2013 Meeting Program

International Society for Neurochemistry
Amercian Society for Neurochemistry
24th Biennial Joint Meeting

Welcome

Assemble

Collaborate

Discover

Educate

Enlighten

Stimulate

ISN
International Society
for Neurochemistry

ASN
American Society
for Neurochemistry

Journal of Neurochemistry

JNC

Journal of Neurochemistry continues to be a leading source for research into all aspects of neuroscience, with a particular focus on molecular and cellular aspects of the nervous system, the pathogenesis of neurological disorders and the development of disease specific biomarkers.

Journal metrics:

- Impact Factor: 4.337
- 5-Year Impact Factor: 4.480
- Article Influence Score: 1.426
- Submission to First Decision: ~28 Days
- Publication in Accepted Articles: 3 Days
- Publication in Early View: 31 Days

Pre-Clinical Systematic Reviews

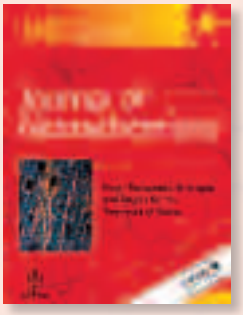
A number of pre-clinical systematic reviews have been published in *Journal of Neurochemistry*, including:

Stroke outcome in the ketogenic state – a systematic review of the animal data
Claire L. Gibson, Anne N. Murphy and Sean P. Murphy

Citicoline in pre-clinical animal models of stroke: a meta-analysis shows the optimal neuroprotective profile and the missing steps for jumping into a stroke clinical trial
Alejandro Bustamante, Dolors Giralt, Lidia Garcia-Bonilla, Mireia Campos, Anna Rosell and Joan Montaner

Special Issues

Recent Special Issues of the journal include:



Novel Therapeutic Strategies and Targets for the Treatment of Stroke

Alzheimer's Disease

Editorial Highlights

Editorial Highlights flag up selected research papers published in the journal and provide additional context on the importance or relevance of this research:

mTOR: at the crossroads of aging, chaperones, and Alzheimer's disease
Gunnar K. Gouras

full article:
Over-expression of heat shock factor 1 phenocopies the effect of chronic inhibition of TOR by rapamycin and is sufficient to ameliorate Alzheimer's-like deficits in mice modeling the disease

Reviews

Review articles are made free in *Journal of Neurochemistry* from publication – recent articles include:

Myelin Management by the 18.5-kDa and 21.5-kDa Classic Myelin Basic Protein Isoforms
George Harauz and Joan M. Boggs

New Approach for Glyco- and Lipidomics – Molecular Scanning of Human Brain Gangliosides by TLC-Blot and MALDI-TOF MS
Tania Valdes-Gonzalez, Naoko Goto-Inoue, Wakako Hirano, Hironobu Ishiyama, Takahiro Hayasaka, Mitsutoshi Setou and Takao Taki

www.jneurochemistry.org

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ISN
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Message from the Program Committee

Welcome to the 24th Biennial Meeting of the International Society for Neurochemistry (ISN) that is organized together with the American Society for Neurochemistry (ASN) in Cancun, Mexico.

The meeting includes 5 plenary lectures by distinguished neuroscientists, 37 symposia, 8 workshops and 4 Young Investigator Colloquia, all selected by the Program Committee from the many applications submitted from all over the world. In addition, 3 young excellent scientists, selected by ISN and ASN are given the opportunity to present their achievements. All of those talks together with 500 posters make a very attractive and diverse program covering all the angles of the modern neurochemistry that in fact nowadays comprises the most advanced molecular and cellular neuroscience.

As many of you know this is our second attempt to gather in Cancun and I am sure that this time it will be scientifically, culturally and socially thrilling experience in a great natural setting, allowing us to acquire and consolidate knowledge and friendship, as those have always been the hallmarks of our meetings.

On behalf of the Program Committee I wish you all great time in Mexico!

Leszek Kaczmarek, PhD
ISN Scientific Program Chair

Leszek Kaczmarek
ISN Scientific Program Chair

Tomo Shirao
Past Program Chair

Phil Beart
ISN Officer ex officio

Alois Saria
ISN Officer ex officio

Monica Carson
ISN Officer ex officio

Steve Levison
ASN President

Babette Fuss
ASN Secretary

Karen Chandross
ASN Treasurer

Angel Barco

Kevin Behar

Eduardo Candelario-Jalil

Amitabha Chattopadhyay

Carol Colton

Volker Haucke

Cecilia Hedin Pereira

Helle Waagepetersen

Xiaodong Zhang

Message from the Local Organizing Committee

Dear Colleagues,

It is our pleasure to welcome you on behalf of all the Neurochemistry Community of the Americas to Cancun, Quintana Roo, Mexico for the 24th Biennial Meeting of the International Society for Neurochemistry jointly with the American Society for Neurochemistry.

A look to the Pre-Columbian era waits for you in the whole Yucatan Peninsula, together with a vast biodiversity ensuring that your attendance will provide you with a remarkable sense of past times. A close interaction with young Mexican high school, college and graduate students and teachers will show you the strong promise of our regions scientific education.

The excellent Scientific Program that includes a balance of acclaimed and novel talented scientists, the attendance of neurochemists from all over the world will pave the way for the exchange of scientific ideas. This meeting will also be a major opportunity for the establishment of strong collaborative work within the Americas and also with other regions. Certainly, the ISN/ASN 2013 Cancun Meeting will be a great experience.

Welcome to Cancun

Arturo Ortega, PhD
ISN Local Organizing Co-Chair

Adan Aguirre, PhD
ISN Local Organizing Co-Chair

Adan Aguirre
ISN Host Committee Co- Chair

Arturo Ortega
ISN Host Committee Co- Chair

Gabriela B. Acosta

Luis Barbeito

Marcos R. Costa

Maite A. Castro Gallastegui,

Carmem Gottfried

Dr. Marines Longart

Esther López-Bayghen

Ana María López-Colomé,

Juan Carlos Martínez

Dr.Rafael Medina

João R.L. Menezes

Laura Morelli

Juana Pasquini

Rodrigo Neves Romcy-Pereira

Ricardo Augusto de Melo Reis

Alberto Javier Ramos

Rossana C. Zepeda

Cancun Convention Center

All meetings will take place at the Cancun Convention Center, located in the center of downtown Cancun, Blvd. Kukulkan Km 9

Level 1/First Floor

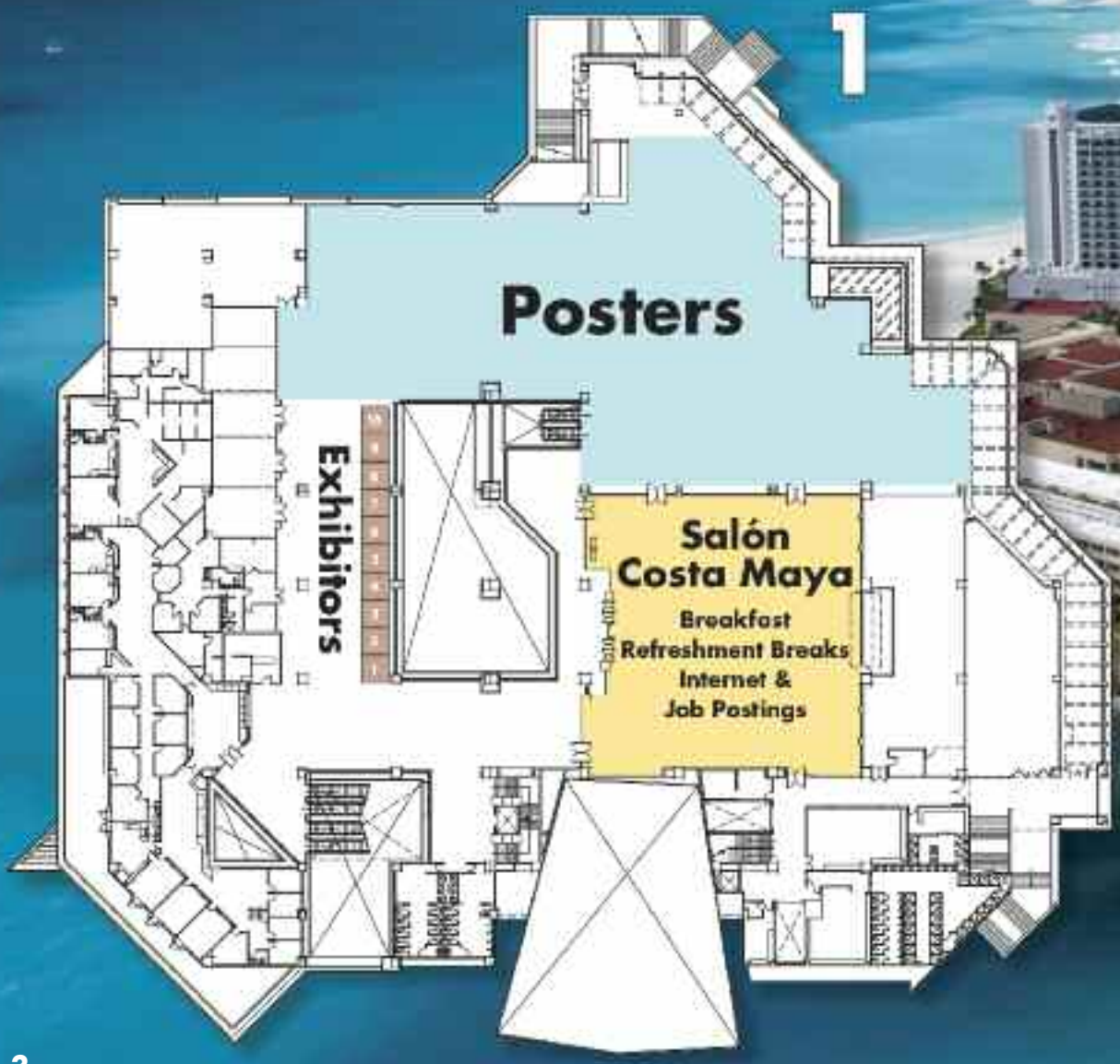
- Lobby - ISN ASN Registration Desk
- Lobby - Posters and Exhibitors
- Salón Costa Maya - Continental Breakfast, Refreshment Breaks, Internet & Job Postings

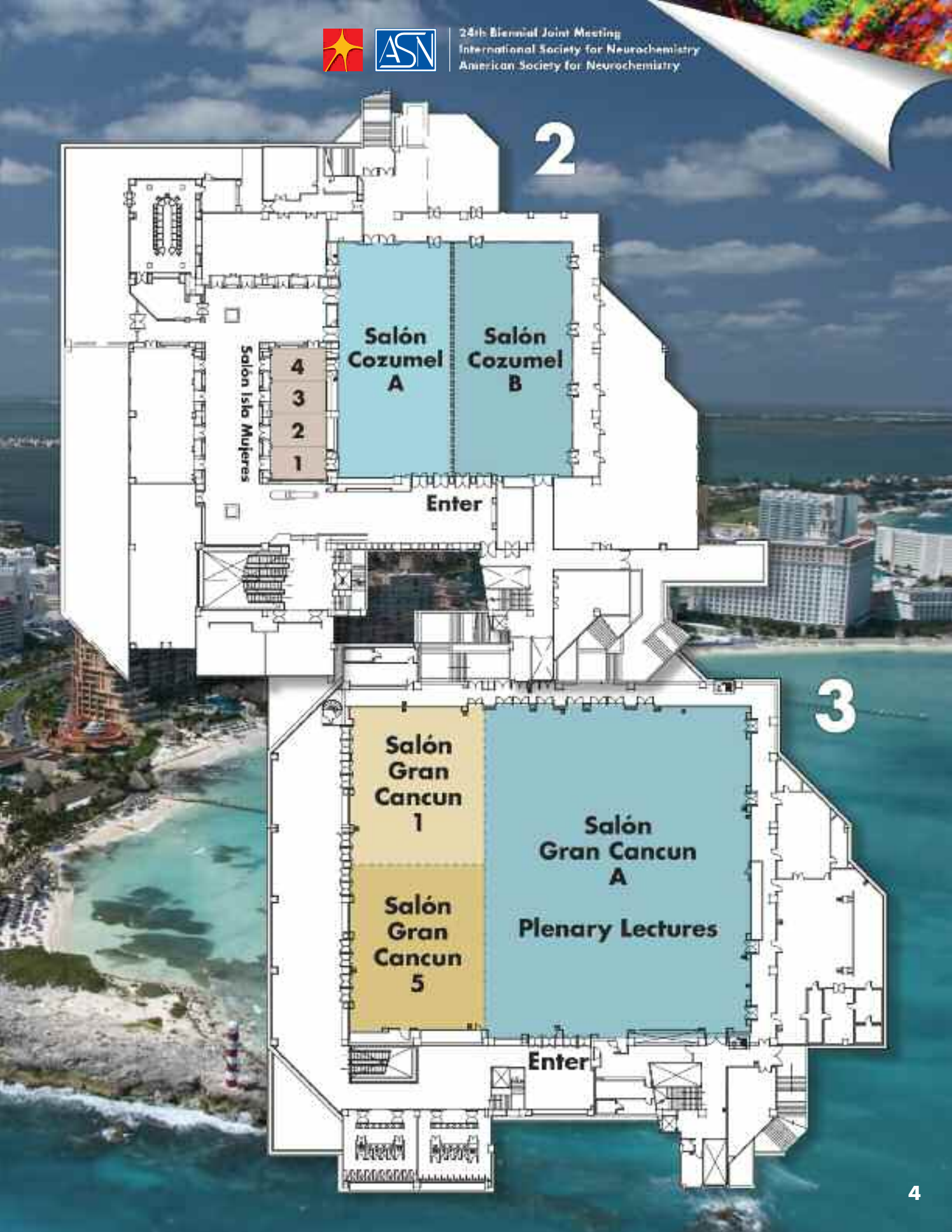
Level 2/Second Floor

- Salón Cozumel A & B - Scientific Sessions
- Salón Isla Mujeres - ISN Offices, ASN Offices, Speaker Ready Room, Lunch with Speakers

Level 3/Third Floor

- Salón Gran Cancun A - Plenary Lectures
- Salón Gran Cancun 1 & 5 - Scientific Sessions

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Salón Gran Cancun 5
Salón Gran Cancun A
Plenary Lectures
Enter

Agenda at a Glance

Saturday, April 20

12.30 – 19.00	Registration Desk Open
15.30 – 18.00	Symposia
	S00 History of Neurochemistry Co-Chairs: Frode Fonnum & George DeVries
18.15 – 19.15	Plenary Lecture PL1 Hideyuki Okano, MD, PhD Brain Science Using iPScell Technology and Transgenic Non-human Primates
20.00 – 22.00	Welcome Reception Fiesta Americana Hotel Poolside

All meetings will take place at the Cancun Convention Center, located in the center of downtown Cancun, Blvd. Kukulkan Km 9

Sunday, April 21

07.30 – 18.00	Registration Desk Open
08.30 – 09.30	Plenary Lecture PL2 Huda Y. Zoghbi, MD Disease Neurobiology: Charting the Path from Genes to Therapies
09.30 – 10.00	Young ISN Lecturer YL1: Aaron Gitler High-Throughput Genetic Screens to Define Mechanisms of Human Neurodegenerative Diseases
10.00 – 10.30	Refreshment Break
	Symposia
10.30 – 12.30	S01 Cellular & Molecular Approaches to Study Autism Spectrum Disorders Co-Chairs: C. Gottfried & M. Robinson Agramonte
	S02 Mechanisms of Memory Enhancement and Erasure Co-Chairs: Mauro Costa-Mattoli & Satoshi Kida
	S03 Mitochondrial Dysfunction and Therapy Chair: Jameel Dennis
	S04 Caffeine and Adenosine Receptors in Neurological and Neuropsychiatric Disorders Co-Chairs: Rodrigo Cunha & Francisco Ciruela
12.30 – 14.30	Lunch Provided Poster Session I
	Symposia
14.30 – 16.30	S05 Cocaine-induced BDNF Plasticity in the Developing and Mature Brain Co-Chairs: G. Sadri-Vakili & F. Fumagalli
	S06 Molecular and Neuronal Regulation of Emotional Memory Co-Chairs: Nobuhiko Kojima & Oliver Stork
	S07 Mitochondrial Dynamics in Neurodegenerative Diseases Chair: Xiongwei Zhu
	S08 Serotonin Receptors, Signaling, and Physiology Co-Chairs: P. Banerjee & M. M. Panicker
16.30 – 17.00	Refreshment Break
	Workshops
17.00 – 19.00	W01 Function and Dysfunction in the Nervous System: A Tribute to Prof. Fernando Mello Chair: Ricardo A. de Melo Reis
	W02 Role of Nrf2 in Oxidative Stress-induced Neurodegeneration Chair: Abel Santamaria
	W03 Advances in Neural Metabolism in Vivo Chair: In-Young Choi
	YIC01 Young Investigator Colloquia
19.30 – 22.30	Student/Post-Doc Mingle

Monday, April 22

07.30 – 18.00	Registration Desk Open
08.30 – 09.30	Plenary Lecture PL3 Robin Franklin, PhD Stem Cells and Myelin Regeneration
09.30 – 10.00	Young ISN Lecturer YL2 Mauro Costa-Mattioli Memory Consolidation: New Molecular and Cellular Mechanisms
10.00 – 10.30	Refreshment Break
	Symposia
10.30 – 12.30	S09 Regulation of Myelination and Remyelination Co-Chairs: Kelly Monk & Seema Tiwari-Woodruff
	S10 Regulation of Neural Circuit Formation by Extracellular Cues Co-Chairs: Michael Fox & Cagla Eroglu
	S11 Adult Neurogenesis and Neuropsychiatric Diseases Chair: Francis Szele
	S12 Novel Approaches to Reveal Brain Structure and Function Chair: Valentin Nägerl
12.30 – 14.30	Lunch Provided Poster Session I
	Symposia
14.30 – 16.30	S13 Neuron-glia Interactions and Myelinaiton Co-Chairs: Matthew Rasband & Elior Peles
	S14 Extracellular Factors in Neural Stem/Progenitor Cell Biology Chair: Holly Colognato
	S15 ABC Transporters and Central Nervous System Dysfunctions Co-Chairs: Marina Guizzetti & Davide Trotti
	S16 Strategies on Biomarkers to Diagnose Alzheimer's Disease Chair: Laura Morelli
16.30 – 17.00	Refreshment Break
	Workshops
17.00 – 19.00	W04 Animal Models of Human Disorders with Normal and Abnormal Neuroglial Interaction Co-Chairs: Araceli Espinosa-Jeffrey & K. Ikenaka
	W05 An Editors' Guide to Journal Publishing Chair: Shamus O'Reilly
	W06 Base Excision DNA Repair, Brain Aging & Neurodegenerative Diseases Chair: George M. Martin
	YIC02 Young Investigator Colloquia
19.15 – 20.30	ASN Business Meeting

Agenda at a Glance

Tuesday, April 23

07.30 – 18.00	Registration Desk Open
08.30 – 09.30	Plenary Lecture PL4 Martin Cammarota, PhD On Memory Formation and Expression
09.30 – 10.00	ASN Marian Kies Lecture YL03 Sandeep Singh, PhD How Do Astrocyte Secreted Proteins Hevin and SPARC Control CNS Synaptogenesis?
10.00 – 10.30	Refreshment Break
	Symposia
10.30 – 12.30	S17 Novel Mechanisms of Memory Co-Chairs: Karl Peter Giese & Kasia Radwanska
	S18 Metabotropic Glutamate Receptors as Promising Pharmacological Targets for Treating Diverse Human Nervous System Disorders Co-Chairs: Joseph Neale & Jean-Philippe Pin
	S19 Glial and Neuronal Control of Brain Energy Metabolism Chair: Martin Lauritzen
	S20 Regulators of Neuronal Microtubules in Development and Disease Chair: Peter Baas
12.30 – 14.30	Lunch Provided Poster Session II
12.30 – 13.30	Women in Neurochemistry Lunch
	Symposia
14.30 – 16.30	S21 Neuronal Plasticity Under Learning Challenge Chair: Martine Ammassari Teule
	S22 From Optogenetics to MicroRNA Revelations in Cholinergic Signaling Co-Chairs: Jose Diaz Bargas & Hermona Soreq
	S23 Presynaptic Active Zone Assembly and Function Chair: Nils Brose
	S24 Cellular & Molecular Mechanisms Contributing Polarity & Function of Neuronal Cells Co-Chairs: C. Gonzalez-Billault & K. Kaibuchi
16.30 – 17.00	Refreshment Break
	Workshops
17.00 – 19.00	W07 Glia-neuron Signaling: From Gliotransmission to Neurochemistry Chair: Jean-Pierre Mothet
	W08 Energy Metabolism, Synaptic Function and Neuronal Excitability Chair: Bregastovski Piotr
	YIC03 Young Investigator Colloquia
	YIC04 Young Investigator Colloquia
19.30 – 21.30	ISN Business Meeting

Wednesday, April 24

07.30 – 15.00	Registration Desk Open
08.30 – 09.30	Plenary Lecture PL5 Nancy Yuk-Yu Ip, PhD Understanding the Molecular Basis of Neural Plasticity
09.30 – 10.00	Refreshment Break
	Symposia
10.00 – 12.00	S25 The Role of PUFAs in Injured and Unhealthy Brains Chair: Jeffrey T. Cole
	S26 Metals in Neurodegeneration: Therapeutic Opportunities Chair: Kevin Barnham
	S27 Protein Kinases and Pathogenesis in Neurodegenerative Diseases Co-Chairs: Scott Brady & George Siegel
	S28 Unexpected Roles for Immune Signaling in the Healthy and Diseased Brain Co-Chairs: Jessy Alexander & Beth Stevens
12.00 – 13.30	Lunch Provided Poster Session II
	Symposia
13.30 – 15.30	S29 Multi-mode Actions of Botanical Polyphenols Against Neurodegenerative Diseases Co-Chairs: Grace Sun & Zezong Gu
	S30 Stem Cells and Biomaterials for the Treatment of Spinal Cord Injury Co-Chairs: Eva Sykova & Jeffery Kocsis
	S31 Synaptic Scaffold Proteins in Normal and Pathological Behavior Chair: Chiara Verpelli
	S32 The Neurovascular Unit and Immune Cell Trafficking in the CNS Chair: James Waschek
15.30 – 16.00	Refreshment Break
	Symposia
16.00 – 18.00	S33 Diverse Pathways for Pathological Glutamate Release in the CNS Co-Chairs: Alex Mongin & Sandra Hewett
	S34 Phagocytic Roles of Glia in CNS Physiology and Pathology Chair: Jonathan Kipnis (Jordi Folch-Pi)
	S35 Determining Axonal Laterality in the CNS: New Views Emerging from an Old Topic Co-Chairs: Eloisa Herrera & Carol Mason
	S36 Diabetes and the Brain Chair: Susan Vannucci
19.30 – 23.30	Farewell Reception & Fiesta Dinner, Mayan Show & Dancing

Saturday, April 20, 2013

08:00 – 16:00	ISN Council Meeting I	Coral Island Room, Fiesta Americana
12:00 – 17:00	ASN Council Meeting I	Coral Sea Room, Fiesta Americana
13:00 – 19:00	ISN-ASN Registration Desk	Level 1
13:30 – 17:00	Speaker Ready Room	Isla Mujeres 2
15:30 – 18:00	Scientific Sessions	Cozumel A

Cozumel A

Symposia S00
HISTORY OF NEUROCHEMISTRY
Co-Chairs: Frode Fonnum & George DeVries

S00-01 MAYA TRADITIONAL MEDICINE IN 2012, THE END OR A NEW BEGINNING?
B. M. Vera-Ku
University of Yucatan/MEXICO

S00-02 COINING THE BASIC TERMS OF NEUROCHEMISTRY
A. I. Boullerne
University of Illinois at Chicago/USA

S00-03 NEUROCHEMISTRY AND TISSUE CULTURE: FOUNDING FATHERS AND CARDINAL CONTRIBUTIONS
G. H. DeVries
McGuire VA Medical Center/USA

S00-04 ASBJORN FELLINGS DISCOVERY OF "IMBECILITAS PHENYLPYROUVICA" - PHENYLKETONURIA
G. I. Folling Elgio
University Hospital of Northern Norway/NORWAY

S00-05 NEUROCHEMISTRY STUDIED WITH THE MICROCHEMICAL METHODS OF OLIVER H. LOWRY
D. A. Godfrey
University of Toledo College of Medicine/USA

18:00 – 19:15	Welcome Remarks & Introductions Philip Beart, ISN President Steve Levison, ASN President Travel Award Winners Recognition PL1- Plenary Lecture Brain Science Using iPS cell Technology and Transgenic Non-Human Primates Hideyuki Okano, MD, PhD	Gran A - Level 3
20:00 – 22:00	ISN-ASN President's Welcome Reception	Fiesta Americana Poolside

ISN - ASN Welcomes the Following Exhibitors

ASN NEURO
Elsevier
International Society for Neurochemistry
Merck-Millipore
Renovo Neural Inc.
Springer Science
Tocris Bioscience
Wiley-Blackwell

Sunday, April 21, 2013

07:30 – 18:00	ISN-ASN Registration Desk	Level 1
07:30 – 11:00	Speaker Ready Room	Isla Mujeres 2
08:00 – 09:00	Continental Breakfast	Costa Maya - Level 1
07:30 – 19:00	Internet/Recharging Station - Sponsored By Wiley	Costa Maya - Level 1
08:00 – 19:00	Poster Session I Set Up Posters Between 07:30 - 08:00, Authors Present 13:30 - 14:30	Level 1
08:30 – 09:30	Welcome & Introductions Alos Saria, ISN Treasurer & President-Elect PL2 Plenary Lecture Huda Y. Zoghbi, MD **Disease Neurobiology: Charting the Path from Genes to Therapies**	Gran A - Level 3
09:30 – 10:00	Young ISN Lecturer YL1 Aaron Gitler **High-Throughput Genetic Screens to Define Mechanisms of Human Neurodegenerative Diseases**	Gran A - Level 3
10:00 – 10:30	Refreshment Break	Costa Maya - Level 1
10:30 – 12:30	Scientific Sessions	

Gran 1

Symposia S01
CELLULAR & MOLECULAR APPROACHES TO STUDY AUTISM SPECTRUM DISORDERS
Co-Chairs: Carmen Gottfried & Maria Robinson Agramonte

S01-01 AUTISM SPRECTRUM DISORDERS: UPDATING THE CLINICAL APPROACH
Riesgo, Rudimar
UFRGS/BRAZIL

S01-02 CURRENT ASPECTS ON AUTISM-ASSOCIATED BIOMOLECULAR MARKERS
Robinson-Agramonte, Maria
International Center for Neurological Restoration/CUBA

S01-03 THE ISLAND OF AUTISM: BUILDING BRIDGES THROUGH EXPERIMENTAL RESEARCH
Gottfried, Carmem
International Center for Neurological Federal University of Rio Grande do Sul/USA

S01-04 IS THERE A LINK BETWEEN IMMUNE DYSFUNCTION AND AUTISM?
Ashwood, P.
USA

Gran 5

Symposia S02
MECHANISMS OF MEMORY ENHANCEMENT AND ERASURE
Co-Chairs: Mauro Costa-Mattoli & Satoshi Kida

S02-01 RELATIVE CHANGES OF INTRINSIC EXCITABILITY ARE SUFFICIENT FOR PREFERENTIAL RECRUITMENT OF NEURONS INTO A FEAR MEMORY TRACE
Yiu, Adelaide
Hospital for Sick Children/CANADA

S02-02 ENHANCEMENT OF FEAR MEMORY AFTER RETRIEVAL
Kida, Satoshi
Tokyo University of Agriculture/JAPAN

S02-03 NOTHING LIKE THE FIRST TIME; MECHANISMS OF FIRST AND SUBSEQUENT LEARNING CAN DIFFER SUBSTANTIALLY
Nader, Karim
McGill University/CANADA

S02-04 IMMUNE MOLECULES IN SYNAPTIC PLASTICITY, NETWORK RHYTHMICITY AND ENHANCED COGNITION
Costa-Mattioli, Mauro
Baylor College of Medicine/USA

Cozumel A

Symposia S03
MITOCHONDRIAL DYSFUNCTION AND THERAPY
Chair: Jameel Dennis

S03-01 AMPK-MEDIATED RESPONSE OF HUMAN CELLS TO OXIDATIVE STRESS ELICITED BY PATHOGENIC MITOCHONDRIAL DNA MUTATION
Wei, Yau-Huei
National Yang-Ming University/TAIWAN

S03-02 MECHANISMS OF AXONAL DAMAGE IN MULTIPLE SCLEROSIS
Haines, Jeffery
Mount Sinai School of Medicine/USA

S03-03 MITOCHONDRIAL DYSFUNCTION IN ALZHEIMER'S DISEASE AND NASCENT BIOENERGETIC THERAPIES
Onyango, Isaac
Gencia Corporation/USA

S03-04 MODELING AND TREATING THE METABOLIC SEQUELAE OF MITOCHONDRIAL RESPIRATORY CHAIN DYSFUNCTION IN CAENORHABDITIS ELEGANS
Falk, Marni
Univ of Pennsylvania Perelman School of Medicine/USA

Cozumel B

Symposia S04
CAFFEINE AND ADENOSINE RECEPTORS IN NEUROLOGICAL AND NEUROPSYCHIATRIC DISORDERS
Co-Chairs: Rodrigo Cunha & Francisco Ciruela

S04-01 CAFFEINE AND ADENOSINE RECEPTOR CONTROLLING STRESS ACTIVATED PATHWAYS: A WINDOW FOR DEPRESSION
Lopes, Luisa
Instituto de Medicina Molecular/PORTUGAL

S04-02 THE JANUS FACE OF CAFFEINE
Porciúncula, Lisiane
Universidade Federal do Rio Grande do Sul/BRAZIL

S04-03 ADENOSINE RECEPTOR HETEROMERIZATION AND CONTROL OF DOPAMINERGIC FUNCTION AND DYSFUNCTION: FOCUS ON PARKISON'S DISEASE
Ciruela, Francisco
Departament de Patologia i Terapèutica Experimental/SPAIN

S04-04 MECHANISMS OF ADENOSINE MEDIATED CONTROL OF NEURODEGENERATION: COMBINED CONTROL OF CA, MITOCHONDRIA AND GLUTAMATE
Cunha, Rodrigo
University of Coimbra/PORTUGAL

Sunday, April 21, 2013

12:30 – 14:30	Lunch Provided / Lunch Ticket #1 - Visit Exhibitors	Costa Maya - Level 1
12:30 – 14:30	ASN NEUR*O* Editorial Board Meeting	Fiesta Americana Coral Kingdom 1 - 2
12:30 – 13:30	Lunch with Plenary Speaker - Dr. Zoghbi Sponored by NINDS & ISN Advance Reservation Required - Sign Up At ISN-ASN Registration Desk	Isla Mujeres 2
13:30 – 14:30	Poster Session I - Authors Present	Level 1
14:30 – 16:30	Scientific Sessions	

Gran 1

Symposia S05
COCAINE-INDUCED BDNF PLASTICITY IN THE DEVELOPING AND MATURE BRAIN
Co-Chairs: G. Sadri-Vakili & Fabio Fumagalli

S05-01 INTRA-PFC BDNF SUPPRESSES COCAINE-SEEKING BY RESCUING ERK MAPK AND CREB SIGNALING
McGinty, Jacqueline
Medical University of South Caroliina/USA

S05-02 CELL TYPE SPECIFIC DELETION OF THE BDNF RECEPTOR IN STRIATUM MEDIATES OPPOSITE BEHAVIORAL RESPONSES TO COCAINE
Lobo, Mary Kay
University of Maryland School of Medicine/USA

S05-03 ADOLESCENT EXPOSURE TO COCAINE DYNAMICALLY ALTERS BDNF EXPRESSION IN THE RAT BRAIN
Fumagalli, Fabio
University of Milan/ITALY

S05-04 ALTERATIONS IN THE EPIGENOME AND BDNF EXPRESSION IN RESPONSE TO SELF-ADMINISTRATION OR IN UTERO EXPOSURE TO COCAINE ARE HERITABLE
Sadri-Vakili, Ghazaleh
Massachusetts General Hospital/USA

Gran 5

Symposia S06
MOLECULAR AND NEURONAL REGULATION OF EMOTIONAL MEMORY
Co-Chairs: Nobuhiko Kojima & Oliver Stork

S06-01 EMOTIONAL TAGGING: A SIMPLE CONCEPT - A COMPLEX REALITY
Richter-Levin, Gal
University of Haifa/ISREAL

S06-02 MOLECULAR MECHANISMS OF FEAR MEMORY CONSOLIDATION: GENES, CELLS AND NETWORKS
Stork, Oliver
Otto-von-Guericke-University Magdeburg/GERMANY

S06-03 SYNAPTIC VULNERABILITY AND DISRUPTION OF POSTSYNAPTIC DREBRIN-ACTIN COMPLEX
Kojima, Nobuhiko
Gunma University Graduate School of Medicine/JAPAN

S06-04 A FUNCTIONAL CONNECTOME FOR LONG-TERM FEAR MEMORY IN THE MOUSE
Frankland, Paul
Sickkids/CANADA

Cozumel A

Symposia S07
MITOCHONDRIAL DYNAMICS IN NEURODEGENERATIVE DISEASE
Chair: Xiongwei Zhu

S07-01 MITOCHONDRIAL DYNAMICS AS A NOVEL THERAPEUTIC TARGET FOR ALZHEIMER'S DISEASES
Zhu, Xiongwei
Case Western Reserve University/USA

S07-02 ABETA OLIGOMERS AND IRON STIMULATE CALCIUM AND ROS-DEPENDENT MITOCHONDRIAL FRAGMENTATION IN PRIMARY HIPPOCAMPAL NEURONS
Hidalgo, Cecilia
Universidad de Chile/CHILE

S07-03 AUTOPHAGY PREVENTS THE ENTRY OF MITOCHONDRIA CARRYING PATHOGENIC MUTANTS OF OPA1 IN RETINAL GANGLION CELLS NEURITES
Scorrano, Luca
University of Geneva/SWITZERLAND

S07-04 MOLECULAR REGULATION OF FUNDC1 MEDIATED MITOCHONDRIAL AUTOPHAGY
Chen, Quan
Chinese Academy of Sciences/CHINA

Cozumel B

Symposia S08
SEROTONIN RECEPTORS, SIGNALING AND PHYSIOLOGY
Co-Chairs: Probal Banerjee & Mitradas Panicker

S08-01 5-HT2A RECEPTOR SIGNALING
Panicker, Mitradas
National Centre for Biological Sciences/INDIA

S08-02 ROLE OF MEMBRANE CHOLESTEROL IN SEROTONIN1A RECEPTOR FUNCTION
Chattopadhyay, Amitabha
Centre for Cellular & Molecular Biology/INDIA

S08-03 THE 5-HT1A RECEPTOR AS A GENETIC AND PRENATAL MATERNAL ENVIRONMENTAL RISK FACTOR IN ANXIETY
Toth, Miklos
Weill Cornell Medical College/USA

S08-04 5-HT1A RECEPTOR AND NEONATAL HIPPOCAMPAL DEVELOPMENT
Banerjee, Probal
The College of Staten Island (CUNY)/USA

16:30 – 17:00	Refreshment Break	Costa Maya - Level 1

Sunday, April 21, 2013

17:00 – 19:00 Scientific Sessions

Gran 1

Workshop W01
FUNCTION AND DYSFUNCTION IN THE NEROUS SYSTEM: A TRIBUTE TO PROF. FERNANDO MELLO
Chair: Ricardo A. de Melo Reis

W01-01 DOPAMINE MODULATES SRC KINASE AND NMDA RECEPTOR PHOSPHORYLATION IN RETINAL CELLS TROUGH D1 RECEPTORS AND A PKA/CSK PATHWAY
Paes-de-Carvalho, Roberto
Federal Fluminense University/BRAZIL

W01-02 ATP RECEPTORS AND SIGNALING PATHWAYS INVOLVED IN THE PROLIFERATION OF LATE DEVELOPING RETINAL PROGENITORS
Ventura, Ana
Universidade Federal Fluminese/BRAZIL

W01-03 EXCITOTOXICITY-MEDIATED DEGENERATION OF SPINAL CORD MOTOR NEURONS IN VIVO
Tapia, Ricardo
Universidad Nacional Autonoma de Mexico/MEXICO

W01-04 THE PRION PROTEIN: A PROTOTYPICAL CELL SURFACE SCAFFOLD PROTEIN
Linden, Rafael
Universidade Federal do Rio de Janeiro/BRAZIL

W01-05 INHIBITION OF CHOLINE ACETYLTRANSFERASE AS A MECHANISM FOR CHOLINERGIC DYSFUNCTION INDUCED BY AMYLOID-ß PEPTIDE OLIGOMERS
Ferreira, Sergio
UFRJ - Biophysics Institute/BRAZIL

W01-06 SYNAPTOTOXIC ABETA OLIGOMERS: A MOLECULAR BASIS FOR THE CAUSE, DIAGNOSIS, AND TREATMENT OF ALZHEIMER'S DISEASE
Klein, William
Northwestern University/USA

Gran 5

Workshop W02
ROLE OF Nrf2 IN OXIDATIVE STRESS-INDUCED NEURODEGENERATION
Chair: Abel Santamaria

W02-01 NRF2 IS A NEW THERAPEUTIC TARGET TO SLOW PROGRESSION OF PARKINSON'S DISEASE
Cuadrado, Antonio
Autonomous University of Madrid/SPAIN

W02-02 FRACTALKINE ACTIVATES THE Nrf2 TO MODULATE GLIAL ACTIVATION IN RESPONSE TO TAU P301L: IMPLICATIONS IN ALZHEIMER'S DISEASE
Lastres-Becker, Isabel
Departamento de Bioquímica e Instituto de Investigaciones Biomédicas "Alberto Sols" CSIC-UAM, Madrid, Spain

W02-03 ARE ASTROCYTES FROM OLD ANIMALS STILL CAPABLE TO ACTIVATE NRF-2 AND BUILD UP AND ANTIOXIDANT RESPONSE?
Konigsberg, Mina
Universidad Autonoma Metropolitana-Iztapala/MEXICO

W02-04 NRF2 IN TOXIC MODELS OF DEGENERATIVE DISORDERS: AN APPROACHE TO PARKINSON'S AND HUNTINGTON'S DISEASE
Ali, Syed
National Center for Toxicological Research/USA

Cozumel A

Workshop W03
ADVANCES IN NEURAL METABOLISM IN VIVO
Chair: In-Young Choi

W03-01 ADVANCES IN NEURAL METABOLISM IN VIVO
Choi, In-Young
University of Kansas Medical Center/USA

W03-02 ADVANCES IN IN VIVO MR TECHNIQUES FOR NEURAL METABOLISM STUDIES
Lee, Phil
University of Kansas Medical Center/USA

W03-03 STUDY OF BRAIN ACTIVITY AND ENERGETICS USING IN VIVO OXYGEN-17 MRS IMAGING
Chen, Wei
University of Minneota/USA

W03-04 NEUROGLIAL METABOLIC COMPARTMENTATION DURING HYPOTHALAMIC ACTIVATION
Cerdan, Sebastian
CSIC/SPAIN

W03-05 METABOLIC COMPARTMENTATION IN NEURONS AND ASTROCYTES: LESSONS FROM CARBON-13 LABELING STUDIES
Schousboe, Arne
University of Copenhagen/DENMARK

Cozumel B

YIC01
YOUNG INVESTIGATOR COLLOQUIA 1

YIC01-01 GENOMIC LANDSCAPE OF TRANSCRIPTIONAL AND EPIGENETIC DYSREGULATION IN A MOUSE MODED OF EARLY ONSET HUNTINGTON'S DISEASE
L. M. Valor
Instituto de Neurociencias/SPAIN

YIC01-02 TRANSGLUTAMINASE INHIBITION ABROGATES OXIDATIVE STRESS-MEDIATED AND EXCITOTOXIC DEATH: A NEW EPIGENETIC MODULATOR ON THE CNS BLOCK
M. Basso
Weill Medical College/USA

YIC01-03 BISPHENOL-A DECREASES THE HIPPOCAMPAL NEUROGENESIS THROUGH INHIBITION OF Wnt PATHWAY
R. K. Chaturvedi
CSIR-Indian Institute of Toxicology Research/INDIA

YIC04-04 NEUROFILAMENT HEAVY CHAIN: A POTENTIAL SERUM MARKER OF NEUROAXONAL DAMAGE IN ACUTE STROKE
J. Sellner
Paracelsus Medical University/AUSTRIA

19:30 – 22:30 Student & Post - Doc Mingle — Mandala Club Palapa
Sponsored by Sanofi - Wristband Required

Monday, April 22, 2013

07:30 – 18:00	ISN-ASN Registration Desk	Level 1
07:30 – 11:00	Speaker Ready Room	Isla Mujers 2
08:00 – 09:00	Continental Breakfast	Costa Maya - Level 1
07:30 – 19:00	Internet/Recharging Station - Sponsored By Wiley	Costa Maya - Level 1
08:00 – 19:00	Poster Session I Authors Present 13:30 - 14:30	Level 1
08:30 – 09:30	Welcome & Introductions Monica Carson, ISN Secretary PL3 Plenary Lecture Robin Franklin, MD **Stem Cells and Myelin Regeneration**	Gran A - Level 3
09:30 – 10:00	Young ISN Lecturer YL2 Mauro Costa-Mattioli **The GATE of memory storage: a molecular and cellular perspective**	Gran A - Level 3
09:00 – 13:30	Introducing Neurochemistry to Young Scientists Students from La Salle University Sponsored by ASN-ISN	Isla Mujeres 3-4 Level 2
10:00 – 10:30	Refreshment Break	Costa Maya - Level 1
10:30 – 12:30	Scientific Sessions	

Gran 1

Symposia S09
REGULATION OF MYELINATION AND REMYELINATION
Co-Chairs: Kelly Monk & Seema Tiwari-Woodruff

S09-01 ROLE OF SEX CHROMOSOMES AND SEX HORMONES ON MYELINATION
Tiwari-Woodruff, Seema
UCLA School of Medicine/USA

S09-02 ADHESION-G PROTEIN-COUPLED RECEPTOR SIGNALING IN MYELINATION
Monk, Kelly
Washington University School of Medicine/USA

S09-03 FULL-LENGTH AND FURIN-SHED DYSTROGLYCAN CONTRIBUTES TO THE INITIAL FORMATION OF PERIPHERAL NODES OF RANVIER
Feltri, Maria Laura
SUNY at Buffalo/USA

S09-04 AXON/OLIGODENDROCYTE INTERACTIONS DURING CENTRAL NERVOUS SYSTEM DEMYELINATION AND REPAIR
Lubetzki, Catherine
UPMC, Inserm/FRANCE

Gran 5

Symposia S10
REGULATION OF NEURAL CIRCUIT FORMATION BY EXTRACELLULAR CUES
Co-Chairs: Michael Fox & Cagla Eroglu

S10-01 ASTROCTES ORCHESTRATE DENDRITIC SPINE FORMATION AND MATURATION
Eroglu, Cagla
Duke University Medical Center/USA

S10-02 SYNAPSE MATURATION BY ACTIVITY-DEPENDENT ECTODOMAIN SHEDDING OF SIRPα
Umemori, Hisashi
University of Michigan Medical School/USA

S10-03 ASTROCYTE REGULATION OF SYNAPTIC STRENGTH
Allen, Nicola
Salk Institute for Biological Studies/USA

S10-04 THE COMPLEMENT FAMILY COMPLEMENTS SYNAPSES IN THE CENTRAL NERVOUS SYSTEM
Yuzaki, Michisuke
Keio University School of Medicine/JAPAN

Cozumel A

Symposia S11
ADULT NEUROGENESIS AND NEUROPSYCHIATRIC DISEASES
Chair: Francis Szele

S11-01 THE HUMAN SUBVENTRICULAR ZONE IN NEUROPSYCHIATRIC DISEASE
Szele, Francis
University of Oxford/UK

S11-02 NEW HORIZONS FOR NEW NEURONS: THE IMPORTANCE OF ADULT HIPPOCAMPAL NEUROGENESIS IN ADDICTION
Eisch, Amelia
UT Southwestern Medical Center/USA

S11-03 NKCC1 KNOCKDOWN DECREASES NEURON PRODUCTION THROUGH GABAA-REGULATED NEURAL PROGENITOR PROLIFERATION AND DELAYS DENDRITE GROWTH
Bordey, Angelique
Yale School of Medicine/USA

S11-04 HUMAN ADULT NEUROGENIC ASTROCYTES: TOWARDS THEIR RECRUITMENT FOR BRAIN REPAIR
Hol, Elly
Netherlands Insititute for Neuroscience/NETHERLANDS

Cozumel B

Symposia S12
NOVEL APPROACHES TO REVEAL BRAIN STRUCTURE AND FUNCTION
Chair: Valentin Nägerl

S12-01 A NANOSCALE VIEW INTO THE DYNAMIC OF AMPA RECEPTOR ORGANIZATION IN SYNAPSES
Choquet, Daniel
CNRS/Université Bordeaux Segalen/FRANCE

S12-02 DUAL-COLOR NANOSCALE IMAGING OF SYNAPSES AND GLIA CELLS IN LIVING BRAIN SLICES USING STED MICROSCOPY
Nägerl, Valentin
CNRS / Université Bordeaux Segalen/FRANCE

S12-03 TWO-PHOTON OPTOGENETICS OF DENDRITIC SPINES AND NEURONAL CIRCUITS IN THREE DIMENSIONS
Yuste, Rafael
Columbia University/USA

S12-04 A 2-PHOTON ACOUSTO-OPTIC LENS MICROSCOPE FOR HIGH-SPEED 3D IMAGING OF NEURAL ACTIVITY
Silver, Angus
UCL/UK

Monday, April 22, 2013

12:30 – 14:30	Lunch Provided / Lunch Ticket #2 - Visit Exhibitors	Costa Maya - Level 1
12:30 – 15:30	Journal of Neurochemistry Editorial Meeting	Fiesta Americana Coral Kingdom 2 - 3
12:30 – 13:30	Lunch with Plenary Speaker - Dr. Franklin Sponsored by NINDS & ISN Advance Reservation Required - Sign Up At ISN-ASN Registration Desk	Isla Mujeres 2
13:30 – 14:30	Poster Session I - Authors Present	Level 1
14:30 – 16:30	Scientific Sessions	

Gran 1

Symposia S13
NEURON-GLIA INTERACTIONS AND MYELINATION
Co-Chairs: G. Matthew Rasband & Elior Peles

S13-01 ROLE OF LGI4 PROTEIN IN NERVOUS SYSTEM DEVELOPMENT AND MYELINATION
Meijer, Dies
Erasmus University Medical Center/ NETHERLANDS

S13-02 MODULATING NEUROTRANSMITTER RELEASE FROM AXONS REGULATES DIFFERENTIATION AND MYELINATION BY OLIGODENDROCYTES
Chan, Jonah
UCSF/USA

S13-03 CADM4 (NECL4/SYNCAM4) IS A CELL ADHESION MOLECULE ENRICHED IN MYELINATING OLIGODENDROCYTES
Peles, Elior
Weizmann Institute of Science/ISREAL

S13-04 THREE MECHANISMS ASSEMBLE CENTRAL NERVOUS SYSTEM NODES OF RANVIER
Rasband, Matthew
Baylor College of Medicine/USA

Gran 5

Symposia S14
EXTRACELLULAR FACTORS IN NEURAL STEM/PROGENITOR CELL BIOLOGY
Chair: Holly Colognato

S14-01 REELIN AS A REGULATOR OF NEUROGENESIS AND GLIOGENESIS IN THE DEVELOPMENT OF THE TELENCEPHALON
Hedin-Pereira, Cecilia
Federal University of Rio de Janeiro/ BRAZIL

S14-02 THE ADHESION RECEPTOR DYSTROGLYCAN REGULATES THE ORGANIZATION AND GLIOGENIC CAPACITY OF THE SVZ NEURAL STEM CELL NICHE
Colognato, Holly
Stony Brook University/USA

S14-03 EXTRACELLULAR PURINE AND PYRIMIDINE NUCLEOTIDES AS LOCAL EXTRINSIC REGULATORS OF ADULT NEURAL PROGENITOR CELLS IN THE DISEASED CNS
Abbracchio, Maria
University of Milan/ITALY

S14-04 LYSOPHOSPHATIDIC ACID SIGNALLING IN NEURAL STEM/PROGENITOR CELLS AND IN NEUROTRAUMA
Pebay, Alice
University of Melbourne/AUSTRALIA

Cozumel A

Symposia S15
ABC TRANSPORTERS AND CENTRAL NERVOUS SYSTEM DYSFUNCTIONS
Co-Chairs: Marina Guizzetti & Davide Trotti

S15-01 BLOOD-SPINAL CORD BARRIER AND ABC DRUG EFFLUX TRANSPORTER ALTERATIONS IN AMYOTROPHIC LATERAL SCLEROSIS
Trotti, Davide
Thomas Jefferson University/USA

S15-02 BLOOD-BRAIN BARRIER P-GLYCOPROTEIN: A NEW TARGET FOR ALZHEIMER'S DISEASE?
Hartz, Anika
University of Minnesota/USA

S15-03 ASSESSMENT OF ABCA7 FUNCTION IN ALZHEIMER'S DISEASE MODELS
Garner, Brett
University of Wollongong/AUSTRALIA

S15-04 EFFECTS OF DEVELOPMENTAL NEUROTOXICANTS ON BRAIN ABC CHOLESTEROL TRANSPORTERS: A NEW MECHANISM OF TERATOGENESIS?
Guizzetti, Marina
University of Illinois at Chicago/USA

Cozumel B

Symposia S16
STRATEGIES ON BIOMARKERS TO DIAGNOSE ALZHEIMER'S DISEASE
Chair: Laura Morelli

S16-01 CONTRIBUTION OF COMMON GENETIC VARIATION AS POTENTIAL TARGETS FOR DIAGNOSIS AND TREATMENT OF ALZHEIMER'S DISEASE
Morelli, Laura
Fundacion Instituto Leloir (IIBBA-CONICET)/ARGENTINA

S16-02 NEUROIMAGING OF ALZHEIMER'S DISEASE (AD) WITH POSITRON EMISSION TOMOGRAPHY (PET)
Brust, Peter
Helmholtz-Zentrum Dresden-Rossendorf, Institute of Radiopharmacy/GERMANY

S16-03 CEREBROSPINAL FLUID BIOMARKERS IN ALZHEIMER'S DISEASE
Lee, Kelvin
University of Delaware/USA

S16-04 ROLE OF ADULT COMMON DISEASE IN THE DEVELOPMENT OF ALZHEIMER DISEASES: APPLICATION TO DIAGNOSTIC AND THERAPEUTIC INDICATION
Naoyuki, Sato
Osaka University/JAPAN

16:30 – 17:00	Refreshment Break	Costa Maya - Level 1

Monday, April 22, 2013

17:00 – 19:00 Scientific Sessions

Gran 1

Workshop W04
ANIMAL MODELS OF HUMAN DISORDERS WITH NORMAL AND ABNORMAL NEUROGLIAL INTERACTION
Co-Chairs: Araceli Espinosa-Jeffrey & K. Ikenaka

W04-01 NEUROPROTECTION OF MEDIUM-SIZED SPINY NEURONS AND NEURAL PROGENITORS IN A MOUSE MODEL OF GLUTAMATE EXCITOTOXICITY
Espinosa-Jeffrey, Araceli
UCLA/USA

W04-02 THE ROLE OF MICROGLIA-IMMUNE INTERACTION IN NEURODEGENERATION OF ALS MOUSE MODEL
Yamanaka, Koji
RIKEN Brain Science Institute, Nagoya University/JAPAN

W04-03 TERMINATION OF REMYELINATION IS REGULATED BY MICROGLIA IN DEMYELINATING MOUSE MODELS
Ikenaka, Kazuhiro
National Institute for Physiological Sciences/JAPAN

W04-04 MICROGLIAL ACTIVATION RAPIDLY MODULATES SYNAPTIC ACTIVITY
Bessis, Alain
Institut de Biologie, Ecole Normale Supérieure/FRANCE

W04-05 HEREDITARY MUTATIONS RESULTING IN EARLY CHILDHOOD WHITE MATTER DISORDERS
Kumar, Shalini
Institut de Biologie, University of California Los Angeles/USA

Gran 5

Workshop W05
AN EDITORS' GUIDE TO JOURNAL PUBLISHING
Chair: Shamus O'Reilly

This workshop will present a rare opportunity to gain insight into journal publishing from Professors Philip Beart, Michael Robinson, Jörg Schulz and Monica Carson

W05-01 AN EDITORS' GUIDE TO JOURNAL PUBLISHING
O'Reilly, Shamus
Elsevier/UK

Cozumel A

Workshop W06
BASE EXCISION DNA REPAIR, BRAIN AGING & NEURODEGENERATIVE DISEASES
Chair: George M. Martin

W06-01 INTRODUCTION: GENOMIC INSTABILITY AS A FUNDAMENTAL MECHANISM OF BIOLOGICAL AGING
Martin, George
University of Washington SOM/USA

W06-02 MITOCHONDRIAL GENOME INTEGRITY AND NEURODEGENERATION
Bohr, Vilhelm
National Institute on Aging, NIH/USA

W06-03 BASE EXCISION REPAIR IN THE ISOLATED MAMMALIAN NEURONAL CELLS OF AGING RATS
Rao, Kalluri
University of Hyderabad/INDIA

W06-04 DEFICIENCY IN REPAIR OF OXIDIZED BASES AND STRAND BREAKS IN NEURODEGENERATIVE BRAIN GENOME: INVOLVEMENT OF RNA BINDING PROTEINS
Mitra, Sankar
Institut de Biologie, University of Texas Medical Branch/USA

W06-05 THE ROLE OF FOLATE DEFICIENCY IN THE ALTERED HOMEOSTASIS OF BASE EXCISION REPAIR AND ITS SIGNIFICANCE FOR AGE-RELATED CANCERS
Heydari, Ahmad
Institut de Biologie, Wayne State University/USA

Cozumel B

YIC02
YOUNG INVESTIGATOR COLLOQUIA 2

YIC02-01 MULTIFUNCTIONAL ROLES OF THE CO-CHAPERONE AND PRION PROTEIN LIGAND STI1 IN EARLY EMBROYONIC DEVELOPMENT AND CELLULAR STRESS
F. H. Beraldo
University of Western Ontario/CANADA

YIC02-02 ASTROCYTIC GLYCOGEN IS IMPORTANT FOR MAINTENANCE OF NEUROTRANSMISSION
A. B. Walls
University of Copenhagen/DENMARK

YIC02-03 ID4 FUNCTION ANTAGONIZES OLIG1 AND OLIG2 TO SUPPRESS AGRESSIVE GLIOMAGENESIS
E. Huillard
University of California, San Francisco/USA

19:15 – 20:30	ASN Business Meeting - All ASN Members Invited Marian Kies Award Winner Announced Jordi Folch-Pi Award Winner Announced ASN NEUR*O* Winner Announced	Cozumel B
20:30 – 22:30	Journal of Neuroscience Research Editors Meeting	La Basilic Restaurant Fiesta Americana

Poster Session I

No Photography Allowed of Posters

Authors Present 13:30 — 14:30

PSM01 Glia

PSM01-01 I.A. Aravantinou-Fatorou
Two synergistic neurogenic factors, Cend1 and Neurogenin-2, drive astrocytic reprogramming towards multipotency and neurogenesis

PSM01-02 F. Birey
Post-ablation NG2+ glia exhibit shorter cell cycle length and enhanced lineage plasticity

PSM01-03 V.T. Cheli
The role of voltage-operated calcium channels in astrocytes reactivity

PSM01-04 N.F. Cruz
Regional registration of [6-14C] glucose metabolism during brain activation of α-syntrophin knockout mice

PSM01-05 C. Cudalbu
The C57BL/6 mouse exhibits sporadic congenital portosystemic shunts

PSM01-06 M. Flores-Méndez
Glutamate-dependent translational control by phosphorylation of ribosomal protein S6 in Bergmann glia cells

PSM01-07 O. Gonzalez-Perez
Distribution of tyrosine-kinase receptors in the adult human subventricular zonetitle

PSM01-08 A.M. Gulillem
Characterization of TrkB expression and function in cultured Bergmann glial cells

PSM01-09 M.G. Hadera
Impairment of glial-neuronal interaction in GLT-1 knockout mice: an NMR spectroscopy study

PSM01-10 M. Hanani
Nitric oxide as an intercellular messenger in sensory ganglia: Implications for chronic pain

PSM01-11 Y. He
Interleukin 1β Treatment Decreases Astrocyte Susceptibility To Oxidant-induced Injury

PSM01-12 J.A. Hubbard
Regulation of Glial Transporters in an Epilepsy Model

PSM01-13 M. Igarashi
Regulation of CSGalNAcT1, an Enzyme Required for Chondroitin Sulfate Synthesis, is Critical to Recovery from Spinal Cord Injury

PSM01-14 S.S. Jhala
EEG monitoring reveals early development of seizure activity prior to opisthotonus in several brain regions in thiamine deficiency

PSM01-15 J. Jiang
Sutherlandia extract Attenuates Lipopolysaccharide and Interferon-gamma Induced Microglial Activation

PSM01-16 T. Kielian
Evidence for Aberrant Glial Activation in Juvenile Neuronal Ceroid Lipofuscinosis (JNCL)

PSM01-17 S. Harray
Melanin-concentrating hormone regulates several properties of astrocyte

PSM01-19 F.M. Marottoli
A role for sulfatides in the promotion of astrogliosis

PSM01-20 F. Martinez
Spectral-confocal and microdissection analysis to define the glial cells distribution and glucose/lactate transporters expression

PSM01-21 M.C. McKenna
Near-Term and Term Neonatal Hypoxic-Ischemic Brain Injury: Alterations in Brain Metabolite Profile and Neuroprotection

PSM01-22
P. Montes de Oca Balderas
Rat cultured astrocytes express functional NMDAR that regulate mitochondrial membrane potential

PSM01-23 T.S. Morken
Glucose and acetate metabolism and glutamate-glutamine cycle in postnatal brain development

PSM01-24 H. Muyderman
Astrocytes in TDP-43 pathology

PSM01-25 M. Nakatsuka
p38 mitogen-activated protein kinase and TRPV4 play roles in microglia activation in the trigeminal subnucleus caudalis

PSM01-26 R. Nakazato
Upregulation by ATP of Runx2 expression in microglial cells

PSM01-27 L. Nogaroli
Lysophosphatidic acid Effects on Early Postnatal Subventricular Zone Progenitors

PSM01-28 F.J. Nualart
Comparative analysis of GLUT1 and SVCT2 polarization in choroid plexus cells

PSM01-29 Y. Otani
TREM2 deficiency increases microglial neurotoxicity while promoting M2 (alternative) microglial activation states

PSM01-30 C. Proschel
Astrocyte-based therapy for CNS injury: multimodal benefit through secretion of regeneration promoting factors

PSM01-31 J.M. Prtillo-Pantoja
Role of Presenilin enhancer 2 (Pen2) in the crosstalk PKA-Notch during astrocytic differentiation in C6 Cells

PSM01-32 A.J. Ramos
S100B is a damage associated molecular pattern protein (DAMP) that promotes reactive gliosis in a RAGE dependent manners

PSM01-33 D.I. Ramírez
Fluoride-triggered protein synthesis decrease in cerebellar Bergmann glia cells

PSM01-34 M.G. Ramírez Sotelo
Effect of extracts of Ibervillea sonorae in the glucose transport in glial cells

PSM01-35 R. Ruiz-Cordero
Activation of Nuclear Factor-κB Mediates Astrocyte Swelling and Brain Edema in Traumatic Brain Injury

PSM01-36 Y. Ruvalcaba-Delgadillo
Chronic exposure to environmental noise produces changes in the number of astrocytes in hippocampus and improvement in learning sp

PSM01-37 F.R. Sahinkaya
Mechanisms of Oligodendrocyte Renewal in Intraspinal Hemorrhage

PSM01-38 C.S. Schitine
Regulation of the GAT-3 GABAergic transporter in avian Muller glia cells

PSM01-39 M. Sitges
Antiepileptic drugs diminish the expression of IL-1b and TNF-a mRNA induced by seizures in the rat hippocampus

PSM01-40 R.F. Stout
Changes to the Carboxyl Terminus of Connexin43 Alter the Gap Junction Nexus Structure and Intercellular Communication

PSM01-41 C.S. Sullivan
The role of the adapter protein GULP in Jedi mediated engulfment of neuronal corpses

PSM01-42 J.I. Szu
Continuous real-time monitoring of water homeostasis and blood flow in the nervous system with optical coherence tomography

PSM01-43 M. Takarada-Iemata
The role of Ndrg2 on astroglial activation in stab wound injury model

PSM01-44 S.K. Tiwari-Woodruff
Estrogen receptor (ER)β expression in oligodendrocytes is required for attenuation of clinical disease by ERβ ligand

PSM01-45 C. Ugbode
SHH causes Astrocyte Elongation and Proliferation along with Decreases in Protein Levels of GLT-1 and GFAP

PSM01-46 J. Van Liefferinge
Contribution of system xc- to generalized seizure generation in the pentylenetetrazole model

PSM01-47 A.L. Vivinetto
Revealing protective effects derived from Oligodendrocyte-Neuron interaction via Myelin-Associated Glycoprotein (MAG)

PSM01-48 A.Y. Wong
Astrocytes Have DREAM in Nucleus to Regulate Prodynorphin and Dynorphin Expression

PSM01-49 D.R. Zollinger
Loss of Pals1 in Schwann cells leads to radial sorting defects

Poster Session I

No Photography Allowed of Posters

Authors Present 13:30 — 14:30

PSM02
Gene Regulation and Genetics

PSM02-01 A. Barco
Regulation of basal and activity-driven hippocampal gene expression and histone acetylation by HDAC inhibitors

PSM02-02 I.R. Brown
Association of Hsp70 heat shock (stress) proteins with nuclear components of cultured human neuronal cells

PSM02-03 P.M. Cassanelli
A working memory task induces repressive epigenetic changes in dorsomedial striatum of mice

PSM02-04 L.D. Chi-Castañeda
The Nuclear Factor kappa B binds to DNA in the olfactory bulb of rabbit pups synchronized by food

PSM02-05 W.T. Choi
Metabolomics of Mammalian Brain Reveals Regional Network Differences

PSM02-06 S. Díaz de León-Guerrero
KLF10 regulates Trh expression in the developing hypothalamus

PSM02-07 C.J. Frias-González
Identification and expression of neuroreceptor genes in the nervous system of red claw crafish Cherax quadricarinatus

PSM02-09 H. Hamdan
Human myelin proteolipid protein intron 1 DNA contains an enhancer that is essential for PLP1-lacZ expression in transgenic mice

PSM02-10 C.M. Ignacio
microRNA-based biomarkers of alcoholism converge on cell proliferation and death pathways

PSM02-11 K. Mizuno
Long-lasting regulation of hippocampal brain-derived neurotrophic factor gene transcription after contextual fear conditioning

PSM02-12 S. Mukda
amphetamine administration disrupts circadian expression of dopaminergic system in the rat brain

PSM02-13 A. Nagalski
Molecular diversity of the adult thalamic complex is coordinated by TCF7L2 transcription factor

PSM02-14 M.J. Rios-Lugo
Prevention efficacy of exogenous melatonin for deleterious neuropeptide regulation in obese male rats

PSM02-15 D. Verma
A genetic association study on monoamine oxidase A (MAOA) gene polymorphisms with autism spectrum disorder (ASD) in Indians

PSM02-16 V.V. Zakharov
Identification of brain abundant protein BASP1 and a specific form of neuronal protein GAP-43 in mouse oocytes and early embryos

PSM03
Neuroinflammation

PSM03-01 J.A. Benjamins
The Ubiquitin-Like Modifier FAT10 Is Upregulated in CNS Glia by Proinflammatory Cytokines

PSM03-02 V. Brazda
Dynamic response of the peripheral nervous system to local injury detected by mRNA changes of IL-6 and its receptors-IL-6R, gp130

PSM03-03 F.S. Calderon
Docosahexaenoic acid (DHA) but not neuroprotectin 1 (NPD1) modulates microglia activation

PSM03-04 I.L. Campbell
Trans-signaling is a key mode of interleukin-6 communication and actions in the central nervous system

PSM03-05 M.A. Collins
Evidence for aquaporin-4 and phospholipase A2 neuroinflammatory/oxidative stress pathways in ethanol-induced neurodegeneration

PSM03-06 K. Curzytek
Imipramine impact onneuroinflamation in rat hippocampus in chronic mild stress model of depression

PSM03-07 W.J. Friedman
IL-1ß enhances neuronal vulnerability to proNGF-mediated apoptosis by increasing surface expression of p75 and sortilin

PSM03-08 C. Garg
18β-glycyrrhetinic acid and carbenoxolone are potent inhibitors of LPS-induced microglia activation

PSM03-09 S. Ghosh
RNS60, a novel anti-inflammatory therapeutic, protects neurons and memory in a transgenic mouse model of Alzheimer's disease

PSM03-10 G.J. Harry
Dissecting the differential profiles of resident microglia with hippocampus damage

PSM03-11 K.E. Hawkins
Activation of the lipoxin A4 receptor reduces infarct size and neuroinflammation in a rat model of ischemic stroke

PSM03-12 N. Kazlauskas
Study of peripheral and central inflammatory responses in a mouse model of autism

PSM03-13 G.W. Konat
The role of astrocytic microRNA in TLR3-induced expression of IFNβ

PSM03-14 S.J. Lee
TLR2-induced MMP9 activation in glia compromise BBB and enhances brain damage in collagenase-induced intracerebral hemorrhage

PSM03-15 J. Li
Galectin-9 is upregulated in astrocytes by proinflammatory cytokines and suppresses encephalitogenic T-cells in the CNS

PSM03-16 H. Lian
Astroglial NFκB Activation Promotes Neuroinflammation and Compromises Neuronal Health Through Complement Signaling Pathway

PSM03-17 M.A. McMillin
CCL3 is upregulated in frontal cortex during hepatic encephalopathy and can be inhibited by suppression of circulating TGFβ1

PSM03-18 D. Patel
Cross-talk between inflammation and oxidative stress in an infection-induced model of epilepsy

PSM03-19 P. Pifarré
Amelioration of EAE by sildenafil involves down-regulation of the adaptive immune response and CNS increases in BDNF

PSM03-21 P. Przanowski
Identification of STATs-dependent genetic network in inflammatory microglia

PSM03-22 K. Sato
L-glutamate released from activated microglia downregulates astrocytic L-glutamate transporter expression in neuroinflammation

PSM03-23 P.F. Schuck
Brain damage in hyperphenylalaninemia: a possible role for neuroinflammation

PSM03-24 D.R. Seeger
LPS-induces increased brain arachidonic acid uptake and incorporation in α-synuclein gene-ablated mice

PSM03-25 K. Shrivastava
A subpopulation of interneurons and cajal-retzius cells express CD200 during development and following hypoxia/ischemia in C57BL/6

PSM03-26 A. Simonyi
Inhibitory effects of an acai (Euterpe oleracea Mart.) extract on inflammatory responses

PSM03-27 P. Urrutia
Inflammatory stimuli and iron accumulation in neurons: two processes linked by hepcidin

Poster Session I

No Photography Allowed of Posters

Authors Present 13:30 — 14:30

PSM04
Molecular Mechanism of Parkinson's Disease

PSM04-01 N.L. Banik
Possible Calpain-mediated Spinal Cord Degeneration in Parkinson's Disease

PSM04-02 E. Bentea
Modeling Parkinson's disease by inhibiting the proteasome system in the mouse substantia nigra

PSM04-03 F. Damasceno
Nitric Oxide modulates the hyperalgesia induced by mechanical noxious stimulus in paradoxical sleep deprived rats

PSM04-04 S.S. Longmuir
Abnormal secretion of α-synuclein in Parkinson's Disease

PSM04-05 A. Zaidi
Loss of Olfactory Function in Parkinson's Disease: Is Calcium the Culprit?

PSM04-06 L. Zhang
Mitochondrial degeneration in PINK1 loss-of-function is rescued by TRAP1

PSM04-07 H. Zhou
Proteomic analysis of anti-oxidant signaling of elderberry and Sutherlandia in diet against mouse focal cerebral ischemia

PSM05
Neurological Dysfunction

PSM05-01 S.K. Agrawal
Resveratrol protects oxidative stress after ischemic injury by activating Nrf-2

PSM05-02 N.R. Bhat
A non-genetic type-2 diabetes paradigm induces accelerated amyloid deposition in PDAPP Tg mice

PSM05-03 K.C. Calaza
In Vivo Exposure To A1 And A2A Receptor Antagonists Or Caffeine Modulates GABA System In Embryonic Chick Retina

PSM05-04 L. Cantuti-Castelvetri
AKT-mediated muscle atrophy in Krabbe disease

PSM05-05 I. Kondratiuk
The adult neurogenesis is not obligatory for epileptogenesis in status epilepticus induced epilepsy in mice

PSM05-06 K. Nagata
Essential role of SIL1, a causative gene of Marinesco-Sjogren syndrome, in the architecture of cerebral cortex during development

PSM05-07 A.J. Scopelliti
Molecular determinants for differences between neutral and acidic amino acid transporters of the Solute Carrier Family 1A

PSM05-08 Y. Song
Molecular Mechanisms for Axon Misguidance in a Mouse Model with Human TUBB3E410K Mutation in CFEOM3

PSM05-09 K. Szabadfi
Ameliorative potential of pituitary adenylate cyclase activating polypeptide in streptozotocin-induced diabetic retinopathy in rat

PSM05-10 V.K. Tripathi
Xenobiotic metabolizing capabilities of cultured brain neuronal and glial cells; linearity analysis between rat and human

PSM05-11 R.K. Yu
Expression of a cholinergic ganglioside GT1aα in the brain of an AD transgenic mouse model deficient in GD3-synthase

PSM05-12 J. Zheng
PA28 inactivation is a significant contributor to the reduced proteasome activity in multiple sclerosis

PSM06
Cholinergic Transmission

PSM06-01 C.J. Baier
prenatal restrain stress affects the expression of neuronal nicotinic acetylcholine receptors in the brain of adult rat offspring

PSM06-02 N. Gravett
Nuclear organization and morphology of cholinergic, catecholaminergic and serotonergic neurons in the brain of the rock hyrax

PSM06-03 M.S. Guzman
Unraveling the role of striatal acetylcholine in metabolic homeostasis

PSM06-04 A. Randakova
Mechanisms of activation of the M1 muscarinic receptor by atypical and classical agonists

PSM06-05 A. Roy
An intrinsic cholinergic system in cardiomyocytes is involved in amplification of neuronal parasympathetic signaling in the heart

PSM06-06 E. Šantrůčková
Subtype differences in effects of brief exposure to xanomeline on binding and activation of muscarinic acetylcholine

PSM06-07 I. Shelukhina
Expression pattern, axonal transport and functional activity of α7 nicotinic acetylcholine receptors in dorsal root ganglia

PSM06-08 T. Takarada
In vitro promotion by alpha4/beta2 nicotinic acetylcholine receptor subtype of neuronal differentiation

PSM07
Neurological Dysfunction

PSM07-01 V.L. Batalha
Adenosine A2A receptor activation - trigger to aging-like modifications on adenosine modulation in the hippocampus

PSM07-02 F.A. Chaudhry
SN2 (Slc38a5) resembles SN1 (Slc38a3) in electroneutral transport but partly differ in functional roles

PSM07-03 V. Chauhan
Protein kinase C and regressive autism: Relationship with developmental abnormalities

PSM07-04 A.D. Chávez
Understanding the serotonin cell migration: Effects of serotonin depletion

PSM07-05 M. Colino-Oliveira
Dual effects of BDNF on spontaneous GABAergic transmission in adult rat hippocampus

PSM07-06 D. Dobrota
Proton magnetic resonance spectroscopy findings in mild traumatic brain injury

PSM07-07 G.C. Ferreira
Ethylmalonic acid modulates Na+, K+-ATPase activity and mRNA levels in rat cerebral cortex

PSM07-08 S.L. Gordon
X-linked mental retardation-associated variants of synaptophysin display altered function during synaptic vesicle endocytosis

PSM07-09 A. Morales-Villagrán
Glutamate measurement online at high resolution during electrical stimulation: A new method based on the use of enzymatic reactor

PSM07-10 A. Rangel Lopez
Electronic model of a neuron based on analog gates

PSM07-11 K. Sakimura
Quantitative analysis of kainite subunits and delta subunits of glutamate receptor in the mouse brain

PSM07-12 Y.P. Shulman
An ATP binding site regulates synapsin IIa function

PSM07-13 M. Wilhelm
Thalamic Mast Cell Number and their Activational State in Female Rats

PSM08
Signal Transduction

PSM08-01 D. Beckman
Prion protein modulates monoaminergic neurotransmitter systems

PSM08-02 E.N. Benveniste
Targeting Casein Kinase 2 Suppresses Pro-survival Signaling Pathways and Growth of Glioblastoma

PSM08-03 C. Chaires-Rosas
Gln transporter SNAT2 in granule cells: Signalling Mechanisms

PSM08-04 A. dos Santos-Rodrigues
microRNAs: a new paradigm for regulation of the nucleoside transporter, ENT1, in glial cells

Poster Session I

No Photography Allowed of Posters

Authors Present 13:30 — 14:30

PSM08-05 V. Haucke
Fast neurotransmitter release regulated by the endocytic scaffold intersectin

PSM08-06 D.L. Hynds
Rho GTPase Geranylgeranylation and Regulation of Neurite Outgrowth

PSM08-07 S. Karouzaki
Regulated expression of neurofibromin isoforms during neural differentiation and possible functional implications

PSM08-08 H.K. Lee
Daam2 is required for the PtdIns(4,5)P2 production through Rac1 induced PIP5K activation in canonical Wnt signaling

PSM08-09 I.M. Ornelas
Neuroprotective effect of docosahexaneoic acid on brain metabolism and behavior in a model of fetal alcohol syndrome

PSM08-10 S. Díaz de León-Guerrero
KLF10 regulates Trh expression in the developing hypothalamus

PSM08-11 S.M. Parsons
Stimulators and inhibitors of Fe2+- and NAD+-dependent gamma-hydroxybutyrate dehydrogenase from Cupriavidus necator

PSM08-12 N. Ratner
Protein Kinase A, Rac1 and cAMP effects on Schwann cell development in vivo

PSM08-13 J.A. Rostas
Can functional outcomes of CaMKII double phosphorylation be predicted from outcomes following single phosphorylation of CaMKII?

PSM08-14 S. Samaddar
Serotonin 1A Receptor-mediated Signaling Cascade in Neuroblast Proliferation and Neurogenesis in Neonatal Hippocampus

PSM08-15 E. Szoke
Differential actions of Pituitary Adenilate Cyclase Activating Plolypeptide receptors on sensory neurones and cell lines

PSM08-16 A.Y. Taha
Dietary omega-6 fatty acid deprivation reduces lipopolysaccharide-induced increase in brain arachidonic acid metabolism

PSM08-17 A. Vertiz Hernandez
Structural analysis between arsenic and CYP2C8 enzyme interaction by docking

PSM08-18 U. Wyneken
Homeostatic re-arrangements of TrkB-containing synaptic protein complexes following increased neuronal activity

PSM08-19 X. Piao
Adhesion G protein-coupled receptor GPR56 in CNS myelination

PSM09
Neurogenesis and Cell Differentiation

PSM09-01 I. Ajioka
Uncoupled Proliferation and Differentiation of Cortical Excitatory Neurons in the Absence of Rb Family Members

PSM09-02 M.B. da Costa Reis
Role of Connexin 43 in CXCL12 Secretion by Astrocytes

PSM09-03 J.M. Encinas
Exhaustion of Neurogenesis and Contribution of Radial Glia to Hippocampal Sclerosis After Seizures

PSM09-04 R. Fadó
X-linked Inhibitor of Apoptosis Protein negatively regulates neuronal differentiation through interaction with cRAF and Trk

PSM09-05 R.L. Fleming
PACAP receptor resensitization induces plastic changes in the dopaminergic phenotype in the mature avian retina

PSM09-06 I. Galve-Roperh
The CB1 cannabinoid receptor drives corticospinal motor neuron differentiation through Ctip2/Satb2 transcriptional regulation axis

PSM09-07 M.T. Goodus
Neural Stem Cell Proliferation and Cytokine Production in the Subventricular Zone Following Pediatric Traumatic Brain Injury

PSM09-08 T. Hattori
Analysis of Cortical Development in Mice Lacking DBZ

PSM09-09 Y. Hirota
Regulation of migratory behavior of excitatory neurons by the Reelin signaling via its receptors

PSM09-10 W. Jing
Interaction of ganglioside GD3 with EGF receptor maintains the self-renewal ability of mouse neural stem cells

PSM09-11 K. Kawada
ER stress might be involved in the inhibition of neuronal differentiation and maturation via ubiquitin ligase HRD1

PSM09-12 F.K. McClenahan
The adhesion receptor dystroglycan regulates the organization and gliogenic capacity of the SVZ neural stem cell niche

PSM09-13 C.A. McPherson
M1 and M2 related genes are differentially expressed during chemical injury-induced neurogenesis

PSM09-14 E.L. Meirelles
Anxiety behavior and adult hippocampal neurogenesis in the cross breeding (f2 generation) of carioca rats

PSM09-15 L.M. Miyakoshi
Evidence for a cell surface chaperone heterocomplex mediating migration of neuroblasts from the subventricular zone

PSM09-16 N. Nakamichi
Modulation of proliferation and differentiation activity by solute carrier OCTN1/SLC22A4 in neural progenitor cells

PSM09-17 A. Pandey
Development of In Vitro model for studying role of microRNAs in developmental neurotoxicity

PSM09-18 K.C. Pituch
Sulfatides isoforms alter the gliogenic capacity of multipotential neural progenitor cells by modulating cell viability and death

PSM09-19 L. Qi
The effects of topology on neural stem cell proliferation and differentiation

PSM09-20 F.F. Ribeiro
Adenosine A2A Receptor: the mechanism behind axonal elongation in primary cortical cultures

PSM09-21 J. Romo-Yáñez
Dystrophins and DAPs are differentially expressed during neuronal or glial differentiation of neural stem/progenitor cells

PSM09-22 K.A. Salazar
Super-resolution confocal analysis to define the localization and relation of SVCT2 with synaptic proteins in cortical neurons

PSM09-23 Y. Sekino
CALCIUM SIGNALLING OF HUMAN iPS -DERIVED NEURONS RESPONDING TO ATP AND L-GLUTAMATE STIMULATION

PSM09-24 A.K. Singh
Human cord blood stem cells derived neuronal cells: in vitro tool to assess chemical induced developmental neurotoxicity

PSM09-25 S. Soto-Rodríguez
Sleep deprivation effects over long term learning and spatial memory and neurogenesis in adult male mice at different periods

PSM09-26 Y.A. Syed
EphrinB3 negatively regulates oligodendrocyte maturation and CNS remyelination

PSM09-27 S. Theofilopoulos
Identification of novel brain endogenous Liver X Receptor ligands that promote red nucleus or midbrain dopamine neurogenesis

PSM09-28 M. Vidal
Adult spinal cord and DRG sphere-forming cells exhibit distinct but promising features for CNS remyelination

Poster Session I

No Photography Allowed of Posters

Authors Present 13:30 — 14:30

PSM09-29 A. Xavier
Distinct features of Cx3cr1 expressing cells within the postnatal subventricular zone/rostral migratory stream

PSM09-30 S. Yadav
MicroRNAs as macro molecules in regulatory circuit of Neuronal differentiation

PSM09-31 H. Yamazaki
Spikar induces the formation of dendritic spines and filopodia in a drebrin-dependent manner

PSM09-32 Y. Yan
High efficient generation of neural stem cells from human pluripotent stem cells

PSM09-33 P. Ye
IGF-I Actions on Cell Cycle Progression in Cultured Neuronal Precursors

PSM09-34 M. Yoneyama
Possible involvement of nitric oxide in promotion of neurogenesis following neuronal degeneration in the hippocampal dentate gyrus

PSM10
Brain Bioenergetics

PSM10-01 A. Chauhan
Reduced activities of mitochondrial electron transfer chain complexes in the frontal cerebral cortex in autism

PSM10-02 E. Coballase-Urrutia
Tilia americana var. mexicana: a species with high antioxidant potential

PSM10-03 J.C. Corona
Rosiglitazone protects human neuron-like cells against complex I inhibition through improvement of mitochondrial function

PSM10-04 G.A. Cortopassi
Nrf2 deficiency in a Friedreich's ataxia animal model and potential therapies

PSM10-05 C. Cudalbu
Hepatic Encephalopathy and brain metabolism: a longitudinal in vivo study

PSM10-06 D. D'Agostino
Metabolic Therapy for Seizures and Neurodegenerative Diseases

PSM10-07 A.M. de Assis
Propylthiouracil-induced hypothyroidism during lactation alters leucine and mannose metabolism in rat cerebellar slices

PSM10-08 M.M. Essa
Effect of dietary supplementation of figs from Oman on the memory, learning skills and behavior in Alzheimer's disease Tg mice

PSM10-09 G. Goracci
Group IIA secretory phospholipase A2 (GIIA sPLA2) is released by PC12 exposed to neurotoxic trimethyltin (TMT)

PSM10-10 A.S. Hazell
Astrocytic soluble factors disrupt mitochondrial membrane potential and downregulate GLT-1 in thiamine deficiency

PSM10-11 D. Hernández
Glutamine transporter SNAT5 ontogeny in rat cerebral cortex

PSM10-13 D.A. Linseman
Overexpression of APP induces mitochondrial oxidative stress and Bax dependent apoptosis in a mouse hippocampal cell line

PSM10-14 K.P. Mohanakumar
A cross-talk between mitochondrial and nuclear genomes in neurons: Relevance to Parkinson's disease

PSM10-15 O.G. Méndez-Flores
Glucose transport in chick Bergmann Glial cells: Regulation by Glutamate

PSM10-16 R. Orihuela
Mitochondrial bioenergetics profiles in M1/M2 microglial polarization

PSM10-17 A. Pujol
Oxidation of cyclophilin D as a target in neurodegeneration: the adrenoleukodystrophy case

PSM10-18 M. Sitges
Vinpocetine and α-tocopherol prevent 3-NPA-induced increase in DA and oxidative stress in striatum isolated nerve endings

PSM10-19 R.P. Skoff
Insertion of proteolipid protein into mitochondria mediates neuronal survival via ph and ATP

PSM10-20 M.B. Solís
Monocarboxylate are notimportant to support synaptic activity in Huntington's Disease

PSM10-21 H.M. Wilkins
Augmentation of mitochondrial glutathione transport renders a motor neuron cell line resistant to oxidative stress

PSM10-22 S.M. Wolahan
Therapeutic Blood Glucose Control Effects Cerebral Glycolysis Following Traumatic Brain Injury

PSM11
Neuroimmunology

PSM11-01 K. Biber
Neuroprotective function for ramified microglia in hippocampal excitotoxicity

PSM11-02 D. Brites
Age-related differences in microglia reactivity: Relevance to Alzheimer's disease

PSM11-03 Z. Chen
Microglia prevent neuronal apoptotic death through disinhibition of axosomatic innervations

PSM11-04 M. Chertoff
Profile of classical or alternative activation and acquired deactivation markers in postnatal microglia of C57/Bl6 mice brain

PSM11-05 C.N. David
Aquaporin-4 in the immune response to chronic Toxoplasma gondii infection

PSM11-06 P. Gonzalez
The impairment on fear memory consolidation induced by IL-1β involves p38 phosphorylation and reduction of ERK activation

PSM11-07 M.A. Lécuyer
Activated leukocyte cell adhesion molecule regulates blood-brain barrier integrity and neuroinflammation

PSM11-08 I. Machado
Signaling pathways affected by IL 1 beta during reconsolidation of contextual fear memory and the modulatory rol of alpha MSH

PSM11-09 R. Milner
ECM regulation of cerebral pericytes; TNF-alpha promotes pericyte remodeling by a switch from alpha1 to alpha2 integrins

PSM11-10 V.T. Rao
micro-RNAs (miRNAs) profiles of myeloid cells in human CNS using laser-capture microdissection (LCM)

PSM11-11 O. Saint-Laurent
Early blood brain barrier dysfunction and immune activation in a spontaneous model of experimental autoimmune encephalomyelitis

PSM11-12 N.N. Trager
Calpain Inhibition for the Treatment of Multiple Sclerosis

PSM11-13 N. Villacampa-Pérez
Effects of CNS-targeted IL-6 or IL10 production on Microglial Activation and Motor Neuron Degeneration After Facial Nerve Axotomy

PSM12
Cellular Mechanism of Alzheimer's Disease

PSM12-01 S.W. Barger
A Role for P-Glycoprotein in Clearance of Alzheimer Amyloid β-Peptide from the Brain

PSM12-02 D.J. Braun
Damage to the Locus Coeruleus in a model of Alzheimer's disease: Association with reduced target field trophic support

PSM12-03 X. Chen
Endolysosome involvement in HIV-1 Tat-induced neuronal amyloid beta production

PSM12-04 G.E. Gibson
Inhibiting the activity of one mitochondrial enzyme complex modifies succinylation of many proteins

Poster Session I

No Photography Allowed of Posters

Authors Present 13:30 — 14:30

PSM12-05 H. Janickova
Prolonged Aβ1-42 treatment does not influence membrane localization of M1 muscarinic receptors expressed in CHO cells

PSM12-06 S. Lenz
Impaired retrograde axonal transport contributes to degenerative alterations in a Tau[R406W]-AD model in Drosophila

PSM12-07 N.N. Nalivaeva
Valproic acid prevents changes in gene expression caused by oxidative stress

PSM12-08 W. Song
Alteration of BACE1 cleavage contributes to Alzheimer pathogenesis

PSM12-09 H. Tu
The loss of glutamate transporter in astrocytes following beta amyloid exposure is dependent on calpain

PSM12-10 S. L. Vega
Influence of Activation of Mitochondrial ATP Sensitive Potassium Channels on Toxic Effect of Amyloid β

Tuesday, April 23, 2013

07:30 – 18:00	ISN-ASN Registration Desk	Level 1
07:30 – 11:00	Speaker Ready Room	Isla Mujeres 2
08:00 – 09:00	Continental Breakfast	Costa Maya - Level 1
07:30 – 19:00	Internet/Recharging Station - Sponsored By Wiley	Costa Maya - Level 1
08:00 – 18:00	Poster Session II Set Up Posters Between 07:30 - 08:00, Authors Present 13:30 - 14:30	Level 1
08:30 – 09:30	Welcome & Introductions Leszek Kaczmarek, Chair, ISN Program Committee PL4 Plenary Lecture Martin Cammarota, PhD **On Memory Formation and Expression**	Gran A - Level 3
09:30 – 10:00	ASN Marian Kies Lecture YL03 Sandeep Singh, PhD **How do Astrocyte Secreted Proteins Hevin and SPARC Control CNS Synaptogenesis?**	Gran A - Level 3
10:00 – 10:30	Refreshment Break	Costa Maya - Level 1
10:30 – 12:30	Scientific Sessions	

Gran 1

Symposia S17
NOVEL MECHANISMS OF MEMORY
Co-Chairs: Kari Peter Giese & Kasia Radwanska

S17-01 THE ROLE OF ARC IN INVERSE TAGGING OF INACTIVE SYNAPSES
Okuno, Hiroyuki
University of Tokyo Graduate School of Medicine/JAPAN

S17-02 EPIGENETIC MECHANISMS OF LONG-TERM MEMORY STORAGE
Abel, Ted
University of Pennsylvania/USA

S17-03 A NOVEL MEMORY MECHANISM THAT IS IMPAIRED IN THE EARLY STAGES OF ALZHEIMER'S DISEASE
Giese, Peter
King's College London/UK

S17-04 A MECHANISM FOR LONG-TERM MEMORY FORMATION WHEN SYNAPTIC STRENGTHENING IS IMPAIRED
Radwanska, Kasia
Nencki Institute/POLAND

Gran 5

Symposia S18
METABOTROPIC GLUTAMATE RECEPTORS AS PROMISING PHARMACOLOGICAL TARGETS FOR TREATING DIVERSE HUMAN NERVOUS SYSTEM DISORDERS
Co-Chairs: Joseph Neale & Jean-Philippe Pin

S18-01 THE CHALLENGE OF ORTHOSTERIC AGONISTS OF METABOTROPIC GLUTAMATE RECEPTORS
Acher, Francine
University Paris Descartes/FRANCE

S18-02 METABOTROPIC GLUTAMATE RECEPTORS AS PROMISING PHARMACOLOGICAL TARGETS FOR TREATING DIVERSE HUMAN NERVOUS SYSTEMS DISORDERS
Rook, Jerri
Vanderbilt Univerity Medical Center/USA

S18-03 THE METABOTROPIC GLUTAMATE RECEPTORS: COMPLEX MACHINES FOR NEW DRUGS
Pin, Jean-Philippe
CNRS - INSERM - Université de Montpellier/FRANCE

S18-04 NAAG PEPTIDASE INHIBITORS: A NEW PATHWAY TREATING PAIN, SCHIZOPHRENIA, TRAUMATIC BRAIN INJURY AND MEMORY DEFICITS VIA MGLUR3
Neale, Joseph
University Georgetown/USA

Cozumel A

Symposia S19
GLIAL AND NEURONAL CONTROL OF BRAIN ENERGY METABOLISM
Chair: Martin Lauritzen

S19-01 HIGH RESOLUTION IN VIVO RECORDINGS OF BRAIN OXYGEN METABOLISM
Boas, David
Harvard University Medical School/USA

S19-02 LOCAL CONTROL OF BRAIN OXYGEN CONSUMPTION IN RELATION TO ACTIVITY IN NEURONS AND ASTROCYTES, AND CHANGES WITH AGE
Lauritzen, Martin
University of Copenhagen/DENMARK

S19-03 DO BRAIN CELLS NORMALLY USE MAINLY GLUCOSE OR A BLENDED GLUCOSE-LACTATE FUEL MIXTURE?
Dienel, Gerald
University of Arkansas for Medical Sciences/USA

S19-04 THE DYNAMICS OF GLUCOSE AND LACTATE METABOLISM IN THE INJURED BRAIN DURING SPREADING DEPOLARISATION
Boutelle, Martyn
Imperial College London/UK

Cozumel B

Symposia S20
REGULATORS OF NEURONAL MICROTUBULES IN DEVELOPMENT AND DISEASE
Chair: Peter Baas

S20-01 POLARITY OF MIGRATING NEURONS IS RELATED TO A MECHANISM ANALOGOUS TO CYTOKINESIS
Baas, Peter
Drexel University College of Medicine/USA

S20-02 EML, CRITICAL FOR NORMAL CORTICAL DEVELOPMENT IN MOUSE AND HUMAN
Francis, Fiona
Institut du Fer à Moulin/FRANCE

S20-03 SHOOTIN1 ACTS IN CONCERT WITH KIF20B TO PROMOTE POLARIZATION OF MIGRATING NEURONS
Reiner, Orly
Weizmann Institute of Science/ISREAL

S20-04 DOUBLECORTIN FAMILY PROTEINS REGULATE AXON GUIDANCE
Liu, Judy
Children's National Medical Center/USA

Tuesday, April 23, 2013

12:00 – 14:30	ASN Council Meeting II	Coral Sea Room, Fiesta Americana
12:30 – 14:30	Lunch Provided / Lunch Ticket #3 - Visit Exhibitors	Costa Maya - Level 1
12:30 – 13:30	Women in Neurochemistry Lunch Sponored by ASN & ISN Advance Reservation Required - Sign Up At ISN-ASN Registration Desk	Gran A - Level 3
12:30 – 13:30	Lunch with Plenary Speaker - Dr. Cammarota Sponored by NINDS & ISN Advance Reservation Required - Sign Up At ISN-ASN Registration Desk	Isla Mujeres 2
13:30 – 14:30	Poster Session II - Authors Present	Level 1
14:30 – 16:30	Scientific Sessions	

Gran 1

Symposia S21
NEURONAL PLASTICITY UNDER LEARNING CHALLENGE
Chair: Martine Ammassari Teule

S21-01 CREB SELECTIVELY CONTROLS LEARNING-INDUCED STRUCTURAL REMODELLING OF NEURONS
Marie, Helene
Institut de Pharmacologie Moleculaire et Cellulaire/FRANCE

S21-02 COMPLEX LEARNING INDUCES WIDE-SPREAD MODULATION OF EXCITATORY AND INHIBITORY SYNAPTIC TRANSMISSION
Barkai, Edi
University of Haifa/ISREAL

S21-03 ABNORMAL LEARNING-INDUCED STRUCTURAL AND SYNAPTIC PLASTICITY IN MICE MODELLING ALZHEIMER DISEASE
Middei, Silvia
CNR/ITALY

S21-04 PRESYNAPTIC STRUCTURAL AND MOLECULAR PLASTICITY REGULATION OF LONG-TERM MEMORY
Routtenberg, Aryeh
Northwestern University/USA

Gran 5

Symposia S22
FROM OPTOGENETICS TO MicroRNA REVELATIONS IN CHOLINERGIC SIGNALING
Co-Chairs: José Diaz Bargas & Hermona Soreq

S22-01 MODELLING NEUROCHEMICAL CHANGES IN DEMENTIA BY GENETIC TARGETING THE VESICULAR ACETYLCHOLINE TRANSPORTER
Prado, Vania
Robarts Research Institute/CANADA

S22-02 TIMING-DEPENDENT SEPTAL CHOLINERGIC INDUCTION OF DYNAMIC HIPPOCAMPAL SYNAPTIC PLASTICITY
Yakel, Jerrel
NIEHS/NIH/USA

S22-03 PRE-NEURONAL ACETYLCHOLINE: CHOLINERGIC EPITHELIAL CHEMOSENSORY CELLS MONITOR MUCOSAL SURFACES AND TRIGGER REFLEXES
Kummer, Wolfgang
Justus-Liebig-University/GERMANY

S22-04 MICRORNA-MEDIATED REGULATION OF THE CHOLINERGIC CONTROL OF NEUROINFLAMMATION
Soreq, Hermona
The Hebrew University of Jerusalem/ISREAL

Cozumel A

Symposia S23
PRESYNAPTIC ACTIVE ZONE ASSEMBLY AND FUNCTION
Chair: Nils Brose

S23-01 SHEDDING LIGHT ON THE ASSEMBLY OF SYNAPSE STRUCTURE AND FUNCTION
Sigrist, Stephan
Freie Universität Berlin/GERMANY

S23-02 TUNING THE KINETICS OF SYNAPTIC RESPONSES: MECHANISMS REGULATING RELEASE KINETICS IN C. ELEGANS
Kaplan, Joshua
Harvard University/USA

S23-03 EXO-ENDOCYTOTIC COUPLING AT THE CALYX OF HELD SYNAPSE
Sakaba, Takeshi
Doshisha University/JAPAN

S23-04 DYNAMIC CONTROL OF PRESYNAPTIC FUNCTION - THE OTHER TYPE OF SYNAPTIC PLASTICITY
Brose, Nils
Max Planck Institute of Experimental Medicine/GERMANY

Cozumel B

Symposia S24
CELLULAR & MOLECULAR MECHANISMS CONTRIBUTING POLARITY & FUNCTION OF NEURONAL CELLS
Co-Chairs: C. Gonzalez-Billault & K. Kaibuchi

S24-01 MICROTUBULE-ASSOCIATED PROTEIN 1B IN AXON ELONGATION AND NEUROTRANSMISSION
Gonzalez-Billault, Christian
Universidad de Chile/CHILE

S24-02 CONTROLLING NEURONAL TRANSPORT – MOTOR-ADAPTOR PROTEINS STEER MITOCHONDRIAL TRAFFICKING TO AXONS AND DENDRITES
Hoogenraad, Casper
Utrecht University/NETHERLANDS

S24-03 CELL-INTRINSIC REGULATION OF NEURONAL CONNECTIVITY IN THE MAMMALIAN BRAIN
Ikeuchi, Yoshiho
Harvard University Medical School/USA

S24-04 NEURONAL POLARITY IN VITRO AND IN VIVO
Kaibuchi, Kozo
Nagoya University/JAPAN

16:30 – 17:00	Refreshment Break	Costa Maya - Level 1

Tuesday, April 23, 2013

17:00 – 19:00 Scientific Sessions

Gran 1

Workshop W07
GLIA-NEURON SIGNALING: FROM GLIOTRANSMISSION TO NEUROCHEMISTRY
Chair: Jean-Pierre Mothet

W07-01 GLIAL D-SERINE DRIVES THE DOPAMINE-GLUTAMATE DIALOGUE IN THE PREFRONTAL CORTEX
Mothet, Jean-Pierre
CNRS - Aix Marseille University/FRANCE

W07-02 CA2+ SOURCES FOR THE EXOCYTOTIC GLUTAMATE RELEASE FROM ASTROCYTES
Parpura, Vladimir
University of Alabama/USA

W07-03 THE FABRICS OF ASTROCYTE VESICLE TRAFFIC IN HEALTH AND DISEASE
Zorec, Robert
Univerza v Ljubljani/SLOVENIA

W07-04 SYNAPTIC MODULATION MEDIATED BY ASTROCYTE SIGNALING
Navarrete, Marta
Instituto Cajal, CSIC/SPAIN

Gran 5

Workshop W08
ENERGY METABOLISM, SYNAPTIC FUNCTION AND NEURONAL EXCITABILITY
Chair: Bregastovski Piotr

W08-01 ENERGY METABOLISM, SYNAPTIC FUNCTION AND NEURONAL EXCITABILITY
Bregestovski, Piotr
Brain Dynamics Institute/FRANCE

W08-02 NEURONAL ENERGY SUPPLY: REGULATION AND ROLES OF MONOCARBOXYLATE TRANSPORTERS
Pellerin, Luc
University of Lausanne/SWITZERLAND

W08-03 ENERGY USE AND SUPPLY IN CNS GREY AND WHITE MATTER
Attwell, David
UCL/UK

W08-04 BIOENERGETICS OF FAST NEURONAL NETWORK OSCILLATIONS
Kann, Oliver
University of Heidelberg/GERMANY

W08-05 ENERGY SUBSTRATE TEAMWORK AND NDD: THE MAJOR PLAYERS
Zilberter, Yuri
Institut de Neurosciences des Systèmes/FRANCE

Cozumel A

YIC03
YOUNG INVESTIGATOR COLLOQUIA 3

YIC03-01 ROLE OF THE NEUROFASCINS IN AXONAL DOMAIN MAINTENANCE
A. Desmazieres
Centre for Neuroregeneration, University of Edinburgh/UK

YIC03-02 ENDOSOME-LYSOSOME DYSREGULATION IN AMYOTROPHIC LATERAL SCIEROSIS
R.K. Sheean
Florey Institute of Neuroscience & Mental Health/AUSTRALIA

YIC03-03 PLASTICITY AND BEHAVIOR IN ANIMAL MODELS OF TDP-43 PROTEINOPATHIES
L.M. Igaz
University of Buenos Aires/ARGENTINA

YIC03-04 THE ROLE OF DOPAMINE SIGNALLING IN THE GABAergic NEURON DEVELOPMENT AND MOTOR BEHAVIOR IN ZEBRAFISH LARVAE
B.R. Souza
Universidade Federal de Minas Gerais/BRAZIL

Cozumel B

YIC04
YOUNG INVESTIGATOR COLLOQUIA 4

YIC04-01 CROSSLINKING-INDUCED ENDOCYTOSIS OF ACETYICHOLINE TECEPTORS BY QUANTUM DOTS
C.W. LEE
Division of Life Science, State Key Laboratory of Molecular Neuroscience/CHINA

YIC04-02 BDNF INTERACTS WITH ADULT-BORN IMMATURE CELLS IN THE DENTATE GYRUS DURING CONSOLIDATION OF PATTERN SEPARATED MEMORIES
P. Bekinschtein
Instituto de Biologia Celular y Neurociencia, Universidad de buenos Aires/ARGENTINA

YIC04-03 THE LONG-TERM CONSEQUENCES OF INHALANT ABUSE DURING ADOLESCENCE; POTENTIAL NEURO-ADAPTATIONS IN REWARD PATHWAYS?
J.R. Duncan
Florey Institute of Neuroscience and Mental Health, University of Melbourne/AUSTRALIA

YIC04-04 THE ROLE OF mGlu5 RECEPTOR IN EXTINCTION OF DRUG-SEEKING BEHAVIOR
J.H. Kim
University of Melbourne/AUSTRALIA

19:00 – 19:30	ISN Schools Alumni Social	Isla Mujeres 2
19:30 – 21:30	ISN Business Meeting All ISN Members Invited	Cozumel B

ASN Science as Art Photo Contest

Featuring extraordinary images of neurochemistry specimens and nature from registered attendees of this meeting.

Be sure to cast your vote for the Members Choice Award by 9:00 Tuesday April 23

Winners announced 12.30 Tuesday
Ballot box located at the ISN-ASN Registration Desk

Wednesday, April 24, 2013

07:30 – 15:00	ISN-ASN Registration Desk	Level 1
07:30 – 11:00	Speaker Ready Room	Isla Mujeres 2
08:00 – 09:00	Continental Breakfast	Costa Maya - Level 1
07:30 – 17:00	Internet/Recharging Station - Sponsored By Wiley	Costa Maya - Level 1
08:00 – 17:00	Poster Session II, Authors Present 12:30 - 13:30	Level 1
08:30 – 09:30	Welcome & Introductions Steve Levison, ASN President PL5 Plenary Lecture Nancy Yuk-Yu Ip, PhD **Understanding the Molecular Basis of Neural Plasticity**	Gran A - Level 3
09:30 – 10:00	Refreshment Break	Costa Maya - Level 1
10:00 – 12:00	Scientific Sessions	

Gran 1

Symposia S25
THE ROLE OF PUFAs IN INJURED AND UNHEALTHY BRAINS
Chair: Jeffrey T. Cole

S25-01 NEUROINFLAMMATION AND DOCOSANOID SIGNALING IN SYNAPTIC CIRCUITRY: NEW MEDIATORS FOR NEUROPROTECTION AND LONG-TERM RESCUE
Bazan, Nicolas
Louisiana State University HSC/USA

S25-02 INTRINSIC LIPID CIRCUITS: KEY REGULATORS OF INNATE IMMUNITY AND REPARATIVE RESPONSES
Gronert, Karsten
University of California Berkeley/USA

S25-03 IMPACT OF N-3 PUFA IN PARKINSON'S DISEASE: EVIDENCE FROM ANIMAL MODELS
Cicchetti, Francesca
Centre de Recherche du CHUQ (CHUL)/ CANADA

S25-04 DIET AS A VULNERABILITY FACTOR FOR THE OUTCOME OF BRAIN TRAUMA
Gomez-Pinilla, Fernando
University of California Los Angeles/USA

Gran 5

Symposia S26
METALS IN NEURODEGENERATION: THERAPEUTIC OPPORTUNITIES
Chair: Kevin Barnham

S26-01 TRAFFICKING OF METAL IONS BY PROTEINS IMPLICATED IN ALZHEIMER'S AND PARKINSON'S DISEASES
Bush, Ashley
University of Melbourne/AUSTRALIA

S26-02 ALS AND THE ROLE OF ZINC AND COPPER BOUND TO SUPEROXIDE DISMUTASE
Beckman, Joe
Oregon State University/USA

S26-03 SYNAPTIC ZN2+ ACTS AS A NEUROTRANSMITTER SIGNAL VIA THE ZN2+ SENSING ZNR/GPR39
Hershfinkel, Michal
Ben Gurion University of the Negev/ ISREAL

S26-04 FERRITIN SIRNA AS A TREATMENT STRATEGY IN GLIOBLASTOMA
Connor, James
Penn State University/USA

Cozumel A

Symposia S27
PROTEIN KINASES AND PATHOGENESIS IN NEURODEGENERATIVE DISEASES
Co-Chairs: Scott Brady & George Siegel

S27-01 ACTIVATION OF P38 MAPK BY MISFOLDED ALS-ASSOCIATED PROTEINS
Bosco, Daryl
University of Massachusetts/USA

S27-02 MUTATION OF ATM IS ASSOCIATED WITH ASTROGLIAL DYSFUNCTION
Mayer-Proschel, Margot
University of Rochester/USA

S27-03 THE PARKINSON'S DISEASE PROTEIN LRRK2: AT THE CENTRE OF MULTIPLE CELL BIOLOGICAL FUNCTIONS
Harvey, Kirsten
University College London/UK

S27-04 KINASE ACTIVATION AND MOLECULAR PATHOGENESIS IN ALZHEIMER'S AND HUNTINGTON'S DISEASE
Brady, Scott
University of Illinois at Chicago/USA

Cozumel B

Symposia S28
UNEXPECTED ROLES FOR IMMUNE SIGNALING IN THE HEALTHY AND DISEASED BRAIN
Co-Chairs: Jessy Alexander & Beth Stevens

S28-01 PRUNING CNS SYNAPSES: AN ACTIVE ROLE FOR GLIA AND THE COMPLEMENT CASCADE
Stevens, Beth
Boston Childrens Hospital/USA

S28-02 CONTROL OF SYNAPTIC TRANSMISSION AND SYNAPTIC PLASTICITY BY MHCI IMMUNE PROTEINS
Boulanger, Lisa
Princeton University/USA

S28-03 IMMUNE MOLECULES REGULATE NEURAL CONNECTIVITY IN THE HEALTHY BRAIN AND FOLLOWING MATERNAL INFECTION
McAllister, A. Kimberley
University of California, Davis/USA

S28-04 MOLECULAR CONTROL OF CNS INFLAMMATION AT THE BBB
Prat, Alex
Université de Montréal/CANADA

12:00 – 13:30	Lunch Provided / Lunch Ticket #4 - Visit Exhibitors	Costa Maya - Level 1
12:00 – 13:30	Neurochemistry International Board Meeting	Fiesta Americana
12:00 – 13:00	Lunch with Plenary Speaker - Dr. Yuk-Yu Sponored by NINDS & ISN Advance Reservation Required - Sign Up At ISN-ASN Registration Desk	Isla Mujeres 2
12:30 – 13:30	Poster Session II - Authors Present	Level 1

13:30 – 15:30 Scientific Sessions

Gran 1

Symposia S29
MULTI-MODE ACTIONS OF BOTANICAL POLYPHENOLS AGAINST NEURODEGENERATIVE DISEASES
Co-Chairs: Grace Sun & Zezong Gu

S29-01 NEURORESTORATIVE ACTIVITY OF GREEN TEA, EPIGALLOCATECHIN GALLATE, IN MPTP-INDUCED PARKINSONISM
Youdim, Moussa
Israel Institute of Technology/ISREAL

S29-02 NEW INSIGHTS FOR OXIDATIVE AND INFLAMMATORY RESPONSES IN MICROGLIAL CELLS
Sun, Grace
University of Missouri/USA

S29-03 BOTANICAL ANTI-OXIDANTS ON NITROSATIVE/ OXIDATIVE SIGNALING PATHWAYS: QUANTITATIVE PROTEOMIC ANALYSES
Gu, Zezong
University of Missouri-Columbia/USA

S29-04 ABSTRACT TITLE CURCUMIN STRUCTURE-FUNCTION, BIOAVAILABILITY, AND EFFICACY IN MODELS OF NEUROINFLAMMATION AND ALZHEIMER'S DISEASE
Cole, Gregory
UCLA/VA/USA

Gran 5

Symposia S30
STEM CELLS AND BIOMATERIALS FOR THE TREATMENT OF SPINAL CORD INJURY
Co-Chairs: Eva Sykova & Jeffery Kocsis

S30-01 NEW POSSIBILITIES FOR THE TREATMENT OF ACUTE AND CHRONIC SPINAL CORD INJURY
Sykova, Eva
Institute of Experimental Medicine ASCR/CZECH REPUBLIC

S30-02 CELLULAR TRANSPLANTATION APPROACHES TO REPAIR THE INJURED CNS
Kocsis, Jeffery
Yale University/USA

S30-03 HOST CELLULAR INTERACTIONS ON ε-POLYCAPROLACTONE SCAFFOLDS WITH GROOVED MICRO-TOPOGRAPHY CAN AFFECT BIOLOGICAL PROPERTIES
Barnett, Sue
University of Glasgow/UK

S30-04 COMBINATORIAL STRATEGIES FOR USING STEM CELLS & BIOMATERIALS TO FACILITATE RECOVERY OF AXONAL FUNCTION IN THE INJURED SPINAL CORD
Velumian, Alexander
University Health Network/CANADA

Cozumel A

Symposia S31
SYNAPTIC SCAFFOLD PROTEINS IN NORMAL AND PATHOLOGICAL BEHAVIOR
Chair: James Waschek

S31-01 CAMKIIβ IS A GATING MECHANISM OF ACTIVITY-INDUCED STRUCTURAL MODIFICATION OF HIPPOCAMPAL DENDRITIC SPINES
Hayashi, Yasunori
RIKEN/JAPAN

S31-02 REGULATION OF NMDA RECEPTORS BY MAGUK PROTEINS
Roche, Katherine
National Institutes of Health/NINDS/USA

S31-03 SYNAPTIC ALTERATION UNDERLYING SHANK3 MUTATIONS IN INTELLECTUAL DISABILITY
Verpelli, Chiara
CNR Neuroscience Institute/ITALY

S31-04 THE ROLE OF PROSAP/SHANK AT EXCITATORY SYNAPSES
Boeckers, Tobias
Ulm University/GERMANY

Cozumel B

Symposia S32
THE NEUROVASCULAR UNIT AND IMMUNE CELL TRAFFICKING IN THE CNS
Chair: James Waschek

S32-01 NEUROPEPTIDE CONTROL OF CNS INFILTRATION AND AUTOIMMUNE ENCEPHALOMYELITIS
Waschek, James
University of California, Los Angeles/USA

S32-02 HOW EFFECTOR T CELLS INVADE THE CNS DURING EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS
Flügel, Alexander
Universitätsmedizin Göttingen/ GERMANY

S32-03 THE ROLE OF VASCULAR BASEMENT MEMBRANES IN LEUKOCYTE MIGRATION INTO THE BRAIN
Sorokin, Lydia
University of Muenster/GERMANY

S32-04 ABSTRACT TITLECNS-IMMUNE INTERACTIONS: A BUSY TWO-WAY STREET
Carson, Monica
University of California Riverside/USA

15:30 – 16:00 Refreshment Break Costa Maya - Level 1

ASN 2013 ASN NEURO Award

The ASN NEURO Travel Award has been establised to support an outstanding young scholar's participation at the ASN meeting.

Debra Mayes

Cincinnati Children's Hospital Medical Center, Ohio, USA

ASN NEURO
asnneuro.org

Wednesday, April 24, 2013

16:00 – 18:00 Scientific Sessions

Gran 1

Symposia S33
DIVERSE PATHWAYS FOR PATHOLOGICAL GLUTAMATE RELEASE IN THE CNS
Co-Chairs: Alex Mongin & Sandra Hewett

S33-01 GAP JUNCTION HEMICHANNELS AS NOVEL THERAPEUTIC TARGETS IN NEURODEGENERATIVE DISORDERS
Suzumura, Akio
Nagoya University/JAPAN

S33-02 SYSTEM XC- AS A POSSIBLE NOVEL TARGET FOR THE TREATMENT OF LIMBIC EPILEPSY AND PARKINSON'S DISEASE
Massie, Ann
Vrije Universiteit Brussel/BELGIUM

S33-03 OXIDATIVE STRESS AND PATHOLOGICAL GLUTAMATE RELEASE IN STROKE: NEW TARGETS FOR THERAPEUTIC INTERVENTIONS
Mongin, Alexander
Albany Medical College/USA

S33-04 GLUTAMATE RELEASE THROUGH GLIAL HEMICHANNELS: FOCUS ON NEURONAL DAMAGE
Orellana, Juan
Pontificia Universidad Católica de Chile/CHILE

Gran 5

Symposia S34
PHAGOCYTIC ROLES OF GLIA IN CNS PHYSIOLOGY AND PATHOLOGY
Chair: Jonathan Kipnis (Jordi Folch-Pi)

S34-01 PHAGOCYTIC ACTIVITY OF CNS NON-PROFESSIONAL PHAGOCYTES IS REQUIRED TO MAINTAIN ADULT NEUROGENESIS
Kipnis, Jonathan
University of Virginia/USA

S34-02 INSULIN-LIKE SIGNALING NETWORKS REGULATE GLIAL RESPONSES TO AXON DEGENERATION
Logan, Mary
Oregon Health and Science University/USA

S34-03 PHAGOCYTOSIS BY GLIA PROGENITORS IN NEURODEVELOPMENT: THE ROLE OF JEDI
Carter, Bruce
Vanderbilt University Medical Center/USA

S34-04 MICROGLIAL PHAGOCYTOSIS SHAPES ADULT HIPPOCAMPAL NEUROGENESIS
Sierra, Amanda
University of the Basque Country and Ikerbasque Foundation/SPAIN

Cozumel A

Symposia S35
DETERMINING AXONAL LATERALITY IN THE CNS: NEW VIEWS EMERGING FROM AN OLD TOPIC
Co-Chairs: Eloisa Herrera & Carol Mason

S35-01 TO CROSS OR NOT TO CROSS: MECHANISMS REGULATING AXON GUIDANCE AT THE MIDLINE IN DROSOPHILA
Bashaw, Greg
University of Pennsylvania/USA

S35-02 NEURAL-VASCULAR INTERACTIONS IN THE CONTROL OF AXON ORGANISATION AND LATERALITY IN THE DEVELOPING VISUAL SYSTEM
Erskine, Lynda
University of Aberdeen/UK

S35-03 ZIC2 IS A MAJOR DETERMINANT OF AXON MIDLINE AVOIDANCE DURING THE FORMATION OF BILATERAL CIRCUITS IN THE CNS
Herrera, Eloisa
Consejo Superior de Investigaciones Científicas/SPAIN

S35-04 RETINAL GANGLION CELL AXON GUIDANCE: MULTIPLE CUES FOR MANEUVERING THE CHIASM MIDLINE
Mason, Carol
Columbia University/USA

Cozumel B

Symposia S36
DIABETES AND THE BRAIN
Chair: Susan Vannucci

S36-01 IMPACT OF DIABETES ON CEREBRAL STRUCTURE AND FUNCTION
Seaquist, Elizabeth
University of Minnesota/USA

S36-02 CNS PPAR-GAMMA SIGNALING INCREASES ADIPOSITY AND BLUNTS STRESS REACTIVITY IN RATS
Ryan, Karen
University of Cincinnati/USA

S36-03 DIABETES AND STROKE
Simpson, Ian
Penn State College of Meicine/USA

S36-04 TYPE 2 DIABETES IN RATS ARE ASSOCIATED WITH ALTERED BRAIN GLYCOGEN AND AMINO-ACID HOMEOSTASIS
Waagepetersen, Helle
University of Copenhagen/DENMARK

19:30 – 23:00 ISN-ASN Farewell Fiesta — Gran A - Level 3
All registered delegates are invited to attend, but you must redeem your voucher for an official ticket by 12:00 Tuesday at the ASN Desk

Poster Session II

No Photography Allowed of Posters

Authors Present Tuesday 13:30 — 14:30 and Wednesday 12:30 — 13:30

PTW01
Therapeutic Approaches of Parkinson's Disease

PTW01-01 A. Chavarria
Neuroprotective effect of silymarin in a mouse model of Parkinson's disease

PTW01-02 A.G. Kanthasamy
Anti-neuroinflammatory Effect of a Novel Compound Mitoapocynin in Experimental Models of Parkinson's Disease

PTW01-03 P.K. Korah
5-HT2A and 5-HT2C receptors functional regulation in 6-OHDA induced Parkinson's disease: Neuroprotection by BMC, 5-HT and GABA

PTW01-04 A. Marteyn
Evaluation of myelination potential of human myelin producing cells in a mouse model of Pelizaeus-Merzbacher Disease

PTW01-05 D.N. Nthenge-Ngumbau
Irsogladine, a PDE-IV inhibitor protects against experimental Parkinsonism

PTW01-06 C.L. Parish
Cell intrinsic and extrinsic factors contribute to enhance the integration of neural transplants in Parkinsonian mice

PTW01-07 A. Singh
Neuroprotective effect of Nimodipine, a L-type calcium channel antagonist in cellular model of Parkinson's disease

PTW01-08 D. Tripathy
Generation of dopaminergic neurons from mouse ESC and post transplantation recovery in rotenone-induced experimental parkinsonism

PTW02
Myelination and Demyelination

PTW02-01 D. Brites
Unconjugated bilirubin adversely affects myelinogenesis

PTW02-02 M. Buelow
Combination of neonatal cerebral ischemia and systemic endotoxin modulates expression of oligodendroglial genes

PTW02-03 K.J. Chang
Paranodal ankyrins: enigmatic glial anchors?

PTW02-04 V. Donovan
Repeated Mild Traumatic Brain Injury Results in White Matter Disruption

PTW02-05 C.F. Dreyfus
Following demyelination, ACPD increases myelin proteins by regulating production of astrocyte-derived BDNF

PTW02-06 A. Etxeberria
Decreased neuronal activity promotes OPC differentiation and myelination

PTW02-07 A.S. Falcão
Cross-talk between neurons and astrocytes in response to bilirubin

PTW02-08 D.L. Feinstein
The inhaled anesthetic sevoflurane provides benefit in chronic EAE

PTW02-09 D. Fulton
Neuronal activity and AMPA-type glutamate receptors regulate oligodendrocyte precursor cell process morphology and proliferation

PTW02-10 S.M. Glasgow
Evidence that nuclear factor IA inhibits repair after white matter injury

PTW02-11 M. Guardia Clausi
ALK5 inhibition prevents astrogliosis, microgliosis and promotes myelination subsequent to neonatal hypoxia-ischemia

PTW02-12 N.V. Gulyaeva
Nitrosative stress in the pathogenesis of multiple sclerosis

PTW02-13 A.K. Hebert
Neural stem cells infected with TMEV fail to produce functional oligodendrocytes via activation of TNF-alpha mediated apoptosis

PTW02-14 T.S. Ho
The roles of ankyrin-G in the formation and the maintenance of nodes of Ranvier in vivo

PTW02-15 V. Jain
Role of glial cells and cytokines in progression of hypobaric hypoxia induced neurodegeneration: neuro-glial interplay

PTW02-16 M. Koenning
Myelin gene Regulatory Factor in the transcriptional control of myelin maintenance and remyelination

PTW02-17 S. Kumar
Lack of Aspartoacylase Alters Developmental Mechanisms Leading to Progressive Leukodystrophy

PTW02-18 D.F. Leitner
Semaphorin4A is Elevated in Fatal Murine Cerebral Malaria and is Pro-Apoptotic to Oligodendrocyte Progenitors

PTW02-19 D.F. Leitner
Iron Deficiency Alters Tim2 and CXCR4

PTW02-20 D.F. Leitner
Semaphorin4A is Elevated in Fatal Murine Cerebral Malaria and is Pro-Apoptotic to Oligodendrocyte Progenitors

PTW02-21 Z. Martinez-Lozada
Na+-Dependent Glutamate Transporters as Regulators of Oligodendrocyte Differentiation

PTW02-22 D.A. Mayes
Antioxidant Rescue of Nf1/Ras-induced Defects in Myelin and Vasculature

PTW02-23 A. Mogha
Regulation of Myelination by Two Adhesion-GPCRs: Gpr126 and Gpr56

PTW02-24 A.L. Moyano
Mobilization of sulfatide species in plasma and CSF of Multiple Sclerosis patients: a gender-related factor?

PTW02-25 H. Nobuta
Crosstalk between reactive astrocytes and microglia mediates oligodendrocyte development in neonatal brain injury

PTW02-26 A.S. Paintlia
Rho Family GTPase Inhibition Protects Immature Oligodendrocytes against Cytokine toxicity via PPAR-alfa Dependent Mechanism

PTW02-27 J. Palazuelos
TGF-β signaling drives oligodendrocyte progenitor cell myelination and remyelination

PTW02-29 P.P. Pillai
Crosstalk between integrins and growth factor receptors in oligodendrocyte proliferation, survival and migration

PTW02-30 Y. Reiji
Expression of Unconventional myosin 1D in CNS myelin

PTW02-31 A. Sahel
Neuronal-NG2 cells synapses and their potential relevance in remyelination

PTW02-32 K. Shibasaki
Mechanosensor TRPV2 channel enhances axon outgrowth through its activation by membrane stretch

PTW02-33 V. Tepavcevic
Netrin-1 and central nervous system remyelination

PTW02-34 H.E. Titus-Mitchell
The Role of the Notch Pathway in Nervous System Pathogenesis in Gain of Function Rasopathies

PTW02-35 H.R. Weng
Presynaptic NMDA receptors are used by interleukin-1β to enhance glutamate release from spinal primary afferent terminals

PTW02-36 W. Wisessmith
Exploring the role of cathepsin C and cystatin F in demyelinating diseases

PTW02-37 S. Zou
Stage-specific effects of HIV-1 Tat on the viability and phenotype of oligodendroglia: interactions with glutamatergic receptors

Poster Session II

No Photography Allowed of Posters

Authors Present Tuesday 13:30 — 14:30 and Wednesday 12:30 — 13:30

PTW03 Ischemia and Oxidative Stress

PTW03-01 E. Babusikova
Ischaemia and oxidative stress modulate expression of amyloid degrading enzymes

PTW03-02 N.H. Bowens
Oxidative stress triggers opening of connexin-43 hemichannels and glutamate release in primary rat astrocytes

PTW03-03 E. Brekke
The pentose phosphate pathway in the neonatal brain

PTW03-04 J. Cui
Protective effects of Elderberry and Sutherlandia on cerebral ischemic injury in mice

PTW03-05 M.D. Ferraz
Effects of Prenatal Hypoxia-Ischemic in the Anxiety, NADPH-d distribution in periaqueductal gray matter and Cardiovascular System

PTW03-06 D.F. Goncalves
The role f striatal acetylcholine in cerebral ischemic lesion and functional recovery

PTW03-07 H. Hara
A role of metallothionein-1 and -2 in the ocular neovascularization

PTW03-08 D.A. Johnson
Cell-Specific Overexpression of Nuclear Factor Erythroid 2-Related Factor in Microglia Attenuates Activation in vitro and in vivo

PTW03-09 M.S. Kindy
Pim-1 kinase inhibits pathological injury by promoting neuroprotective signaling

PTW03-10 I.P. Koerner
Activated microglia contribute to delayed neuronal death after cardiac arrest

PTW03-11 M. Kou
Ifrd1 expression responsive to middle cerebral artery occlusion in murine brains

PTW03-12 T.N. Lin
ATF3 alleviates ischemic brain injury by attenuating apoptotic neuronal death

PTW03-13 A. Longoni
Effect of different concentrations of calcitriol on oxidative stress parameters in wistar rats prefrontal cortex

PTW03-14 J. Munoz-Sanchez
Transcript and protein expression of Heme oxygenase isoforms in an in vivo model of cerebral ischemia

PTW03-15 I. Singh
S-Nitrosoglutathione stimulates mediators of neurorepair following cerebral ischemia reperfusion injury in rats

PTW03-16 J.C. Tobón-Velasco
Activation of Nrf2 and attenuation of NF-kB pathways by S-Allylcysteine, protects against 6-OHDA by modulating signaling kinase

PTW03-17 R. Vemuganti
Induction of α-synuclein mediated by miR-7 down-regulation contributes to ischemic cell death

PTW04 Synaptic Plasticity

PTW04-01 R. Agrawal
Perinatal exposure of omega-3 fatty acid programs energy metabolism and brain plasticity for traumatic brain injury in adulthood

PTW04-02 I. Allaman
Lactate as a signaling molecule for the regulation of plasticity-related genes expression

PTW04-03 L.G. Caceres
Modifications in hippocampal environment could underlie behavioral changes observed in rats irradiated at birth

PTW04-04 D.V. Castillo-Padilla
Effects of Transcranial Magnetic Stimulation on rats dark-reared during the critical period

PTW04-05 T. Duka
Developmental variations in pre- and post-synaptic proteins content in chimpanzee cerebral cortex

PTW04-06 K. Ganguly
MMP-9 transcription in the mice brain during fear induced learning

PTW04-07 O. García
Thrombospondin-1 (TSP-1) knockout mice exhibit a decreased dendritic spine density and altered recognition memory

PTW04-08 P.M. Iuvone
Circadian regulation of vision: control of contrast sensitivity by a dopamine → NPAS2 → cyclic AMP signaling pathway

PTW04-09 A.N. Kaminskaya
Adult neuromuscular junctions and memory formation of limk1 mutant strains D. melanogaster

PTW04-10 N.M. Maldonado
Basolateral amygdala ERK1/2 pathway underlie both the enhancement of anxiety-like behaviour and the facilitating influence on fear

PTW04-11 S. Mioranzza
Perigestational caffeine intake affects the immunocontent of synaptic proteins involved in fetal brain development

PTW04-12 J. Palecek
Modulation of nociceptive synaptic transmission at spinal cord level by TRPV1 and CB1 receptors

PTW04-13 T.R. Roppongi
5-HT2A receptor activation is reduces the accumulation of drebrin in dendritic spines

PTW04-14 M. Sandoval
Fluoxetine-induced activation of the receptor for BDNF, TrkB, and changes in NMDA-R subunit composition and trafficking

PTW04-15 R. Schmidt
Involvement of fish ependymins and mammalian homologues in CNS plasticity

PTW04-16 E. Tyagi
Dietary transition alters vulnerability for anxiety-like behavior in response to traumatic brain injury

PTW04-17 D.S. Vasilev
Redistribution of labile synaptopodin-positive spines as an essential factor of neuronal plasticity

PTW04-18 O.S. Vitiuk
Homo- and hetero-oligomers of neuronal protein GAP-43 and brain abundant amyloid-like protein BASP1

PTW05 Neuronal Polarity

PTW05-01 K.L. Baalman
Plasticity and Proteolysis of the Axon Initial Segment after Mild Traumatic Brain Injury

PTW05-02 M.D. Gjørlund
Neuroligin-1 activates fibroblast growth factor receptor-1 via binding to neurexin-1beta

PTW05-03 S. Hisanaga
LMTK1/AATYK1 negatively regulates dendritic arborization of cortical neurons through endosomal trafficking

PTW05-04 M.C. Hohnholt
Hydrogen peroxide-induced glutathione export from neurons

PTW05-05 M. Iketani
Axonal branching in lateral olfactory tract is regulated by LOTUS, an endogenous Nogo receptor antagonist

PTW05-06 C. Martínez Paniagua
Glutamine uptake in cerebellar granule cells: PKA-dependent regulation

PTW05-07 I. Mestres
Evidence for the involvement of SARA in neuronal polarization and cortical layer lamination

PTW05-08 M. Olguin
Role of reactive oxygen species in the trophic actions of BDNF and NMDA in cerebellar granule neurons

PTW05-09 H.R. Quintá
A novel role for galectin-1 in axonal regeneration in spinal cord injury

Poster Session II

No Photography Allowed of Posters

Authors Present Tuesday 13:30 — 14:30 and Wednesday 12:30 — 13:30

PTW06 Animal Model of Neuropsychiatric Disorders

PTW06-01 E.A. Chesnokova
Opioid peptides endomorphin-2 and soymorphin-5-amide are able to cross blood-brain barrier after intraperitoneal administration

PTW06-02 E. Djouma
Differences in galanin receptor binding in the nucleus accumbens may mediate alcohol consumption in alcohol-preferring rats

PTW06-03 M.R. Ferraz
The effects of maternal separation during early postnatal development on male rat sexual behaviour

PTW06-04 K. Glombik
The effect of chronic antidepressant treatment on brain insulin signaling in prenatally stressed rats

PTW06-05 Z. Helyes
Activation of somatostatin receptor subtype 4 (sst4) inhibits anxiety and depression-like behaviours in mouse models

PTW06-06 G. Lopez-Armas
Different vulnerability between male and female in proliferation of NG2 hippocampal cells and development anxiety and depressive l

PTW06-07 M.S. Nin
Antidepressant effect expression of BDNF and GABAA-R subunits after Nuc. Accumbens and PF-Cortex administration of allopregnanolone in rats

PTW06-08 A.C. Nunciato
Development of a new model for adult mouse depression

PTW06-09 A. Persson
The human CYP2C19 enzyme influences fetal brain development and adult phenotypes in transgenic mice

PTW06-10 M. Rapanelli
Regulation of H2 and H3 receptors expression in a rodent model of Tourette's Syndrome

PTW06-11 A.J. Rivera-Angulo
Effects of isocitrate on gasping and autoresuscitation in neonatal mice

PTW06-12 J. Syka
Age-related protein changes in the auditory system of the rat

PTW06-13 T. Taniguchi
SJLB; an animal model for Alzheimer disease and L-dopa resistant parkinsonism in tauopathy

PTW06-14 S.R. Williams
Minocycline interferes with glutamate neurotransmission in an animal model of psychosis and with neurovascular coupling

PTW06-15 Y. Yabuki
Mechanism underlying cognitive dysfunction in neonatal ventral hippocampus-lesioned rats as animal model of schizophrenia

PTW06-16 H. Zhou
Interleukin-1beta does not mediate maternal lipopolysaccharide-induced attenuation of offspring neuroinflammation

PTW07 Molecular Mechanism of Alzheimer's Disease

PTW07-01 R. Akhter
The essential role and regulation of proapoptotic PUMA induction in Alzheimer's Disease models

PTW07-02 C. Ari
Impaired Neurotransmitter and Neurotrophin Receptor Localization and Function in Alzheimer's Disease Caused by Inhibition of Eg5

PTW07-03 R. Cukalevski
Amyloid β-protein: The influence of intrinsic and extrinsic factors on fibril formation

PTW07-04 A.K. Fu
Blockade of EphA4 signaling rescues the Abeta-induced deficit of hippocampal synaptic plasticity

PTW07-05 P.A. Harcha
Amyloid peptide induces early infiltration and rapid degranulation of Mast cells via a Panx1-dependent mechanism

PTW07-06 Y. Ishizuka
Histone deacetylase (HDAC) inhibitor attenuates the effect of Amyloid beta on dendritic spine function

PTW07-07 M.R. Nichols
Interaction between amyloid-beta protofibrils and microglia

PTW07-08 V.G. Ostapchenko
Inhibition of Aβ binding to prion protein by stress-inducible protein 1: a possible neuroprotector in Alzheimer's disease

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AD Abeta Mutations & Deletions Define Neuronal Binding/Internalization As Early Stage Nonfibrillar Aggregates & Late Stage Fibrils

PTW07-10 B.N. Ramesh
Abeta(42) induced MRI changes in aged rabbit brain resembles Alzheimer's disease brain

PTW07-11 L.E. Santos
Loss of choline acetyltransferase activity caused by oxidative damage: Mechanism and possible implications for Alzheimer's disease

PTW07-12 J.H. Tam
AP-3 mediates the direct trafficking of APP to lysosomes and is implicated in Alzheimer's Disease

PTW07-13 E.M. York
Epigenetic Regulation of Aging Microglia in Alzheimer's Disease

PTW08 Neurodegenerative Disease

PTW08-01 T.A. Abayomi
Effects of Acute and Chronic sleep deprivation on the neuronal morphology of prefrontal cortex of male wistar rats

PTW08-02 A.I. Acuña
Traffic of ascorbic acid transporter SVCT2 is impaired in Huntington's disease

PTW08-03 Z. Akgoc
Bis(monoacylglycero)phosphate accumulation in gangliosidoses brain

PTW08-04 N. Ali
Parkinson's disease cybrids exhibit mitochondrial respiration deficiency & altered expression of mitochondrial integrity proteins

PTW08-05 T.L. Bastos de Melo
Effect of lithium on memory of old rats exposed to air pollution

PTW08-06 F.A. Beltrán
A failure in ascorbic acid homeostasis is responsible for the metabolic impairment in Huntington's disease

PTW08-07 P. Bhattacharjee
Enzymes from Aristolochia indica inhibit co-aggregation of fibrinogen-Aβ40: an implication in neurovascular diseases

PTW08-08 E.R. Bongarzone
AKT-mediated muscle atrophy in Krabbe disease

PTW08-09 S. Bouabid
Manganese neurotoxicity induces atypical parkinsonism in the rat

PTW08-10 Q. Chen
Neuroimmune responses associated with Wallerian degeneration are required for axonal sprouting in the injured spinal cord

PTW08-11 A. Dasgupta
Protein carbonylation scavengers and aggregation inhibitors prevent neuronal cell death during partial glutathione depletion

PTW08-12 S. Du
XY sex chromosome complement, compared to XX, in the CNS confers a more neurodegenerative response to injury

PTW08-13 J. Duarte
Extended neurochemical profile in the aging mouse brain detected in vivo by proton magnetic resonance spectroscopy

PTW08-14 S. Faim
Cerebral accumulation of manganese and DMT-1 levels are associated with alterations in balance and gait in experimental manganism

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Impacts of a post-translational modification of the glial glutamate transporter in the context of amyotrophic lateral sclerosis

PTW08-16 R. Gabriel
Retinal aging: Differences between wild type ans PACAP KO mice

PTW08-17 L. Guan
The effect of tyrosine hydroxylase on alpha-synuclein aggregation

PTW08-18 V.L. Hodgkinson
A novel mouse model of X-linked spinal muscular atrophy type 3

PTW08-19 P. Kumar
Amyloid beta neurotoxicity and neuroprotective role of 17β estradiol in aging rat brain synaptosomes

PTW08-20 V. Kumar
Monocrotophos induces apoptosis/neuronal injury in primary cultures of rat neuronal stem cells by targeting trk-A pathways

PTW08-21 J.R. Liddell
Induction of Nrf2-regulated antioxidants by a neuroprotective copper-bis(thiosemicarbazonato) complex in cultured astrocytes

PTW08-22 W.J. Lukiw
Metal-sulfate triggered, NF-κB-mediated, up-regulation of miRNA in primary human brain cell models of Alzheimer's disease

PTW08-23 D.F. MacFabe
Neuropathological and biochemical effects of dietary propionic acid in rats -further development of a rodent model of autism

PTW08-24 D.F. MacFabe
Unique acylcarnitines in a rat model of autism predict potential biomarkers for mitochondrial dysfunction in autistic patients

PTW08-25 M.S. Marcora
Differential neurotoxicity caused by mild overexpression of amyloid peptides associated with human dementias in Drosophila

PTW08-26 R.R. Masvekar
Toxic effects in murine striatal neuron cultures induced by HIVSF162: interactions with morphine

PTW08-27 L. Moore
Sorting out the cellular composition of Proneural Glioblastoma

PTW08-28 P.U. Nwoha
Exposure to refuse dump affects brain, liver and behaviour of wistar rats

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PGC1-alpha regulation and mitochondrial biogenesis in Huntington's disease transgenic neurons

PTW08-30 R.V. Omkumar
A simple end-point assay method for Calcium channels

PTW08-31 X. Pan
The ALS-associated proteins FUS and TDP-43 induce neurotoxicity but act via divergent pathways in Drosophila

PTW08-32 S. Prioni
Glycosphingolipid patterns and glycohydrolases behavior in acid-sphingomyelinase knock-out mice

PTW08-33 R. Saito
Oxidative stress–induced insolubilization of an ubiquitin ligase HRD1 may be involved in amyloid β generation

PTW08-34 R.R. Sama
A role for the ALS-associated protein FUS/TLS in cellular stress response

PTW08-35 M.B. Santos
Distribution and Vesicular Mobilization of the Neurotoxin Psychosine in the nervous system

PTW08-36 C. Savoia
Genetic ablation of the fission dynamin related protein (DRP1) protects neurons from cerebral ischemia in vitro

PTW08-37 N.W. Seeds
Neuroserpin up-regulation in the Alzheimer's brain is associated with elevated thyroid hormone receptor-1β & HuD expression

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Ethylenedioxy-PIP2 oxalate reduces ganglioside storage in juvenile Sandhoff disease mice

PTW08-39 N. Singla
Modulatory role of Zinc on apoptotic machinery altered by Aluminium in rat brain

PTW08-40 R.D. Spence
Neuroinflammation mediated through estrogen receptor alpha, not estrogen receptor beta, in astrocytes

PTW08-41 T.R. Stankiewicz
Dysregulation of Rho or Rac elicits death of NSC34 cells and activation of these GTPases is altered in G93A mSOD1 mice

PTW08-42 J.B. Strosznajder
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PTW08-43 T. Sural-Fehr
PI3K/Akt signaling pathway in the neuropathology of Krabbe disease

PTW08-44 A.R. Vaz
Exploring motor-neuron degeneration in ALS - interaction with microglia and restoring ability by glycoursodeoxycholic acid

PTW08-45 C.M. Viegas
In vivo disruption of redox homeostasis caused by the synergistic action of methylmalonic acid and ammonia in brain of young rats

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Loss of P2Y2 Nucleotide Receptors Enhances Early Pathology in the TgCRND8 Mouse Model of Alzheimer's Disease

PTW08-49 J. Wilkins
Phosphoglycerate mutase 5 (PGAM5) participates in mitochondrial function

PTW08-50 A.J. Wisdom
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PTW08-51 M. Zaninello
Autophagy depletes axons of primary retinal ganglion cells from mitochondria expressing pathogenic mutants of Opa1

PTW08-52 X.D. Zhang
HMGB1 mediates mitochondria dysfunction-triggered autophagy and apoptosis activation in rat striatum

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PTW09-02 P. Correia-de-Sá
Fine-tuning modulation of GABA and glutamate uptake by purinoceptors in the human epileptic neocortex

PTW09-03 A.Y. Galvez-Contreras
Phenytoin induces oligodendroglial differentiation in adult neural progenitors of SVZ in mice

PTW09-04 A.S. Gardiner
MicroRNA-495 competes with the RNA-binding protein HuD for control of BDNF gene expression

PTW09-05 N. Ghanem
Control of adult neurogenesis in the olfactory bulb by the retinoblastoma protein, Rb

PTW09-06 G. Hanin
Silenced miR-608/acetylcholinesterase Interaction Elevates Anxiety, Inflammation and Blood Pressure

PTW09-07 R.B. Ibrahim
Effect of the aqueous leaf extract of Rauwolfia vomitoria on the prefrontal cortex of adult wistar rats

PTW09-08 T.M. Keck
Novel dopamine D3 receptor antagonists as tools for in vivo investigation in psychostimulant addiction

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PTW09-10 K. Kuteykin-Teplyakov
Towards the molecular mechanism of empathy: proteomic analysis of regulation networks involved in MDMA-induced social interaction

PTW09-11 M.M. Odeon
Consequences of chronic maternal separation and alcohol intake on adolescent rats

PTW09-12 A. Pal
Potential role of Shank1 in the alteration of dendritic spine morphology during long term morphine exposure

PTW09-13 A.K. Pani
Neurochemical Analysis of Adenosine and its Intracellular Metabolites in Brain of Inbred Mouse Strains

PTW09-14 A.I. Peter
Ameliorative effects of Neurovite™ on Histopathological changes of the Cerebellum of Lamuvidine treated wistar rats

PTW09-15 C. Rae
Differential effects of very low and low to moderate concentrations of alcohol on brain metabolism

PTW09-16 Z. Rogoz
Effect of repeated co-treatment with fluoxetine and risperidone on the BDNF and p-CREB protein levels in rats

PTW09-17 A.S. Singh
Likely Involvement Of TPH1 Variants In The Platelet Hyperserotoninemia And Aetiology Of ASD In The Indian Population

PTW09-18 O.B. Smeland
Mitochondrial metabolic dysfunction and glutamate reduction in the pilocarpine model of temporal lobe epilepsy in mice

PTW09-19 J. Urbanavicius
Role of melanin concentrating hormone (MCH) on the dorsal raphe nucleus: relevance for depression

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Hemopressin promotes oligodendrogenesis in murine subventricular zone cell cultures

PTW09-21 S. Yun
Links between adult hippocampal neurogenesis and antidepressant efficacy in TRIP8b KO mice

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The anti-aging protein Klotho as a therapeutic target for neurodegenerative diseases

PTW10-02 G.D. Calderón
Assessment of oseltamivir and vitamins on Dopamine and 5-HIAA Levels of Young Rat Brain exposed to ozone

PTW10-03 M. Chaturvedi
Nanoparticles mediated delivery of TIMP-1 across BBB and its neuroprotective effects

PTW10-04 A.L. Colín-González
Hemeoxygenase-1 (HO-1) upregulation delays morphological and oxidative damage induced by quinolinic acid in the rat striatum

PTW10-05 L.A. Dell
Organization and number of orexinergic neurons in the hypothalamus of two species of Cetartiodactyla: giraffe and harbour porpoise

PTW10-06 M.B. Ekong
Gongronema latifolium ameliorates Rauwolfia vomitoria-induced behavior, biochemicals, and histomorphology of the cerebral cortex

PTW10-07 K. Fujikawa
Alleviation by ATP of NMDA neurotoxicity in cultured rat hippocampal neurons

PTW10-10 W. Hu
LPS-induced microglial activation shows neuroprotection against brain trauma through enriched expression of acute phase protein

PTW10-11 A. Kamboj
Effects of poly(ADP-ribose) polymerase-1 on mitochondrial function in cortical neuron cultures

PTW10-12 S.O. McGuire
Blueberries: Protective mechanisms in TBI

PTW10-13 F. Nunes
Caffeine administration from adolescence up to adulthood: effects on recognition memory and BDNF immunocontent

PTW10-14 N. Pagnussat
The blockade of adenosine receptor A2A reverse impairment of recognition memory by scopolamine in adult mice

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Cross-talk between IGF-1 and estrogen receptors attenuates apoptosis of ventral spinal cord 4.1 motoneurons due to IFN-gamma

PTW10-16 E. Pinter
Comparative histological investigation of the retina in wild type and somatostatin 4 receptor knockout mice

PTW10-17 V. Pugh
The Development of Riluzole Derivatives with Improved Potency

PTW10-18 T.M. Shih
Tertiary oximes on acetylcholinesterase activity, survival, and neurobehavioral consequences following nerve agent exposure

PTW10-19 C.I. Tasca
The neuroprotective agent Guanosine activates big conductance Ca2+-activated Potassium channels (BK) transfected to HEK-293 cells

PTW10-20 P. Thichanpiang
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PTW10-21 T. Thippeswamy
Strategies to prevent epileptogenesis: targeting both neuron and glia

PTW10-22 M.C. Xavier-Pinto
Sarcosine Preconditioning Induces Ischemic Tolerance in Rat Hippocampus by Glycinergic and Glutamatergic Neuromodulation

PTW11 Cell Death

PTW11-01 N.L. Banik
Ethanol Exposure-induced Alterations in Ventral Spinal Cord Motor Neurons

PTW11-02 C. Gerónimo-Olvera
Autophagic flux contributes to neuronal cell death induced by glucose deprivation in cortical cultures

PTW11-03 N. Koganezawa
Acute effect of X-irradiation on adult mouse brain

PTW11-04 P. Singh
Ethanol induced glial cells apoptosis: Role and regulation of microRNAs

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CYP2B1 expression induced by nicotine in the rat brain: Implications for tumor treatment

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Axonal regeneration and locomotor recovery in injured spinal cord by iron oxide nanoparticle and magnetic field exposure

PTW12-02 Y. Zong
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PTW12-03 H. Hirokazu
Keratan sulfate to regulates oligodendrocyte development in the embryonic spinal cord

PTW12-04 D.Y. Chuang
Unraveling the role of IFN-γ/ERK1/2 pathway in exacerbating microglia inflammatory responses

PTW12-05 C. Garcia-Keller
Down-regulated GLT-1 expression in astrocytes are related to altered glutamate homeostasis in N. Accumbens Core induced by stress

PTW12-06 G.O. Omotoso
Cytotoxic Effects of Cigarette Smoke on the Cerebellum of Wistar Rats

PTW12-07 J. Prado
Metallothioneins I/II are involved in the neuroprotective effect os sildenafil in focal brain injury

PTW12-08 S. Sonnay
Measurement of long stimulation paradigms with BOLD fMRI in the rat brain for compartmentalized metabolism study

Future Meetings

45th ASN Annual Meeting
March 8 – 12, 2014 - Long Beach, California

46th ASN Annual Meeting
March 14 – 18, 2015 - Atlanta, Georgia

47th ASN Annual Meeting
March 19 – 23, 2016 - Denver, Colorado

25th ISN Meeting
13th APSN Meeting
20th ANS Meeting
24 – 28 August, 2015 - Cairns, Australia

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