8 T CELLS CELL CYCLE ENTRY AND PROGRESSION TO METHAMPHETAMINE. Haldar, B 1, Cenna, J M 1, Potula, R 1; 1Department of Pathology and Laboratory Medicine, Temple University School of Medicine, Philadelphia, PA 19140.
- T-31. METHAMPHETAMINE (METH) MEDIATED IMMUNE DYSREGULATION IN AN ANIMAL MODEL OF CHRONIC VIRAL INFECTION. Haldar, B 1, Cenna, JM 1, Gofman, L 1, Potula, R 1; 1Department of Pathology and Laboratory Medicine, Temple University School of Medicine, Philadelphia, PA 19140.
- T-32. MECHANISMS OF CEREBRAL HEMORRHAGIC LESIONS IN DRUG ABUSE NEUROAIDS. Haorah, J 1, Abdul Muneer, PM 1, Szlachetka, A 1; 1University of Nebraska Medical Center, Omaha, NE, Neurovascular Oxidative Injury Laboratory, Dept. of Pharmacology and Experimental Neuroscience, Omaha, NE 68198-5215.
- T-33. EXOSOME-MEDIATED SHUTTLING OF MICRORNA-29 REGULATES HIV TAT AND MORPHINE-MEDIATED NEURONAL DYSFUNCTION. Hegde R1, Callen S2, Hu G2,Yao H2, Chaudhuri AD2, Duan M2, Yelamanchili SV2, Wen H2, Cheney PD1, Fox HS2,Buch S1,2. 1Department of Molecular and Integrative Physiology, University of Kansas Medical Center, Kansas City, Kansas 66160, USA; 2Department of Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE 68198.
- T-34. DAMAGE CONTROL IN VIVO: NEUROPROTECTIVE LIPOCALIN-2 IS UPREGULATED IN BRAINS OF HIV-1/GP120-TRANSGENIC MICE. Hoefer, M. M. 1, Maung, R. 1, De Rozieres, C. M. 1, Dowling, C. C. 1, Catalan, I. C. 1, Sanchez, A. B. 1, Kaul, M. 1; 1Infectious and Inflammatory Disease Center, Sanford-Burnham Medical Research Institute, La Jolla, CA 92037.
- T-35. BRAIN CELLS MODULATE ENCEPHALITOGENIC T-CELL RESPONSES VIA PD-1: PD-L1. Hu S, Schachtele SJ, Mutnal MB, Sheng WS, Lokensgard JR; Center for Infectious Diseases and Microbiology Translational Research, University of Minnesota, Minneapolis, MN 55455.
- T-36. OPIATES DEACTIVATE REDOX-SENSITIVE STRESS RESPONSE PROGRAM IN T CELLS. Husain, M 1, Rehman, S 2, Chandel, N 2, Lan, X 2, Malhotra, A 2, Singhal, PC 2; 1Department of Biotechnology, Jamia Millia Islamia, New Delhi, 1100252Feinstein Institute for Medical Research, Hofstra North Shore LIJ Medical School, Great Neck, NY 11021.
- T-37. REGULATION OF CYTOCHROME P450 2E1 EXPRESSION BY ETHANOL: ROLE OF OXIDATIVE STRESS-MEDIATED PKC/JNK/SP1 PATHWAY. Jin, M1, Ande, A1, Kumar, A1, Kumar, S1; 1Division of Pharmacology and Toxicology, Univ. of Missouri-Kansas City, Kansas City, MO 64108.
- T-38. E2F1 AT THE SYNAPSE: NOVEL FUNCTIONS FOR A CELL CYCLE TRANSCRIPTION FACTOR IN A NON-CELL CYCLE CONTEXT. Jordan-Sciutto KL, Ting JH, Schleidt S, Wu J, Marks, DR; Department of Pathology/Dental Medicine, University of Pennsylvania, Philadelphia, PA 19104.
- T-39. THE ROLE OF CELL CYCLE PROTEIN E2F1 IN HIV-INDUCED NEUROTOXICITY. Jordan-Sciutto, KL 1, Zyskind, JW 1, Wang, Y 1, Akay, C 1, Kolson, DL 2; 1Department of Pathology/Dental Medicine, 2Department of Neurology/Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA 19104.

- T-40. MAGNETO-ELECTRIC NANOPARTICLES FOR NON-INVASIVE BRAIN STIMULATION. Khizroev, S. 1, Yue, K. 1, Guduru, R. 1, Liang, P. 2, Hong, J. 1, Nair, M. 1; 1Center for Personalized NanoMedicine/Institute of Neuro-Immune Pharmacology/Department of Immunology, Herbert Wertheim College of Medicine/Florida International University, Miami, FL 331992Department of Electrical Engineering, University of California, Riverside, CA 92521.
- T-41. VOLUNTARY EXERCISE REDUCES THE EFFECTS OF METHAMPHETAMINE ON THE EXPRESSION OF MULTIDRUG REGISTANCE TRANSPORTERS IN BRAIN ENDOTHELIUM. Kim, HJ 1, Zhang, B 1, Park, M 1, Toborek, M 1; 1Biochemistry and Molecular Biology, University of Miami, Miami, FL 33136.
- T-42. CYTOKINE PROFILES IN ANTIRETROVIRAL TREATED MACROPHAGES AND ASTROCYTES. King, J 1, Chan, J 1, Jordan-Sciutto, K 1; 1Department of Pathology, University of Pennsylvania, Philadelphia, PA 19104.
- T-43. FEASIBILITY OF THE CONDITIONAL DEPLETION OF MOUSE MICROGLIA: IMPLICATION FOR HUMANIZED MOUSE MODEL IMPROVEMENT. Knibbe J, Gutti T, Akhter S, Bade A, Liu Y, Gorantla S, Poluektova L; University of Nebraska Medical Center, College Of Medicine / PEN Department, Omaha, NE 68114.
- T-44. INTERPLAY OF COCAINE ABUSE AND HIV-1 TAT PROTEIN ON OLIGODENDROCYTE FUNCTION: IMPLICATIONS FOR HIPPOCAMPAL DEMYELINATION AND PROGRESSION OF HAND. Kovalevich, J 1, Yen, W 1, Ozdemir, AY 1, Langford, D 1; 1Neuroscience, Temple University School of Medicine, Philadelphia, PA 19140.
- T-45. ASHWAGANDHA (WITHANIA SOMNIFERA) REVERSES B-AMYLOID INDUCED NEURONAL TOXICITY: IMPLICATIONS IN HAND. Kurapati, V.K.R 1, Atluri, V.S.R 1, Samikkannu, T 1, Yndart, A.A 1, Nair, M.P.N 1; 1Immunology, Florida International University, College of Medicine, Miami, FL 33199.
- T-46. ETHANOL DOWN REGULATES T CELL VITAMIN D RECEPTOR THROUGH MODULATION OF EPIGENETIC FACTORS. Lan, X 1, Chandel, N 1, Lederman, R 1, Valecha, G 1, Malhotra, A 1, Singhal, PC 1; 1Feinstein Institute for Medical Research, Hofstra North Shore LIJ Medical School, Great Neck, NY 11021.
- T-47. ETHANOL DOWN REGULATES T CELL VITAMIN D RECEPTOR THROUGH MODULATION OF EPIGENETIC FACTORS. Lan, X, Chandel, N, Lederman, R, Valecha, G, Malhotra, A, Singhal, PC; Feinstein Institute Medical Research, Hofstra North Shore LIJ Medical School, Great Neck, NY 11021.
- T-48. PINCH IN THE CELLULAR STRESS RESPONSE TO TAU-HYPERPHOSPHORYLATION. Langford, D 1, Ozdemir, AY 1, Rom, I 1, Kovalevich, J 1, Yen, W 1, Adiga, R 1, Dave, R 1; 1Neuroscience, Temple University School of Medicine, Philadelphia, PA 19140.
- T-49. LPS INDUCES IMMUNE ACTIVATION AND SIV REPLICATION IN CHINESE RHESUS MACAQUES. Li, J-L 1, Bao, R 1, Guo, M 2, Ye, L 3, Zhang, J 1, Dai, M 1, Rao, Y 1, Wang, Y 1, Xian, Q-Y 1, Huang, Z-X 1, Tang, Z-J 1, Persidsky, Y 3, Ho, W-Z 3; 1The Center for Animal Experiment/Animal Biosafety Level III Laboratory, Wuhan University School of Medicine, Hubei, 4300712State Key Laboratory of Virology, Wuhan University School of Medicine, Wuhan, PA 4300713Department of Pathology and Laboratory Medicine, Temple University School of Medicine, Philadelphia, PA 19140.
- T-50. HIV-1 TAT PROTEIN INCREASES MICROGLIAL OUTWARD K CURRENT AND RESULTANT NEUROTOXIC ACTIVITY. Liu, J 1, Collins, C 1, Xu, P 1, Chen, L 1, Xiong, H 1; 1Department of Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE 68198-5880.
- T-51. ANTIRETROVIRAL THERAPY REVERSES HIV-MEDIATED SUPPRESSION OF ANTIVIRAL CELLULAR FACTORS. Liu, MQ 1, Zhao, M 2, Zhou, W 1, Peng, JS 1, Wang, X 3, Wang, F 1, Zhou, DJ 1, Ho, WZ 3; 1Department of Virology, Wuhan Centers for Disease Prevention & Control, Wuhan,

4300152Wuhan AIDS Care Center, Wuhan Municipal Institute of Dermatosis, Wuhan, 4300303Department of Pathology and Laboratory Medicine, Temple University School of Medicine, Philadelphia, PA 19104.

- T-52. MIR-9 PROMOTES MICROGLIAL ACTIVATION BY TARGETING MCPIP: IMPLICATIONS FOR HAND. Ma, R 1, Yao, H 1, Buch, S 1; 1Department of Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE 68198.
- T-53. EFFECT OF HIV-1 SUBTYPE C INFECTION ON IMMUNE AND NERVOUS SYSTEM FUNCTION AND BIOLOGY IN A HUMANIZED MOUSE MODEL OF HIV/AIDS. Makarov, E 1, Adem, S 1, Wood, C 2, Poluektova, L 1, Gendelman, HE 1, Gorantla, S 1; 1Dept. of Pharmacology and Experimental Neuroscience, Univ. of Nebraska Medical Center, Omaha, NE 681982Nebraska Center for Virology, Univ. of Nebraska at Lincoln, Lincoln, NE 68583.
- T-54. CLINICAL CORRELATION WITH CD4 COUNT AND MENTAL DIAGNOSIS AMONG HIV INFECTED DRUG USERS. Munoz-Caamano, K., Raymond, A., Yndart, A., Pilakka-Kanthikeel, S., Nair, MPN.; Dept. of Immunology, Institute of NeuroImmune Pharmacology, Herbert Wertheim College of Medicine, Florida International University, Miami, FL 33199.
- T-55. THC-INDUCED DYSREGULATION IN MICRORNA TRIGGERS MYELOID-DERIVED SUPPRESSOR CELLS AND CONSEQUENT SUPPRESSION OF T CELL RESPONSES TO GP120 OF HIV. Nagarkatti M, Hegde V, Nagarkatti P; Dept. of Pathology, Microbiology and Immunology, University of South Carolina School of Medicine, Columbia, SC 29209.
- T-56. HIV-1 LTR SINGLE NUCLEOTIDE POLYMORPHISMS (SNPS) CORRELATE WITH CLINICAL DISEASE PARAMETERS. Nonnemacher, M 1, Pirrone, V 1, Dampier, W 1, Aiamkitsumrit, B 1, Williams, J 1, Shah, S 1, Wojno, A 1, Passic, S 1, Blakey, B 1, Zhong, W 1, Moldover, B 3, Feng, R 4, Downie, D 2, Lewis, S 2, Jacobson, J 2, Wigdahl, B 1; 1Department of Microbiology and Immunology, Drexel University College of Medicine, Philadelphia, PA 191022Division of Infectious Disease and HIV Medicine, Department of Medicine, Drexel University College of Medicine, Philadelphia, PA 191023B-Tech Consulting, LTD, B-Tech Consulting, LTD, Philadelphia, PA 191304Department of Biostatistics and Epidemiology, University of Pennsylvania School of Medicine, Philadelphia, PA 19104.
- T-57. ALCOHOL MEDITATED INDUCTION OF PROINFLAMMATORY CYTOKINES IN HUMAN ASTROCYTES. Nookala, A, Gangwani, M, Rey, JP, Shah, A, Kumar, S, Kumar, A; Pharmaoclogy & Toxicology, UMKC-School of Pharmacy, Kansas City, MO 64108.
- T-58. TAT-MEDIATED CHANGES OF MALAT1 LONG NON-CODING RNA AFFECTS THE STRUCTURE AND FUNCTION OF SC35 NUCLEAR SPECKLES DOMAINS IN NEURONS. Pacifici, M 1, Kadri, F 1, Jeansonne, D 1, Peruzzi, F 1; 1LCRC, LSUHSC School of Medicine, New Orleans, LA 70112.
- T-59. HIV-RELATED PAIN AND GP120 IN THE BRAIN. Palma, J, Geller, E, Adler, M, Eisenstein, T, and Benamar, K. Center for Substance Abuse Research (CSAR), Temple University School of Medicine, Philadelphia, Pennsylvania, USA.
- T-60. METHAMPHETAMINE-INDUCED OCCLUDIN ENDOCYTOSIS IS MEDIATED BY THE ARP2/3 COMPLEX-REGULATED ACTIN REARRANGEMENT. Park, M 1, Kim, HJ 1, Toborek, M 1; 1Department of Biochemistry and Molecular Biology, University of Miami School of Medicine, Miami, FL 33136.
- T-61. COMORBIDITY OF ALCOHOLISM, HIV INFECTION AND HEPATITIS C: IN VIVO BRAIN IMAGING. Pfefferbaum A, Zahr NM, Sullivan EV; Center for Health Science, SRI International, Menlo Park, CA 94025; Department of Psychiatry, Stanford University School of Medicine, Stanford, CA 94305.
- T-62. LONGITUDINAL STUDY OF HIV-1 INDUCED NEUROPATHOGENESIS IN HUMANIZED NOD/SCID-IL 2RECEPTOR GAMMA CHAIN-NULL (NSG) MOUSE MODEL. Potula, R 1, Zuluaga-Ramirez, V 1,

Reichenbach, N 1, Cenna, JM 1, Persidsky , Y 1; 1Pathology and Laboratory Medicine, Temple University School of Medicine, Philadelphia, PA 19140.

- T-63. SPECTRUM OF AUTOPSY HIV NEUROPATHOLOGY IN THE POST ANTI-RETROVIRAL THERAPY (ART) ERA: EXPERIENCE IN A SINGLE URBAN TERTIARY TEACHING HOSPITAL. Potula, R, Zhang, M, Ramirez, SH, Persidsky, Y, Mukherjee, A; Pathology and Laboratory Medicine, Temple Univ. Hospital and School of Medicine, Philadelphia, PA 19140.
- T-64. SERUM DETECTION OF SHED EXTRACELLULAR MICROVESICLES FROM BRAIN ENDOTHELIAL CELLS: SEROLOGICAL INDICATORS OF BLOOD BRAIN BARRIER (BBB) DISRUPTION DURING NEUROINFLAMMATION. Ramirez, SH 1, Persidsky, Y 1, Rom, S 1, Dykstra, H 1; 1Department of Pathology and Laboratory Medicine, Temple University School of Medicine, Philadelphia, PA 19140.
- T-65. COCAINE ENHANCES HIV-1 REPLICATION IN MONOCYTE DERIVED MACROPHAGES BY REGULATING THE ACTIVATING TRANSCRIPTION FACTOR-2 (ATF-2). Ranjan, A 1, Pandhare-Dash, J 1, Mantri, C K 1, Dash, CV 1; 1CAHDR, Meharry Medical college, Nashville, TN 37208.
- T-66. HIV NEUROPATHOGENESIS: ROLE OF NEF+ EXOSOMES (EXNEF), METHAMPHETAMINE AND OPIATES. Raymond, A.D. 1, Yndart-Arias, A. 1, Agudelo, M. 1, Munoz, K. 1, Alturi, V.S. 1, Pilakka, S. 2, Thangavel, S. 2, Nair, M.P. 1; 1Department of Immunology, Florida International University, Herbert Wertheim College of Medicine; 2Institute of NeuroImmune Pharmacology, Florida International University, Miami, FL 33199.
- T-67. SELECTIVE ACTIVATION OF CANNABINOID RECEPTOR 2 (CB2) IN LEUKOCYTES SUPPRESSES THEIR ENGAGEMENT OF THE BRAIN ENDOTHELIUM AND PROTECTS THE BLOOD BRAIN BARRIER (BBB). Rom S, Zuluaga-Ramirez V, Dykstra H, Reichenbach NL, Persidsky Y; Department of Pathology & Laboratory Medicine, Temple University School of Medicine, Philadelphia, PA 19140.
- T-68. MAGNETIC-NANO FORMULATION OF M-OPIOID RECEPTOR ANTAGONIST (CTOP) FOR TREATMENT OF MORPHINE-INDUCED NEUROPATHOGENESIS IN HIV INFECTION. Sagar, Vidya 1, Pilakka-Kanthikeel, S. K. 1, Priestap, H. 2, Atluri, V. S. R. 1, Ding, H. 1, Guduru, R. 1, Khizroev, S. 1, Nair, M.P. 1; 1Center for Personalized Nanomedicine, Institute of NeuroImmune Pharmacology, Department of Immunology, Herbert Wertheim College of Medicine, Florida International University, Miami, FL 331992Department of Biological Sciences, College of Arts and Sciences, Florida International University, Miami, FL 33199.
- T-69. CANNABINOID BLOCKADE OF HIV-1 GP120-INDUCED EFFECTS ON HUMAN FETAL NEURAL PRECURSOR CELLS. Sheng, WS 1, Hu, S 1, Rock, R B 1; 1CIDMTR, Department of Medicine, University of Minnesota, Minneapolis, MN 55455.
- T-70. INTERPLAY OF HIV-1 GP120 AND OPIATES DURING THE PATHOGENESIS OF HIV-ASSOCIATED CHRONIC PAIN. Tang, S.-J. 1, Shi, Y. 1, Yuan, S. 1; 1Department of Neuroscience and Cell Biology, University of Texas Medical Branch, Galveston, TX 77555.
- T-71. IMMUNOPATHOGENIC MECHANISMS OF HIV-1 CLADE B AND C: ROLE OF DOPAMINERGIC SYSTEM. Thangavel, S 1, Rao, K.V.K 1, Raymond, A 1, Ding, H 1, Atluri , V.S.R 1, Nair, M.P 1; 1Institute of NeuroImmune Pharmacology (NIP), College of Medicine,, Florida International University, Miami, FL 33199.
- T-72. HEROIN USE INHIBITS ANTI-HIV MICRORNA EXPRESSION IN CD4+ T CELLS. Wang, X 1, Peng, JS 2, Liu, MQ 2, Zhou, Y 1, Wang, F 2, Zhou, W 2, Zhou, DJ 2, Ho, WZ 1; 1Dept. of Pathology and Laboratory Medicine, Temple University School of Medicine, Philadelphia, PA 191402Dept. of Virology, Wuhan Centers for Disease Prevention & Control, WUHAN, 430015.
- T-73. DYSREGULATION OF IL-33 AND ST2 IN HIV1 B AND C CLADES. Yndart A, Agudelo M, Munoz-Caamano K, Raymond A, Nair M; Immunology Department, College of Medicine, Florida International University, Miami, FL 33199.

- T-74. URMC-099: A MIXED-LINEAGE KINASE-3 (MLK3) INHIBITOR WITH THE POTENTIAL TO ERADICATE HUMAN IMMUNODEFICIENCY VIRUS INFECTION. Zhang G, Dash PK, Wiederin JL, Ciborowski PS, Goodfellow VS, McMillan JM, Smith NA, Gorantla AS, Gelbard, HA, Gendelman HE; University of Nebraska Medical Center, School of Medicine, Omaha, NE 68198; Califia Bio., Inc, San Diego, CA 92121; University of Rochester Medical Center, School of Medicine and Dentistry, Rochester, NY 14642.
- T-75. INTERMOLECULAR INTERACTION BETWEEN HIV-1 TAT PROTEIN AND DOPAMINE TRANSPORTER DISRUPTS THE PHYSIOLOGICAL FUNCTION OF DOPAMINE SYSTEM. Zhu, J 1, Midde, NM 1, Huang, X 3, Gomez, AM 1, Booze, RM 2, Zhan, CG 3; 1South Carolina College of Pharmacy, University of South Carolina, Columbia, SC 292082Psychology, University of South Carolina, Columbia, SC 292083College of Pharmacy, University of Kentucky, Lexington, KY 40536.

Please remove all posters at the end of the session

Friday, April 5, 2013

- **6:30-8:00am** JNIP Editorial Board Meeting (Ponce de Leon B)
- 7:00-8:00am Continental Breakfast for Conference Registrants (Ponce de Leon Foyer)
- 8:00 8:40am PLENARY LECTURE 3: Jon M Lindstrom Ph.D.- University of Pennsylvania

Title: Nicotinic acetylcholine receptors: Targets of nicotine and autoantibodies

Introduction: Mohan Sopori, Ph.D.- Lovelace Respiratory Research Institute, Albuquerque, NM

8:40-10:10am SYMPOSIUM III: Physiological and Pathological Role of Nicotinic Receptors

Co-Chairs: Madhavan Nair, Ph.D.- Florida International University Mohan Sopori, Ph.D.- Lovelace Respiratory Research Institute

8:40-9:05am Lecture 1: Eliot R Spindel, Ph.D.- Oregon Health and Science University

Title: LYNX1 and other LY-6 proteins are a family of endogenous regulators of nicotinic signaling: Implications for lung disease and lung cancer

- 9:05 9:30am Lecture 2: Mohan Sopori, Ph.D.- Lovelace Institute Title: Nicotinic Receptors in Airway mucus formation in Health and Disease.
- 9:30-9:50am Lecture 3: Santosh Kumar, Ph.D.- UMKC

Title: Role of cytochrome P450 enzymes in tobacco/nicotine-mediated effects on HIV-1 model systems

9:50-10:10am Lecture 4: Venkata Subba Rao Atluri, Ph.D.- Florida International University Title: Effect of nicotine on synaptic plasticity gene expression in HIV-1 infection: implication in HAND

10:10-10:20am Coffee Break

10:20-10:50am Plenary Lecture 4: Bert t' Hart, Ph.D.- Biomedical Primate Research Center, The Netherlands

	Title: Mysterious Role of B lymphocytes in neuroinflammation
	Introduction: Howard Gendelman, M.D University of Nebraska
10:50-12:25pm	Symposium IV: Animal Models of HIV infection and Drug Abuse Session
	Co-Chairs: Shilpa Buch, Ph.D University of Nebraska Marcus Kaul, Ph.D Sanford-Burnham Institute
10:50-11:15am	Lecture 1: Howard Fox, M.D., Ph.D University of Nebraska, Omaha,NE
	Title: Interaction of methamphetamine and HIV – A systems approach
11:15-11:40am	Lecture 2: Ken Williams, Ph.D Boston College, Chestnut Hill, MA
	Title: Monocyte and Macrophage Activation in SIV Pathogenesis
11:40-12:05pm	Lecture 3: Fatah Kashanchi, Ph.D George Mason University, Manassas, VA
	Title: Exosomes and their function in vitro and in vivo
12:05-12:25pm	Lecture 4: Marco Salemi, Ph.D University of Florida, Gainsville, FL
	Title: Phylodynamic analysis of brain infection in the SIV infected macaque model of NeuroAIDS
12:30 - 1:30pm	Early Career Investigators Grant Writing Workshop Session
	Co-Chairs: Albert Avila, Ph.D National Institute on Drug Abuse/NIH Eduardo Montalvo Ph.D CSR, National Institutes of Health
1.30- 2.10pm	Bill Narayan Lecture: Avi Nath, M.D NINDS, National Institute of Health
	Title: Eradication of HIV reservoirs from the brain
	Introduction: Shilpa Buch Ph.D University of Nebraska, Omaha
2:10 – 4:10pm	Symposium V: Cannabinoids, HIV Pathogenicity, and Other Infectious Disease Processes
	Organizers: Vishnudutt Purohit, Ph.DNational Institute on Drug Abuse, NIH Guy A. Cabral, Ph.D Virginia Commonwealth University
	Co-Chairs: Rao Rapaka, Ph.D National Institute on Drug Abuse, NIH Guy A. Cabral, Ph.D Virginia Commonwealth University
2.10-2.15pm	Introductory Comments - Rao Rapaka, Ph.D Chief, Chemistry and Physiological Systems Research Branch (CPSRB), NIDA, NIH
2:15 – 2:40pm	Lecture 1: Melissa Jamerson, Ph.D Virginia Commonwealth University School of Medicine, Richmond, VA
	Title: Cannabinoids mediate macrophage-like cell responsiveness to HIV-specified gene products
2:40-3:05pm	Lecture 2: Mitzi Nagarkatti, Ph.D University of South Carolina School of Medicine, Columbia, SC
	Title: THC-induced dysregulation in microRNA triggers myeloid-derived suppressor cells and consequent suppression of T cell responses to gp120 of HIV.

3:05-3:30pm	Lecture 3: Nicole LeCapitaine, Ph.D University Health Sciences Center, New Orleans, LA
	Title: Unraveling the impact of cannabinoids on HIV disease: a system-wide approach.
3:30 – 3:55pm	Lecture 4: Norbert Kaminski, Ph.D Director for Integrative Toxicology, Michigan State University, East Lansing, MI
	Title: Role of antigen presenting cells and the cannabinoid receptors 1 and 2 in Δ 9-tetrahydrocannabinol impairment of the inflammatory response to influenza infection
3:55-4:00pm	Summary and Conclusion – Vishnudutt Purohit, Ph.D NIDA, NIH
	Afternoon and Evening Free!!!
	Saturday, April 6, 2013
7:00-8:00am	Continental Breakfast for Conference Registrants (<i>Ponce de Leon Foyer</i>)
8:00 – 8:40am	PLENARY LECTURE 5: Tariq Rana, Ph.D Sanford-Burnham Institute
	Title: Meeting Places for RNAi and Antiviral Defense Machine
	Introduction: Marcus Kaul, Ph.D Sanford-Burnham Institute
8:40 -10:.35am	SYMPOSIUM VI: Neuropathology of HIV-1 in an Aging Population
	Co-Chairs: Jeymohan Joseph, Ph.D National Institute of Mental Health, Bethesda Michal Toborek M.D., Ph.D University of Miami School of Medicine
8:40-8:45am	Introductory Remarks: Jeymohan Joseph, Ph.D NIMH, NIH
8:45-9:10am	Lecture 1: Gary Landreth, Ph.D Case Western Reserve University, Cleveland, OH
	Title: Therapeutic approaches to amyloid clearance and improved cognitive function"
9:10-9:35am	Lecture 2: Eliezer Masliah, Ph.D University of California, San Diego
	Title: Autophagy and HIV-1 brain infection
9:35-9:55am	Lecture 3: Valerie Wojna, M.D University of Puerto Rico, San Juan, PR Title: HAND and Host Factors in Women on CART: Role of β-amyloid
9:55-10:05am	Coffee Break
10:05-10:30am	Lecture 4: Lynn Pulliam, Ph.D University of California, San Francisco Title: HIV regulation of amyloid beta production
10:25-10:45am	Lecture 5: Ibolya Andras, M.D University of Miami School of Medicine Title: HIV-1 induced amyloid beta accumulation in brain endothelial cells"
10:50-10:55am	Concluding Remarks

10:55-am 12:05	Symposium VII: Early Career Investigator Symposium
	Co-Chairs: Santosh Kumar, Ph.D UMKC
	Mike Nonemacher, Ph.D Drexel University, Philadelphia
11:00-11:30am	Pre doctoral Presentations
	Lecture 1: Ankit Shah, M.S School of Pharmacy, Univ. of Missouri-Kansas City
	Title: HIV-1 protein gp120 and methamphetamine co-operate synergistically to increase oxidative stress in astrocytes: Role of cytochrome P450
	Lecture 2: Yu Zhou, M.S Temple University School of Medicine
	Title: HCV infection and heroin use dysregulate the circulating miRNA expression
	Lecture 3: Sarah J. Bertrand, B.S University of South Carolina
	Title: HIV-1 Tat/cocaine-induced synaptodendritic injury is prevented by estrogenic compounds
11:35-12:05pm	Post Doctoral Presentation
	Lecture 1: Crystal Bethel-Brown, Ph.D University of Nebraska Medical Center
	Title: Cooperative effects of HIV-1 Tat and ethanol on human brain endothelial cell permeability involves modulation of PDGF/PDGF-R axis
	Lecture 2: Fnu Ashutosh, Ph.D.– Univ. of North Texas Health Science Center
	Title: A nanotechnology approach to protect human neurons from oxidative stress
	Lecture 3: J Ma, Ph.D – Department of Surgery, University of Minnesota
	Title: Methamphetamine disrupts gut barrier function in a murine EcoHIV infection model
12:05-12:30pm	Lunch on your own
12:30-1:30pm	Future Perspective – NeuroAIDS, Substance Abuse Think Tank
	Co-Chair: Yuri Persidsky, M.D., Ph.D Temple University, Philadelphia, PA Kendall Bryant, Ph.D NIAAA
1:30 – 3:15pm	Symposium VIII: Local Host Symposium – HIV, Drug Abuse, and Neurolmmune Pharmacology Research in Puerto Rico
	Co-Chairs: Richard J. Noel Jr., Ph.D Ponce School of Medicine Loyda Melendez, Ph.D UPR - Medical Sciences Campus
1:30-1:50pm	Lecture 1: Vanessa Rivera-Amill, Ph.D Ponce School of Medicine
	Title: Integrated Behavioral Care Reduces Depressive Symptoms and Improves Psychological and Physical Health in HIV Patients.
1:50-2:10pm	Lecture 2: Annabell Segara Ph.D UPR - Medical Sciences Campus
	Title: Sex steroids modulation of the behavioral response to cocaine.
2:10-2:30pm	Lecture 3: Steven Treistman, Ph.D UPR - Neurobiology Institute
	Title: Molecular tolerance: Routes to drug adaptation viewed from the level of an individual channel protein"

2:30-2:50pm	Lecture 4: Loyda Melendez, Ph.D UPR - Medical Sciences Campus Title: Cathepsin B and cystatin B in HIV infection and neurocognitive disorders.	
2:50-3:10pm	Lecture 5: Jose Lasalde, Ph.D UPR - Rio Piedras Title: The alpha7 nicotinic acetylcholine receptor in HIV: Potential implications to HIV- associated neurocognitive disorders and inflammation.	
3:10-3:15pm	Concluding Remarks	
7:00 – 10:00pm	EVENING BANQUET AND AWARDS CEREMONY Hosted by Howard Fox, M.D., Ph.D incoming SNIP President Special Dinner Presentation: David Shurtleff, Ph.D NIDA, NIH	
Meeting Adjourned!		

Sunday, April 7, 2013

Departure Day

19th SNIP SCIENTIFIC CONFERENCE

REGISTERED PARTICIPANT LIST

Bert A 't Hart

Dept. Immunobiology, Biomedical Primate Research Centre Lange Kleiweg 161 Rijswijk, AL 2288GJ Netherlands hart@bprc.nl

Amma Addai

Meharry Medical College Department of Biochemistry and Cancer Biology 1005 Dr. D.B. Todd, Jr. Blvd Nashville, TN 37208 aaddai09@email.mmc.edu

Martin W Adler

Temple Univ School of Medicine 3500 N. Broad St. Philadelphia, PA 19140 baldeagl@temple.edu

Marisela Agudelo

Herbert Wertheim College of Medicine, Florida International University 10480 SW 228th terrace Miami, FL 33190 magudelo@fiu.edu

Cagla Akay

University of Pennsylvania, School of Dental Medicine, Dept of Pathology 240 South 40th Street Room 312, Levy Building Philadelphia, PA 19104 akayc@upenn.edu

Marina Aksenova

Psychology Department, University of South Carolina 1512 Pendleton St Barnwell College Columbia, SC 29208 Aksenova@mailbox.sc.edu

Lena Al-Harthi

Rush University Medical Center 1735 West Harrison St. Chicago, IL 60612 Lena_Al-Harthi@rush.edu

Janaina Alves

Universidad Central Del Caribe PO BOX 60327 Bayamon, PR 00960-6032 abaez@uccaribe.edu

Vidhu Anand

University of Minnesota Surgery BTR 515 Delaware Street SE

MMC 195 Mayo Minneapolis, MN 55455 vanand@umn.edu

Anusha Ande

Division of Pharmacology UMKC School of Pharmacy 2464 Charlotte St., HSB 3219 Kansas City,MO64108 aakhd@mail.umkc.edu

Ibolya-Edit Andras

University of Miami 1011 NW 15th St. Gautier Rm 528B Miami, FL 33136 IAndras@med.miami.edu

Gregory Antell

Microbiology and Immunology, Drexel University College of Medicine 245 N. 15th Street Philadelphia, PA 19102 gregory.c.antell@gmail.com

Fnu Ashutosh

UNT Health Science Center 3500 Camp Bowie Blvd Fort Worth, TX 76107 fnu.ashutosh@unthsc.edu

Venkata Subba Rao Atluri

Herbert Wertheim College of Medicine, FIU 11200 SW 8th St. Miami, FL 33199 vatluri@fiu.edu

Valeriya Avdoshina

Department of Neuroscience 3970 Reservoir Rd. NW NRB, EG-19A Washington DC 20057 va44@georgetonw.edu

Albert Avila

NIH/National Institute on Drug Abuse 6001 Executive Blvd. Suite 4282, MSC 9555 Rockville, MD 20852 aavila@nida.nih.gov

Alessia Bachis

Department of Neuroscience, Georgetown University 3970 Reservoir Rd. NW Washington DC, 20057 bachisa@georgetown.edu

Carlos A. Baez-Pagan

University of Puerto Rico PO Box 223360 San Juan, PR 931 Puerto Rico cbaezpagan@gmail.com

Santanu Banerjee

University of Minnesota 515 Delaware St. SE Minneapolis, MN 55455 banerjes@umn.edu

Roderick Allen Barke

Minneapolis Veterans Affairs University of Minnesota, Department of Surgery, Director, Specialty Care PSL (112) Minneapolis, MN 55417 Roderick.Barke@va.gov, barke009@umn.edu

Usman Barlass

University of Minnesota 515 Delaware Street SE Minneapolis, MN 55455 ubarlass@umn.edu

Joan W Berman

Albert Einstein College of Medicine Department of Pathology 1300 Morris Park Avenue Bronx, NY 10461 joan.berman@einstein.yu.edu

Sarah J Bertrand

Psychology Department, University of South Carolina 1512 Pendleton Street Barnwell College Columbia, SC 29208 sbertrand114@gmail.com

Crystal Bethel-Brown

Univ of Nebraska Medical Center 17116 Chutney Drive Omaha, NE 68136 c.bethelbrown@unmc.edu

Yuri A Blednov

University of Texas at Austin 1 University Station, A4800 Austin, TX 78712 yablednov@austin.utexas.edu

Rose Booze

University of South Carolina 1512 Pendleton Street Columbia, SC 29208 booze@mailbox.sc.edu

Kathleen Borgmann

University of North Texas Health Science Center 3500 Camp Bowie Blvd, RES 202 Fort Worth, TX 76107 kathleen.borgmann@unthsc.edu

Dr. Nawal Boukli

Biomedical Proteomics Facility Universidad Central del Caribe School of Medicine Ave. Laurel, Sta. Juanita Bayamon, PR 00956 nawal.boukli@uccaribe.edu

Shilpa J Buch

Univ of Nebraska Medical Center 985880 Nebraska Medical Center DRC 8011 Omaha, NE 68198 sbuch@unmc.edu

Guy A Cabral

Virginia Commonwealth University School of Medicine 1101 E. Marshall Street Richmond, VA 23298-0678 gacabral@vcu.edu

Tina M.Calderon

Albert Einstein College of Medicine Dept. of Pathology, 1300 Morris Park Ave., Forchheimer 727 Bronx, NY 10461 tina.calderon@einstein.yu.edu

Shannon E Callen

Univ of Nebraska Medical Center 985880 Nebraska Medical Center DRC 8052 Omaha, NE 68198 scallen@unmc.edu

Yisel Cantres-Rosario

University of Puerto Rico Medical Sciences Campus Biomedical Building 1, Room 301 San Juan, PR 935 yisel.m.cantres@upr.edu

Lu Cao

Division of Pharmacology College of Pharmacy University of Missouri-Kansas City 2464 Charlotte Street Kansas City, MO 64108 Ic7x5@mail.umkc.edu

Ricardo Carrero

Biomedical Proteomics Facility Universidad Central del Caribe Ave. Laurel, Sta. Juanita Bayamon, PR 00956 411rcarrero@uccaribe.edu

Loreto Carvallo

Albert Einstein College of Medicine 1300 Morris Park Avenue Bronx, NY 10461 Icarvall@einstein.yu.edu

Victor Manuel Castro Villela

University of Miami Miller School of Medicine Dpt. Biochemistry and Molecular Biology 1011 NW 15th street Miami, FL 33130 vcastrovillela@med.miami.edu

Richard G Charboneau

Department of Surgery University of Minnesota 515 Delaware St SE Minneapolis, MN 55455 charb019@umn.edu

Maxim C-J Cheeran

Veterinary Population Medicine College of Veterinary Medicine, University of Minnesota 1365 Gortner Avenue St. Paul, MN 55108 cheeran@umn.edu

Benjamin K Chen

Mount Sinai School of Medicine One Gustave Levy Place, Box 1630 New York, NY 10029 ben.chen@mssm.edu

Lihua Chen

Rush University Medical Center 1735 W. Harrrion ST. Chicago, IL 60612 lihua_chen@rush.edu

Qiang Chen

Department of Pharmacology and Experimental Neuroscience, Univ of Nebraska Medical Center 985930 Nebraska Medical Center Omaha, NE 68198 gche1@unmc.edu

Pawel Ciborowski

Univ of Nebraska Medical Center, Department of Pharmacology and Experimental Neuroscience 985800 Nebraska Medical Center Omaha, NE 68198-5800 pciborowski@unmc.edu

Irma Elisa Cisneros

University of North Texas Health Science Center 3500 Camp Bowie Blvd Fort Worth, TX 76107 icisnero@live.unthsc.edu

Jacqueline Seki Coley

Albert Einstein College of Medicine 1300 Morris Park Avenue Forchheimer 727, Bronx, NY 10461 jacqueline.coley@phd.einstein.yu.edu

Krystal Colon-Rivera

University of Puerto Rico - Medical Sciences Campus Biomedical Bldg 1 San Juan, PR 935 krystal.colon@upr.edu

Fulton T. Crews

Univ of North Carolina, Chapel Hill Bowles Center for Alcohol Studies

1021 Thurston-Bowles Building, Chapel Hill, NC 27599-7178 ftcrews@med.unc.edu

Elizabeth Patricia Crowe

Drexel University College of Medicine 245 N. 15th St., MS435 Philadelphia, PA 19102 epc27@drexel.edu

Changhai Cui

NIH/NIAAA/DNB 5635 Fishers Lane, Room 2067 Rockville, MD 20852-1796 changhai@mail.nih.gov

Carlo Amorin Daep

Univ of Medicine and Dentistry of NJ ICPH Public Health Research institute 225 Warren St RBL2220 Newark, NJ 7003 daepcp@umdnj.edu

William Dampier

Drexel University College of Medicine 245 N. 15th Street Philadelphia, PA 19102 judowill@gmail.com

Chandravanu Dash

Center for AIDS Health Disparities 1005 Dr. DB Todd Jr Blvd Old Hospital Bldg-CAHDR Nashville, TN 37221 cdash@mmc.edu

Prasun Datta

Neuroscience Temple University School of Medicine 3500 N. Broad Street Philadelphia, PA 19140 dattapk@temple.edu

Navneet K. Dhillon

University of Kansas Medical Center 3901 Rainbow Blvd. Kansas City, KS 66160 ndhillon@kumc.edu

Hong Ding

Immunology Department, Herbert Wertheim College of Medicine Florida International University 11200 SW 8th St AHC1-308 Miami, FL 33199 hding@fiu.edu

Robert M Donahoe

University of Utah PO Box 342 Eden, UT 84310 robert.donahoe@path.utah.edu

Raini Dutta

Department of Surgery University of Minnesota 420 Delaware St SE Minneapolis, MN 55455 rdutta@umn.edu

Ravinder Earla

UMKC School of Pharmacy 2464 Charlotte Street Kansas City, MO 64108 earlar@umkc.edu

Toby K Eisenstein

Center for Substance Abuse Temple University School of Medicine 3500 North Broad Street Philadelphia, PA 19140 tke@temple.edu

Nazira El-Hage

Virginia Commonwealth University 410 N. 12th Street, Rm. 746 Richmond, VA 23298 nelhage@vcu.edu

Sung Yong Eum

Department of Biochemistry & Molecular Biology, University of Miami Miller School of Medicine 1011 NW 15th Street Miami, FL 33136 seum@med.miami.edu

Laura B Ferguson

University of Texas at Austin, Institute for Neuroscience, Waggoner Center for Alcohol Addiction Austin, TX 78712 laurazeavin@gmail.com

Lindsay Festa

Drexel University College of Medicine 245 N. 15th Street Philadelphia, PA 19103 lindsay.festa@gmail.com

Jerel A Fields

University of California San Diego 4702 Mission Blvd #2 San Diego, CA 92109 jafields@ucsd.edu

Howard Steven Fox

Univ of Nebraska Medical Center 985800 Nebraska Medical Center Omaha, NE 68198 hfox@unmc.edu

Tina C Franklin

Rutgers University 67 Poultry Farm Rd New Brunswick, NJ 8901 tinaf@eden.rutgers.edu

Mohitkumar Rajkumar Gangwani

Department of Pharmacology University of Missouri Kansas City 2464 Charlotte Street Kansas City, MO 64108 mrgdrc@mail.umkc.edu

Patrick Joseph Gannon

University of Pennsylvania 4101 Baltimore Avenue Philadelphia, PA 19104 gannonp@mail.med.upenn.edu

Peter Jesse Gaskill

Albert Einstein College of Medicine 1300 Morris Park Avenue Bronx, NY 10461 peter.gaskill@einstein.yu.edu

Howard E Gendelman

Univ of Nebraska Medical Center 985880 Nebraska Medical Center DRC 8008 Omaha, NE 68198-5880 HEGENDEL@UNMC.EDU

Yamil Gerena

University of Puerto Rico-Medical Sciences Campus, Department of Pharmaceutical Sciences P.O. Box 365067 San Juan, PR 00936-5067 yamil.gerena@upr.edu

Anuja Ghorpade

UNTHSC 3500 Camp Bowie BLvd RES 202 Fort Worth, TX 76107 anuja.ghorpade@unthsc.edu

Larisa Gofman

Temple University School of Medicine 3500 N. Broad Street MERB 880A Department of Pathology Philadelphia, PA 19140 Igofman@temple.edu

Santhi Gorantla

Univ of Nebraska Medical Center 985880 Nebraska Medical Center Omaha, NE 68198 sgorantla@unmc.edu

James Haorah

Univ of Nebraska Medical Center 985215 Nebraska Medical Center Omaha, NE 68198-5215 Jhaorah@unmc.edu

R. Adron Harris

University of Texas at Austin, Waggoner Center for Alcohol & Addiction Research 2500 Speedway, MBB 1.124 Austin, TX 78712 harris@austin.utexas.edu

Norman Haughey

Johns Hopkins University SOM

600 N Wolfe Street Baltimore, MD 21287 Nhaughe1@jhmi.edu

Kurt Hauser

Virginia Commonwealth University RM439, 1217 E. Marshall St. Richmond, VA 23298 kfhauser@vcu.edu

Johnny J He

University of North Texas Health Science Center 3500 Camp Bowie Blvd Fort Worth, TX 76107 johnny.he@unthsc.edu

Ramakrishna Hegde

University of Kansas Medical Center-Physiology Department 3901 Rainbow Boulevard Kansas City, KS 66160 rhegde2@kumc.edu

Charles Hinkin

UCLA School of Medicine 15865 Royal Haven Place Sherman Oaks, CA 91403 chinkin@ucla.edu

Wenzhe Ho

Temple University 3500 N Broad St Philadelphia, PA 19140 wenzheho@temple.edu

Shuxian Hu

Univ of Minnesota Medical School 3-432 TRF, 2001 6th St. SE Minneapolis, MN 55455 huxxx031@umn.edu

Xiu Ti Hu

Dept. of Pharmacology Rush University Medical Center Cohn Research Building, Rm 414 1735 W. Harrison Street Chicago, IL 60612 xiu-ti hu@rush.edu

Mark R Hutchinson

University of Adelaide Frome Rd Adelaide, AL 5005, Australia mark.hutchinson@adelaide.edu.au

Joseph Wiliam Jackson

University of Rochester 601 Elmwood Ave Rochester, NY 14642 joseph_jackson@urmc.rochester.edu

Melissa June Jamerson

Virginia Commonwealth University 1101 East Marshall Street Sanger Hall Room 7065 Richmond, VA 23298 hrickomj@vcu.edu

Sietse Jonkman

Scripps Research Institute Florida 110 Scripps Way Jupiter, FL 33458 sjonkman@scripps edu

Kelly L Jordan-Sciutto

University of Pennsylvania 240 S 40th St Room 312 Levy Philadelphia, PA 19104 jordank@upenn.edu

Jeymohan Joseph

National Institute of Mental Health Rm 6110 6001 Executive Boulevard Bethesda, MD 20852 jjeymoha@mail.nih.gov

Norbert E Kaminski

Michigan State University 1129 Farm Lane 315 Food Safety and Toxicology Bldg East Lansing, MI 48824 kamins11@msu.edu

Thirumala-Devi Kanneganti

St. Jude Children's Research Hospital 262 Danny Thomas Place, MS 3511 Memphis, TN 38105 thirumala-devi.kanneganti@stjude.org

Marcus Kaul

Sanford-Burnham Medical Research Institute 10901 North Torrey Pines Road La Jolla, CA 92037 mkaul@sanfordburnham.org

Jag H Khalsa, PhD, MS

National Institute on Drug Abuse, NIH 6001 Executive Blvd., Room 4137 Bethesda, MD 20892 jag.khalsa@nih.gov

Michelle M Kiebala

University of Rochester School of Medicine and Dentistry 601 Elmwood Ave., Box 672 Rochester, NY 14642 michelle_kiebala@urmc.rochester.edu

Hyun-Jung Kim

University of Miami 1011 NW 15th St. Miami, FL 33136 hjkim@med.miami.edu

Jennifer Margaret King

University of Pennsylvania Philadelphia, PA 19143 kingjen@dental.upenn.edu

Lisa Koodie University of Minnesota

3900 Plymouth Blvd. #215 Plymouth, MN 55446 kood0006@umn.edu

Jane Kovalevich

Temple University 3500 N. Broad Street, MERB 750 Philadelphia, PA 19140 jane.kovalevich@temple.edu

Edmundo Kraiselburd

UPR Medical School GPOBox 365067 San Juan, PR 936 Edmundo.kraiselburd@upr.edu

Kelly Allen Krogh

University of Minnesota Medical School, Department of Pharmacology 1150 Hennepin Ave #2004 Minneapolis, MN 55403 kelly.krogh@gmail.com

Adarsh M Kumar

Department of Psychiatry and Behavioral Sciences Univ. of Miami, Miller School of Medicine 1120 NW 14th Street, (CRB 1462) Miami, FL 33136 United States akumar@med.miami.edu

Anil Kumar

UMKC School of Pharmacy 2464 Charlotte Street HSB 3255 Kansas City, MO 64108 kumaran@umkc.edu

Mahendra Kumar

Department of Psychiatry and Behavioral Sciences Univ. of Miami, Miller School of Medicine 1120 NW 14th Street (CRB 1461) Miami, FL 33136 United States mkumar@med.miami.edu

Santosh Kumar

University of Missouri-Kansas City 2464 Charlotte St. Kansas City, MO 64018 kumarsa@umkc.edu

Xiqian Lan

Feinstein Institute for Research, Hofstra North Shore LIJ Medical 225 Community Drive Great Neck, NY 11021 xlan@nshs.edu

Gary E Landreth

Case Western Reserve University Neurosciences, E649, SOM

10900 Euclid Ave Cleveland, OH, 44106 gel2@case.edu

Dianne Langford

Temple UniversitySchool of Medicine Department of Neuroscience 3500 N. Broad St, MERB 750 Philadelphia, PA 19140 tdl@temple.edu

Nicole Jane LeCapitaine

LSU Health Sciences Center Department of Physiology 1901 Perdido Street New Orleans, LA 70115 nlecap@lsuhsc.edu

Jon Martin Lindstrom

Department of Neuroscience Medical School, Univ. of Pennsylvania 217 Stemmler Hall Philadelphia, PA 19104-6074 jslkk@mail.med.upenn.edu

Jianuo Liu

Department of Pharmacology and Experimental Neuroscience Univ of Nebraska Medical Center 600 S. 42nd Street Omaha, NE 68198-5880 jnliu@unmc.edu

Xun Liu

Division of Pharmacology University of Missouri-Kansas City 2464 Charlotte Street Kansas City, MO 64108 xlfn3@mail.umkc.edu

James R. Lokensgard

University of Minnesota 3-220 LRB/MTRF 2001 6th St. S.E. Minneapolis, MN 55455 loken006@umn.edu

Sheila Lopez

Biomedical Proteomics Facility Universidad Central del Caribe School of Medicine Ave. Laurel, Sta. Juanita Bayamon, PR 00956 sheila natalie@yahoo.com

Raisa Loucil

Ponce School of Medicine 395 Zona Industrial Reparada #2 Ponce, PR 716 r.loucil@gmail.com

Jing Ma

Department of Surgery University of Minnesota 420 Delaware Street SE, MMC195 Minneapolis, MN 55455 maxxx221@umn.edu

Sanjay B Maggirwar

Univ of Rochester Medical Center 601 Elmwood Avenue, Box 672 Rochester, NY 14642 sanjay_maggirwar@urmc.rochester.edu

Eugene O Major

NIH, NINDS 10 Center Drive Bldg 10/RM 3B14 Bethesda, MD 20892 majorg@ninds.nih.gov

Manmeet K Mamik

Cell Biology and Anatomy, University of North Texas Health Science Center 3500 Camp Bowie Blvd, RES 232 Fort Worth, TX 76107 makaur@live.unthsc.edu

Chinmay K Mantri

CAHDR, Meharry Medical College 1005 Dr Db Todd Jr Blvd Old Hospital Building, 5th Floor Nashville, TN 37208 cmantri@mmc.du

Neysha Martinez-Orengo

Ponce School of Medicine 395 Zona Industrial Reparada #2 Ponce, PR 716 ney2sonara@yahoo.com

Yvonne McCommon

UMKC School of Pharmacy 2464 Charlotte Street HSB 3255 Kansas City, MO 64108 mccommony@umkc.edu

Loyda Melendez

University of Puerto Rico, Medical Sciences Campus Department of Microbiology A-367 PO Box 365067 San Juan, Puerto Rico 936 loyda.melendez@upr.edu

Raissa Menendez-Delmestre

University of Puerto Rico, Medical Sciences Campus NeuroAIDS Program Biomedical Bldg 1 Suite 332 San Juan, PR 935 raissa.menendez@upr.edu

Jingjing Meng

Department of Pharmacology, University of Minnesota 6-120 Jackson Hall 321 Church St. SE Minneapolis, MN 55455 mengx062@umn.edu

Olimpia Meucci

Drexel University College of Medicine 245 North 15th Street, NCB 8221 Philadelphia, PA 19072 omeucci@drexelmed.edu

Italo Mocchetti

Georgetown Univ Medical Center 3970 Reservoir Rd, WP13 NRB Washington, DC 20057 moccheti@georgetown.edu

Patricia E Molina

LSUHSC, Department of Physiology 1901 Perdido St. Rm 7205 New Orleans, LA 70112 PMolin@Isuhsc.edu

Thomas W. Molitor

University of Minnesota 1365 Gortner Ave., 225 VMC St. Paul, MN 55108 molit001@umn.edu

Eduardo Montalvo

National Institutes of Health 6701 Rockledge Drive Bethesda , MD 20892 montalve@csr.nih.gov

Landhing Mary Moran

University of South Carolina 1204 Main Street Columbia, SC 29201 moranl@email.sc.edu

Karla Munoz

Immunology Department, Herbert Wertheim College of Medicine -Florida International University 11200 SW 8th St, AHC1-308 Miami, FL 33199 liortiz@fiu.edu

Manohar B Mutnal

University of Minnesota 2001 6th ST SE 3-430 LRB/MTRF Minneapolis, MN 55455 mutna001@umn.edu

Mitzi Nagarkatti

University of South Carolina- School of Medicine, Dept. of Pathology, Microbiology and Immunology 6439 Garners Ferry Rd. Columbia, SC 29208 Mitzi.Nagarkatti@uscmed.sc.edu

Prakash S. Nagarkatti

Office of Research University of South Carolina 915 Bull Street Columbia, SC 29208 Prakash@mailbox.sc.edu

Madhavan Nair

Immunology Department, Herbert Wertheim College of Medicine -Florida International University 11200 SW 8th St, AHC1-308 Miami, FL 33199 liortiz@fiu.edu

Celeste Napier

Rush University Medical Center 1735 W Harrison Street, Cohn 424 Chicago, IL 60612 celeste_napier@rush.edu

Srinivasa Doddamane Narasipura

Dept of Immunology/Microbiology Rush University 1735 W Harrison Street Chicago, IL 60612 srinivasa_narasipura@rush.edu

Avindra Nath

National Institutes of Health, NINDS 9000 Rockville Pike 10 Center Drive, Bldg 10/Room 7C103, Bethesda, MD 20892 natha@ninds.nih.gov

Richard J Noel Jr

Ponce School of Medicine Department of Biochemistry 395 Industrial Reparada, Zona 2 Ponce, PR 717 rnoel@psm.edu

Michael Nonnemacher

Drexel University College of Medicine 245 N. 15th Street Philadelphia, PA 19102 michael.nonnemacher@drexelmed.edu

Anantha Ram Nookala

Division of Pharmacology University of Missouri Kansas City 2464, Charlotte St., HSB 3207 Kansas City, MO 64110 anfh3@mail.umkc.edu

Nicole Alia Northrop

Univ of Toledo College of Medicine 3000 Arlington Ave, Mail Stop #1007 Toledo, OH 43614 nicole.fazo@utoledo.edu

Michael Olin

University of Minnesota Department of Pediatrics 540 Delaware St. SE Minneapolis, MN 55455 olin0012@umn.edu

Nirzari Parikh

Drexel University College of Medicine 245 N. 15th Street Philadelphia, PA 19102 np344@drexel.edu

Minseon Park

Dept. of Biochem & Molecular Biology Univ of Miami School of Medicine 1011 NW 15th St. Gautier Bldg room. 528B Miami, FL 33136 mspark@med.miami.edu

Rahul V Pawar

Imaging Consultants of Essex Saint Barnabas Medical Center 77 Park Avenue Hoboken, NJ 7030 rvp325@yahoo.com

Juliana Perez-Laspiur

University of Puerto Rico, Medical Sciences Campus Department of Microbiology A-367 San Juan, Puerto Rico 936 jplaspiur@gmail.com

Yuri Persidsky

Temple University School of Medicine 3500 North Broad Street Pathology Room 842MERB Philadelphia, PA 19140 yuri.persidsky@tuhs.temple.edu

Amanda Lee Persons

Rush University Medical Center 1735 W Harrison Street, Cohn 463 Chicago, IL 60612 amanda_I_persons@rush.edu

Francesca Peruzzi

Cancer Center at LSU Health Sciences Center 533 Bolivar Street New Orleans, LA 70131 fperuz@lsuhsc.edu

Adolf Pfefferbaum

SRI International 333 Ravenswood Avenue, BN168 Menlo Park, CA 94025 dolf@synapse.sri.com

Sudheesh Pilakka-Kanthikeel

Institute of NeuroImmune Pharamcology, Dept of Immunology, Florida International University 11200 SW 8th St, HLS 1 Miami, FL 33174 spilakka@fiu.edu

Elizabeth Mary Podhaizer

Dept. of Pharmacology & Toxicology Virginia Commonwealth University 410 N. 12th Street, Rm. 746 Richmond, VA 23298 podhaizere@mymail.vcu.edu

Raghava Potula

Pathology and Laboratory Medicine 3500 N Broad Street, MERB 854A

Philadelphia, PA 19140 raghava.potula@tuhs.temple.edu

Servio Heybert Ramirez

Temple Univ School of Medicine Dept of Pathology & Lab. Medicine 3500 N. Broad Street, MERB 844 Philadelphia, PA 19140 servio@temple.edu

Tariq Rana

Sanford Burnham Med. Res. Institute 10901 N. Torrey Pines Rd. La Jolla, CA 92037 United States trana@sanfordburnham.org

Kesava Rao

Immunology Department, Herbert Wertheim College of Medicine -Florida International University 11200 SW 8th St, AHC1-308 Miami, FL, 33199 krao@fiu.edu

Andrea Raymond

Immunology Department, Herbert Wertheim College of Medicine -Florida International University 11200 SW 8th St, AHC1-308 Miami, FL 33199 liortiz@fiu.edu

Linda Rivera

Department of Microbiology UPR Medical Science Campus San Juan, PR. 00936 linda.rivera2@upr.edu

Vanessa Rivera-Amill

Department of Microbiology Ponce School of Medicine 395 Zona Industrial Reparada 2 Ponce, PR 716 vrivera@psm.edu

Yainyrette Rivera-Rivera

Department of Microbiology Ponce School of Medicine 388 Zona Industrial Reparada 2 Ponce, PR 716 yainyrr@yahoo.com

Robert Bryan Rock

University of Minnesota McGuire Translational Res. Facility 2001 6th Street SE Minneapolis, MN 55455 rockx012@umn.edu

Jose W. Rodriguez

Universidad Central del Caribe School of Medicine P.O. Box 60327 Bayamon, PR 960 United States jwrodriguez@uccaribe.edu

Madeline Rodriguez

Biomedical Proteomics Facility Universidad Central del Caribe School of Medicine Ave. Laurel, Sta. Juanita Bayamon, PR 00956 rodriguez_madeline@yahoo.com

Thomas J Rogers

Temple University School of Medicine 3500 N. Broad Street, CILR Philadelphia, PA 19140 rogerst@temple.edu

Slava Rom

Temple University School of Medicine 3500 North Broad Street Pathology-8th Floor MERB Philadelphia, PA 19140 slava.rom@temple.edu

Robert Francis Roscoe

University of South Carolina 457 Lake Estate Dr Chapin, SC 29036 roscoerf@email.sc.edu

Jessica Helen Rotschafer

Veterinary Population Medicine, University of Minnesota 1365 Gortner Ave, 225 VMC North St. Paul, MN 55110 rots0006@umn.edu

Sabita Roy

University of Minnesota 425 Delaware St Minneapolis, MN 55455 royxx002@umn.edu

Summer J Rozzi

Georgetown University Department of Neuroscience 3801 Newark St NW #C429 Washington, DC 20016 sjr65@georgetown.edu

Vidya Sagar

Ctr for Personalized Nanomedicine Institute of NeuroImmune Pharm. Florida International University 1200 SW 8th St, University Park Miami, FL 33199 vsaga001@fiu.edu

Dipak K Sarkar

Endocrine Program, Rutgers Univ 67 Poultry Farm Lane New Brunswick, NJ 8901 sarkar@aesop.rutgers.edu

Scott James Schachtele

University of Minnesota 2001 6th St. SE Minneapolis, MN 55455-3007 sjschach78@gmail.com

Christina Joanne Schier

Department of Pharm. & Toxicology Virginia Commonwealth University P.O. Box 980613 Richmond, VA 23298 cjschier@vcu.edu

Annabell C Segarra

University of Puerto Rico, School of Medicine, Dept of Physiology PO Box 365067 San Juan, PR 00936-5067 annabell.segarra@upr.edu

Christian Sell

Drexel University College of Medicine Department of Pathology 245 N 15th Street, Room 5605 Philadelphia, PA 19102 christian.sell@drexelmed.edu

Satarupa Sen

Temple University 1220 North Broad Street Philadelphia, PA 19121 satarupa.temple@gmail.com

Horacio Serrano

Univ. of Puerto Rico, Med. Sciences Dept of Biochemistry Office A-620-C PO Box 365067 San Juan, Puerto Rico 936 horacio.serrano@upr.edu

Ankit Shah

University of Missouri-Kansas City 2464 Charlotte St Kansas City, MO 64108 abs9t2@umkc.edu

Umakant Sharma

Department of Surgery University of Minnesota 11-197 Moos Tower, MMC 195, 420 Delaware Street SE Minneapolis, MN 55455 usharma@umn.edu

Wen S Sheng

University of Minnesota 3-430 TRF, 2001 6th St. SE Minneapolis, MN 55455 sheng008@umn.edu

Peter Steven Silverstein

University of Missouri-Kansas City 2464 Charlotte Street Kansas City, MO 64108 silversteinp@umkc.edu

Gregory Michael Sindberg

University of Minnesota 11-196 Malcolm Moos Tower 515 Delaware St. SE Minneapolis, MN 55455 sind0017@umn.edu

Pravin C Singhal

Hofstra North Shore LIJ Med. School Div. Kidney Disease & Hypertension 100 Community Drive Great Neck, NY 11021 singhal@lij.edu

Mohan Sopori

Immunology Division, Lovelace Respiratory Research Institute 2425 Ridgecrest Dr., SE Albuquerque, NM 87108 msopori@Irri.org

Mary Ellen Sorrell

Dept. of Pharm. & Toxicology Virginia Commonwealth University 1320 Perry St. Richmond, VA 23224 sorrellme@vcu.edu

Eliot R Spindel

OHSU-ONPRC 505 NW 185th Ave Beaverton, OR 97007 SPINDELE@OHSU.EDU

Marianne Strazza

Drexel University College of Medicine 245 N. 15th Street Philadelphia, PA 19102 mstrazz@gmail.com

Edith V Sullivan

Stanford University School of Med. Psychiatry & Behavioral Sciences 401 Quarry Road Stanford, CA 94305-5723 edie@stanford.edu

Shao-Jun Tang

Dept Neuroscience and Cell Biology University of Texas Medical Branch 301 Univ. Blvd Galveston, TX 77555 shtang@utmb.edu

Sophie Xu Teng

LSU Health Sciences Center Physiology Department 1901 Perdido St. Rm 7205 New Orleans, LA 70112 xteng@lsuhsc.edu

Samikkannu Thangavel

Florida International University 11200 SW 8th St AHC2-693 Miami, FL 33199 Liortiz@fiu.edu

Michal Toborek

Univ of Miami School of Medicine 1011 NW 15th Street Gautier Bldg. Room 517 Miami, FL 33155 mtoborek@med.miami.edu

Lilith Torres

Ponce School of Medicine 395 Zona Industrial Reparada #2 Ponce, PR 716 litorres@stu.psm.edu

Steven N. Treistman

Institute of Neurobiology University of Puerto Rico 201 Boulevard del Valle San Juan, PR 901 steven.treistman@upr.edu

Neha N Vartak

University of North Texas Health Science Center 3805 Modlin Ave. Fort Worth, TX 76107 nvartak@live.unthsc.edu

Dimitrios Nikolaos Vatakis

David Geffen School of Med., UCLA 615 Charles Young Dr South BSRB 173, M/C 736322 Los Angeles, CA 90095 dvatakis@ucla.edu

Fabian Vazquez-Santiago

Ponce School of Medicine 388 Zona Industria Reparada 2 Ponce, PR 716 fvazquezsantiago@yahoo.com

Ryan Peter Vetreno

Univ of North Carolina at Chapel Hill Bowles Center for Alcohol Studies 104 Manning Dr Chapel Hill, NC 27599-7178 rvetreno@email.unc.edu

Xu Wang

Temple University 3500 N Broad St Philadelphia, PA 19140 xuwang@temple.edu

Yi Wang

Department of Pharmacology and Experimental Neuroscience Univ of Nebraska Medical Center 985930 Nebraska Medical Center Omaha, NE 68198-5930 yi.wang@unmc.edu

Yizhong Wang

Department of Pathology Temple University School of Medicine 3500 N Broad Street, MERB 881A Philadelphia, PA 19140 yzwang@temple.edu

Wesley N Wayman

Pharmacology Department Rush University Medical Center 1735 W Harrison St Cohn Building Room 463 Chicago, IL 60612 wesley_n_wayman@rush.edu

Brian Wigdahl

Drexel University College of Medicine 245 North 15th Street Philadelphia, PA 19102 bwigdahl@drexelmed.edu

Dionna Whitney Williams

Albert Einstein College of Medicine 1300 Morris Park Avenue Forchheimer 727 Bronx, NY 10461 dionna.williams@phd.einstein.yu.edu

Kenneth C Williams

Boston College 140 Commonwealth Avenue Chestnut Hill, MA 1950 kenneth.williams.3@bc.edu

Valerie Wojna

University of Puerto Rico Medical Sciences Campus PO Box 365067 San Juan, PR 00936-5067 valerie.wojna1@upr.edu

Gretchen Wolff

University of Miami 1011 NW 15th St Miami, FL 33136 g.wolff11@med.miami.edu

Alicia Kozue Wooten

University of Rochester 601 Elmwood Ave, Box 672 Rochester, NY 14642 alicia_wooten@URMC.rochester.edu

Jagoda Krystyna Wrobel

Univ of Miami Miller School of Med Dept of Biochemistry & Mol. Biology 1011 NW 15th St., Room 528 Miami, FL 33136 jwrobel@med.miami.edu

Huangui Xiong

Department of Pharmacology and Experimental Neuroscience Univ of Nebraska Medical Center Omaha, NE 68198-5880 hxiong@unmc.edu

Bryan Yamamoto

University of Toledo College of Med Department of Neurosciences 3000 Arlington Ave, Mail Stop 1007 Toledo, OH 43614 Bryan.Yamamoto@utoledo.edu

Adriana Yndart Arias

Immunology Department, Herbert Wertheim College of Medicine -Florida International University 11200 SW 8th st AHC1-308 Miami, FL 33199 ayndarta@fiu.edu

Frances Michelle Zenon

University of Puerto Rico Medical Sciences Campus Biomedical Building I, Room #301 San Juan, PR 935 frances.zenon@upr.edu

Lixia Zhao

Univ of Nebraska Medical Center 42nd and emile street Omaha, NE 68198 Izhao@unmc.edu

Yu Zhou

Temple University School of Medicine Pathology Dept., MERB 3500 N Broad St, Room 881a Philadelphia, PA 19140 yu.zhou@temple.edu

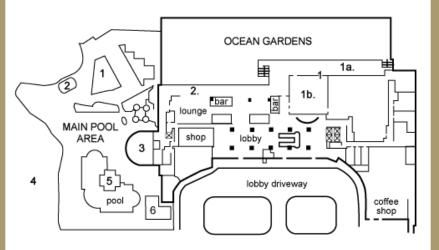
Jun Zhu

Department of Drug Discovery and Biomedical Sciences South Carolina College of Pharmacy University of South Carolina 75 Sumter St Columbia, SC 29208 zhuj@sccp.sc.edu

A special thank you to NIDA for their continued long term support for the mission of SNIP.



CONRAD SAN JUAN, CONDADO PLAZA OCEAN TOWER LOBBY LEVEL



- 1. Salt Water Pool
- 2. Jacuzzi
- 3. Pool Restaurant
- 4. Beach Area
- 5. Pool Bar
- 6. Water Slide

1. BRISAS DEL MAR AND BRISAS DEL MAR TERRACE 1a. BRISAS DEL MAR TERRACE 1b. BRISAS DEL MAR 2. ETERNAL TERRACE

CONRAD SAN JUAN, CONDADO PLAZA OCEAN TOWER MEZZANINE LEVEL

