2013 Meeting Program
International Society for Neurochemistry
American 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 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.

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

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

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

Special Issues

Recent Special Issues of the journal include:

Pre-Clinical Systematic Reviews

Recent Special Issues of the journal include:

Novel Therapeutic Strategies and Targets for the Treatment of Stroke

Alzheimer’s Disease

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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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

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-Bayghe

Ana Maria 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
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
## 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

### 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
- 12.30 – 14.30: Lunch Provided
- 14.30 – 16.30: Symposia
  - S01 Cellular & Molecular Approaches to Study Autism Spectrum Disorders: Co-Chairs: C. Gottfried & M. Robinson Agramont
  - S02 Mechanisms of Memory Enhancement and Erasure: Co-Chairs: Mauro Costa-Mattioli & 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
- 16.30 – 17.00: Refreshment Break
- 17.00 – 19.00: Workshops
  - W01 Function and Dysfunction in the Nervous System: A Tribute to Prof. Fernando Mello: Chair: Ricardo A. de Melo Reis
  - W02 Role of Nr2 in Oxidative Stress-induced Neuronegeneration: Chair: Abel Santamaria
  - W03 Advances in Neural Metabolism in Vivo: Chair: In-Young Choi
- 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
- 12.30 – 14.30: Lunch Provided
- 14.30 – 16.30: Symposia
  - 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 Széle
  - S12 Novel Approaches to Reveal Brain Structure and Function: Chair: Valentin Nägerl
- 16.30 – 17.00: Refreshment Break
- 17.00 – 19.00: Workshops
  - W04 Animal Models of Human Disorders with Normal and Abnormal Neuronal 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
- 19.15 – 20.30: ASN Business Meeting

**All meetings will take place at the Cancun Convention Center, located in the center of downtown Cancun, Blvd. Kukulkan Km 9**
## Tuesday, April 23

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<tr>
<td>07.30 – 18.00</td>
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<tr>
<td>08.30 – 09.30</td>
<td>Plenary Lecture PL4</td>
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<tr>
<td></td>
<td>Martin Cammata, PhD</td>
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<td>On Memory Formation and Expression</td>
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<tr>
<td>09.30 – 10.00</td>
<td>ASN Marian Kies Lecture YL03</td>
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<td>Sandeep Singh, PhD</td>
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<td></td>
<td>How Do Astrocyte Secreted Proteins Hevin and SPARC Control CNS Synaptogenesis?</td>
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<tr>
<td>10.00 – 10.30</td>
<td>Refreshment Break</td>
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### Symposia

- **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 Gial and Neuronal Control of Brain Energy Metabolism**
  - Chair: Martin Lauritzen

- **S20 Regulators of Neuronal Microtubules in Development and Disease**
  - Chair: Peter Baas

### Lunch Provided

- **Poster Session II Women in Neurochemistry**

### Lunch Provided

- **Poster Session II**

### Sympoa

- **S21 Neuronal Plasticity Under Learning Challenge**
  - Chair: Martine Ammassari Teule

- **S22 From Optogenetics to MicroRNA Revelations in Cholinergic Signaling**
  - Co-Chairs: Jose Diaz Bargas & Hermosa 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

### Refreshment Break

- **16.30 – 17.00**

### Workshops

- **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**

### ISN Business Meeting

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<td>19.30 – 21.30</td>
<td>ISN Business Meeting</td>
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## Wednesday, April 24

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<tr>
<td>07.30 – 15.00</td>
<td>Registration Desk Open</td>
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<tr>
<td>08.30 – 09.30</td>
<td>Plenary Lecture PL5</td>
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<td>Nancy Yuk-Yu Ip, PhD</td>
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<td>Understanding the Molecular Basis of Neural Plasticity</td>
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<tr>
<td>09.30 – 10.00</td>
<td>Refreshment Break</td>
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### Symposia

- **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

### Lunch Provided

- **Poster Session II**

### Lunch Provided

- **Poster Session II**

### Refreshment Break

- **15.30 – 16.00**

### Sympoa

- **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

### Refreshment Break

- **15.30 – 16.00**

### Symposia

- **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)

### ISN Business Meeting

- **19.30 – 21.30**

### Farewell Reception & Fiesta Dinner, Mayan Show & Dancing
Internet & Recharging Station Sponsored by Wiley
Located in Costa Maya Room – Level 1

Sunday        April 21      07.30 – 19.00
Monday        April 22      07.30 – 19.00
Tuesday       April 23      07.30 – 19.00
Wednesday     April 24      07.30 – 17.00

Computers available to check email + Recharging Station

wileyonlinelibrary.com/subject/neuroscience

www.facebook.com/neurosciences       @neuroscience
Saturday, April 20, 2013

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<tr>
<td>08:00 – 16:00</td>
<td>ISN Council Meeting I</td>
<td>Coral Island Room, Fiesta Americana</td>
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<tr>
<td>12:00 – 17:00</td>
<td>ASN Council Meeting I</td>
<td>Coral Sea Room, Fiesta Americana</td>
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<td>13:00 – 19:00</td>
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<td>13:30 – 17:00</td>
<td>Speaker Ready Room</td>
<td>Isla Mujeres 2</td>
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<td>15:30 – 18:00</td>
<td>Scientific Sessions</td>
<td>Cozumel A</td>
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**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

**Cozumel A - Level 3**

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<tr>
<th>Time</th>
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<tr>
<td>18:00 – 19:15</td>
<td>Welcome Remarks &amp; Introductions</td>
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<td>Philip Beart, ISN President</td>
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<td>Steve Levison, ASN President</td>
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<td>Travel Award Winners Recognition</td>
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<td>PL1- Plenary Lecture</td>
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<td>Brain Science Using iPS cell Technology and Transgenic Non-Human Primates</td>
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<td>Hideyuki Okano, MD, PhD</td>
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<td>20:00 – 22:00</td>
<td>ISN-ASN President’s Welcome Reception</td>
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**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**

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<td>07:30 – 18:00</td>
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<td>07:30 – 11:00</td>
<td>Speaker Ready Room</td>
<td>Isla Mujeres 2</td>
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<td>08:00 – 09:00</td>
<td>Continental Breakfast</td>
<td>Costa Maya - Level 1</td>
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<tr>
<td>07:30 – 19:00</td>
<td>Internet/Recharging Station - Sponsored By Wiley</td>
<td>Costa Maya - Level 1</td>
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<tr>
<td>08:00 – 19:00</td>
<td>Poster Session I&lt;br&gt;Set Up Posters Between 07:30 - 08:00, Authors Present 13:30 - 14:30</td>
<td>Level 1</td>
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<tr>
<td>08:30 – 09:30</td>
<td>Welcome &amp; Introductions&lt;br&gt;Alos Saria, ISN Treasurer &amp; President-Elect&lt;br&gt;PL2 Plenary Lecture&lt;br&gt;Huda Y. Zoghbi, MD&lt;br&gt;Disease Neurobiology: Charting the Path from Genes to Therapies</td>
<td>Gran A - Level 3</td>
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<td>09:30 – 10:00</td>
<td>Young ISN Lecturer YL1&lt;br&gt;Aaron Gitler&lt;br&gt;High-Throughput Genetic Screens to Define Mechanisms of Human Neurodegenerative Diseases</td>
<td>Gran A - Level 3</td>
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<tr>
<td>10:00 – 10:30</td>
<td>Refreshment Break</td>
<td>Costa Maya - Level 1</td>
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<td>10:30 – 12:30</td>
<td>Scientific Sessions</td>
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**Symposia S01**<br>**CELLULAR & MOLECULAR APPROACHES TO STUDY AUTISM SPECTRUM DISORDERS**<br>Co-Chairs: Carmen Gottfried & Maria Robinson Agramonte

**S01-01** AUTISM SPECTRUM DISORDERS: UPDATING THE CLINICAL APPROACH<br>Riesgo, Rudimar<br>UFGRS/BRAZIL

**S01-02** CURRENT ASPECTS ON AUTISM-ASSOCIATED BIOMOLECULAR MARKERS<br>Robinson-Agramonte, Maria<br>International Center for Neurological Restoration/Cuba

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

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

**Symposia S02**<br>**MECHANISMS OF MEMORY ENHANCEMENT AND ERASURE**<br>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<br>Yiu, Adelaide<br>Hospital for Sick Children/CANADA

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

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

**S02-04** IMMUNE MOLECULES IN SYNAPTIC PLASTICITY, NETWORK RHYTHMICITY AND ENHANCED COGNITION<br>Costa-Mattoli, Mauro<br>Baylor College of Medicine/USA

**Symposia S03**<br>**MITOCHONDRIAL DYSFUNCTION AND THERAPY**<br>Chair: Jameel Dennis

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

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

**S03-03** MITOCHONDRIAL DYSFUNCTION IN ALZHEIMER’S DISEASE AND NASCENT BIOENERGETIC THERAPIES<br>Onyango, Isaac<br>Gencia Corporation/USA

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

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

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

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

**S04-03** ADENOSINE RECEPTOR HETEROMERIZATION AND CONTROL OF DOPAMINERGIC FUNCTION AND DYSFUNCTION: FOCUS ON PARKINSON’S DISEASE<br>Ciruela, Francisco<br>Departament de Patologia i Terapèutica Experimental/SPAIN

**S04-04** MECHANISMS OF ADENOSINE MEDIATED CONTROL OF NEURODEGENERATION: COMBINED CONTROL OF CA, MITOCHONDRIA AND GLUTAMATE<br>Cunha, Rodrigo<br>University of Coimbra/PORTUGAL
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<tr>
<td>12:30 – 14:30</td>
<td>Lunch Provided / Lunch Ticket #1 - Visit Exhibitors</td>
<td>Costa Maya - Level 1</td>
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<td>12:30 – 14:30</td>
<td>ASN NEURO Editorial Board Meeting</td>
<td>Fiesta Americana</td>
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<td>Lunch with Plenary Speaker - Dr. Zoghbi</td>
<td>Isla Mujeres 2</td>
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<td>Sponsored by NINDS &amp; ISN</td>
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<td>Advance Reservation Required - Sign Up At ISN-ASN Registration Desk</td>
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<td>13:30 – 14:30</td>
<td>Poster Session I - Authors Present</td>
<td>Level 1</td>
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<td>14:30 – 16:30</td>
<td>Scientific Sessions</td>
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### 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 Carolina/ 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 FUND1 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

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<td>16:30 – 17:00</td>
<td>Refreshment Break</td>
<td>Costa Maya - Level 1</td>
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### Scientific Sessions

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<tr>
<td><strong>Workshop W01</strong>&lt;br&gt;FUNCTION AND DYSFUNCTION IN THE NERVOUS SYSTEM: A TRIBUTE TO PROF. FERNANDO MELLO&lt;br&gt;Chair: Ricardo A. de Melo Reis</td>
<td><strong>Workshop W02</strong>&lt;br&gt;ROLE OF Nr2 IN OXIDATIVE STRESS-INDUCED NEURODEGENERATION&lt;br&gt;Chair: Abel Santamaria</td>
<td><strong>Workshop W03</strong>&lt;br&gt;ADVANCES IN NEURAL METABOLISM IN VIVO&lt;br&gt;Chair: In-Young Choi</td>
<td><strong>YIC01</strong>&lt;br&gt;YOUNG INVESTIGATOR COLLOQUIA 1</td>
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<td><strong>W01-01</strong>&lt;br&gt;DOPAMINE MODULATES SRC KINASE AND NMDA RECEPTOR PHOSPHORYLATION IN RETINAL CELLS THROUGH D1 RECEPTORS AND A PKA/CSK PATHWAY&lt;br&gt;Paes-de-Carvalho, Roberto&lt;br&gt;Federal Fluminense University/BRAZIL</td>
<td><strong>W02-01</strong>&lt;br&gt;NRF2 IS A NEW THERAPEUTIC TARGET TO SLOW PROGRESSION OF PARKINSON’S DISEASE&lt;br&gt;Cuadrado, Antonio&lt;br&gt;Autonomous University of Madrid/SPAIN</td>
<td><strong>W03-01</strong>&lt;br&gt;ADVANCES IN NEURAL METABOLISM IN VIVO&lt;br&gt;Choi, In-Young&lt;br&gt;University of Kansas Medical Center/USA</td>
<td><strong>YIC01-01</strong>&lt;br&gt;GENOMIC LANDSCAPE OF TRANSCRIPTIONAL AND EPIGENETIC DYSREGULATION IN A MOUSE MODELED OF EARLY ONSET HUNTINGTON’S DISEASE&lt;br&gt;L. M. Valor&lt;br&gt;Instituto de Neurociencias/SPAIN</td>
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<td><strong>W01-02</strong>&lt;br&gt;ATP RECEPTORS AND SIGNALING PATHWAYS INVOLVED IN THE PROLIFERATION OF LATE DEVELOPING RETINAL PROGENITORS&lt;br&gt;Ventura, Ana&lt;br&gt;Universidade Federal Fluminense/BRAZIL</td>
<td><strong>W02-02</strong>&lt;br&gt;FRACTALKINE ACTIVATES THE Nr2 TO MODULATE GLIAL ACTIVATION IN RESPONSE TO TAU P301L: IMPLICATIONS IN ALZHEIMER’S DISEASE&lt;br&gt;Las tres-Becker, Isabel&lt;br&gt;Departamento de Bioquimica e Instituto de Investigaciones Biomédicas “Alberto Sols” CSIC-UAM, Madrid, Spain</td>
<td><strong>W03-02</strong>&lt;br&gt;ADVANCES IN IN VIVO MR TECHNIQUES FOR NEURAL METABOLISM STUDIES&lt;br&gt;Lee, Phil&lt;br&gt;University of Kansas Medical Center/USA</td>
<td><strong>YIC01-02</strong>&lt;br&gt;TRANSGlutaminase INHIBITION ABROGATES OXIDATIVE STRESS-MEDIATED AND EXCITOTOXIC DEATH: A NEW EPIGENETIC MODULATOR ON THE CNS BLOCK&lt;br&gt;M. Basso&lt;br&gt;Weill Medical College/USA</td>
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<td><strong>W01-03</strong>&lt;br&gt;EXCITOTOXICITY-MEDIATED DEGENERATION OF SPINAL CORD MOTOR NEURONS IN VIVO&lt;br&gt;Tapia, Ricardo&lt;br&gt;Universidad Nacional Autónoma de México/MEXICO</td>
<td><strong>W02-03</strong>&lt;br&gt;ARE ASTROCYTES FROM OLD ANIMALS STILL CAPABLE TO ACTIVATE NRF-2 AND BUILD UP AND ANTIOXIDANT RESPONSE?&lt;br&gt;Königsberg, Mina&lt;br&gt;Universidad Autónoma Metropolitana-Iztapalapa/MEXICO</td>
<td><strong>W03-03</strong>&lt;br&gt;STUDY OF BRAIN ACTIVITY AND ENERGETICS USING IN VIVO OXYGEN-17 MRS IMAGING&lt;br&gt;Chen, Wei&lt;br&gt;University of Minnesota/USA</td>
<td><strong>YIC01-03</strong>&lt;br&gt;BISPHENOL-A DECREASES THE HIPPOCAMPAL NEUROGENESIS THROUGH INHIBITION OF Wnt PATHWAY&lt;br&gt;R. K. Chaturvedi&lt;br&gt;CSIR-Indian Institute of Toxicology Research/INDIA</td>
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<td><strong>W01-04</strong>&lt;br&gt;THE PRION PROTEIN: A PROTOTYPICAL CELL SURFACE SCAFFOLD PROTEIN&lt;br&gt;Linden, Rafael&lt;br&gt;Universidade Federal do Rio de Janeiro/BRAZIL</td>
<td><strong>W02-04</strong>&lt;br&gt;NRF2 IN TOXIC MODELS OF DEGENERATIVE DISORDERS: AN APPROACH TO PARKINSON’S AND HUNTINGTON’S DISEASE&lt;br&gt;Ali, Syed&lt;br&gt;National Center for Toxicological Research/USA</td>
<td><strong>W03-04</strong>&lt;br&gt;NEUROGLIAL METABOLIC COMPARTMENTATION DURING HYPOTHALAMIC ACTIVATION&lt;br&gt;Cerdan, Sebastian&lt;br&gt;CSIC/SPAIN</td>
<td><strong>YIC04-04</strong>&lt;br&gt;NEUROFILAMENT HEAVY CHAIN: A POTENTIAL SERUM MARKER OF NEUROAXONAL DAMAGE IN ACUTE STROKE&lt;br&gt;J. Sellner&lt;br&gt;Paracelsus Medical University/AUSTRIA</td>
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<td><strong>W01-05</strong>&lt;br&gt;INHIBITION OF CHOLINE ACETYLTRANSFERASE AS A MECHANISM FOR CHOLINERGIC DYSFUNCTION INDUCED BY AMYLOID-B PEPTIDE OLIGOMERS&lt;br&gt;Ferreira, Sergio&lt;br&gt;UFRJ - Biophysics Institute/BRAZIL</td>
<td><strong>W02-05</strong>&lt;br&gt;METABOLIC COMPARTMENTATION IN NEURONS AND ASTROCYTES: LESSONS FROM CARBON-13 LABELING STUDIES&lt;br&gt;Schousboe, Arne&lt;br&gt;University of Copenhagen/DENMARK</td>
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<td><strong>W01-06</strong>&lt;br&gt;SYNAPTOTOXIC ABETA OLIGOMERS: A MOLECULAR BASIS FOR THE CAUSE, DIAGNOSIS, AND TREATMENT OF ALZHEIMER’S DISEASE&lt;br&gt;Klein, William&lt;br&gt;Northwestern University/USA</td>
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**19:30 – 22:30**<br>Student & Post - Doc Mingle<br>Sponsored by Sanofi - Wristband Required

Mandala Club Palapa
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<tr>
<td>07:30 – 18:00</td>
<td>ISN-ASN Registration Desk</td>
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<td>07:30 – 11:00</td>
<td>Speaker Ready Room</td>
<td>Isla Mujeres 2</td>
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<td>08:00 – 09:00</td>
<td>Continental Breakfast</td>
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<td>07:30 – 19:00</td>
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<td>08:00 – 19:00</td>
<td>Poster Session I Authors Present 13:30 - 14:30</td>
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<td>08:30 – 09:30</td>
<td>Welcome &amp; Introductions</td>
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<td>Monica Carson, ISN Secretary</td>
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<td>PL3 Plenary Lecture</td>
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<td>Robin Franklin, MD</td>
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<td>Stem Cells and Myelin Regeneration</td>
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<td>09:30 – 10:00</td>
<td>Young ISN Lecturer YL2</td>
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<td>Mauro Costa-Mattioli</td>
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<td>The GATE of memory storage: a molecular and cellular perspective</td>
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<td>09:00 – 13:30</td>
<td>Introducing Neurochemistry to Young Scientists</td>
<td>Isla Mujeres 3-4</td>
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<td>Students from La Salle University</td>
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<td>10:00 – 10:30</td>
<td>Refreshment Break</td>
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<td>Scientific Sessions</td>
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<td>Lunch Provided / Lunch Ticket #2 - Visit Exhibitors</td>
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<td>12:30 – 15:30</td>
<td>Journal of Neurochemistry Editorial Meeting</td>
<td>Fiesta Americana</td>
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<td>12:30 – 13:30</td>
<td>Lunch with Plenary Speaker - Dr. Franklin</td>
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<td>13:30 – 14:30</td>
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<td>14:30 – 16:30</td>
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**Symposia S13**

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

**S13-01** ROLE OF LG4 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/SYCAM4) 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

**Symposia S14**

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

**S14-01** REELIN AS A REGULATOR OF NEUROGENESIS AND GLIOMEGENESIS 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** LYSSOPHOSPHATIDIC ACID SIGNALLING IN NEURAL STEM/PROGENITOR CELLS AND IN NEUROTRAUMA
Pebay, Alice
University of Melbourne/AUSTRALIA

**Symposia S15**

**ABC TRANSPORTERS AND CENTRAL NERVOUS SYSTEM DYSFUNCTIONS**
Co-Chairs: Marina Guizzetti & Davide Totti

**S15-01** BLOOD-SPINAL CORD BARRIER AND ABC DRUG EFFLUX TRANSPORTER ALTERATIONS IN AMYOTROPHIC LATERAL SCLEROSIS
Totti, 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

**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
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<td><strong>Workshop W04</strong>&lt;br&gt;ANIMAL MODELS OF HUMAN&lt;br&gt;DISORDERS WITH NORMAL AND&lt;br&gt;ABNORMAL NEUROGLIAL&lt;br&gt;INTERACTION&lt;br&gt;Co-Chairs: Araceli Espinosa-Jeffrey&lt;br&gt;&amp; K. Ikenaka&lt;br&gt;W04-01 NEUROPROTECTION OF MEDIUM-SIZED SPINY NEURONS AND NEURAL PROGENITORS IN A MOUSE MODEL OF GLUTAMATE EXCITOTOXICITY&lt;br&gt;Espinosa-Jeffrey, Araceli&lt;br&gt;UCLA/USA&lt;br&gt;W04-02 THE ROLE OF MICROGLIA-IMMUNE INTERACTION IN NEURODEGENERATION OF ALS MOUSE MODEL&lt;br&gt;Yamanaka, Koji&lt;br&gt;RIKEN Brain Science Institute, Nagoya University/JAPAN&lt;br&gt;W04-03 TERMINATION OF REMYELINATION IS REGULATED BY MICROGLIA IN DEMYELINATING MOUSE MODELS&lt;br&gt;Ikenaka, Kazuhiro&lt;br&gt;National Institute for Physiological Sciences/JAPAN&lt;br&gt;W04-04 MICROGLIAL ACTIVATION RAPIDLY MODULATES SYNAPTIC ACTIVITY&lt;br&gt;Bessis, Alain&lt;br&gt;Institut de Biologie, Ecole Normale Supérieure/FRANCE&lt;br&gt;W04-05 HEREDITARY MUTATIONS RESULTING IN EARLY CHILDHOOD WHITE MATTER DISORDERS&lt;br&gt;Kumar, Shalini&lt;br&gt;Institut de Biologie, University of California Los Angeles/USA</td>
<td><strong>Workshop W05</strong>&lt;br&gt;AN EDITORS’ GUIDE TO JOURNAL PUBLISHING&lt;br&gt;Chair: Shamus O’Reilly&lt;br&gt;This workshop will present a rare opportunity to gain insight into journal publishing from Professors Philip Beart, Michael Robinson, Jörg Schulz and Monica Carson&lt;br&gt;W05-01 AN EDITORS’ GUIDE TO JOURNAL PUBLISHING&lt;br&gt;O’Reilly, Shamus&lt;br&gt;Elsevier/UK</td>
<td><strong>Workshop W06</strong>&lt;br&gt;BASE EXCISION DNA REPAIR, BRAIN AGING &amp; NEURODEGENERATIVE DISEASES&lt;br&gt;Chair: George M. Martin&lt;br&gt;W06-01 INTRODUCTION: GENOMIC INSTABILITY AS A FUNDAMENTAL MECHANISM OF BIOLOGICAL AGING&lt;br&gt;Martin, George&lt;br&gt;University of Washington SOM/USA&lt;br&gt;W06-02 MITOCHONDRIAL GENOME INTEGRITY AND NEURODEGENERATION&lt;br&gt;Bohr, Vilhelm&lt;br&gt;National Institute on Aging, NIH/USA&lt;br&gt;W06-03 BASE EXCISION REPAIR IN THE ISOLATED MAMMALIAN NEURONAL CELLS OF AGING RATS&lt;br&gt;Rao, Kalluri&lt;br&gt;University of Hyderabad/INDIA&lt;br&gt;W06-04 DEFICIENCY IN REPAIR OF OXIDIZED BASES AND STRAND BREAKS IN NEURODEGENERATIVE BRAIN GENOME: INVOLVEMENT OF RNA BINDING PROTEINS&lt;br&gt;Mitra, Sankar&lt;br&gt;Institut de Biologie, University of Texas Medical Branch/USA&lt;br&gt;W06-05 THE ROLE OF FOLATE DEFICIENCY IN THE ALTERED HOMEOSTASIS OF BASE EXCISION REPAIR AND ITS SIGNIFICANCE FOR AGE-RELATED CANCERS&lt;br&gt;Heydari, Ahmad&lt;br&gt;Institut de Biologie, Wayne State University/USA</td>
<td><strong>YIC02</strong>&lt;br&gt;YOUNG INVESTIGATOR COLLOQUIA 2&lt;br&gt;YIC02-01 MULTIFUNCTIONAL ROLES OF THE CO-CHAPERONE AND PRION PROTEIN LIGAND ST11 IN EARLY EMBRYONIC DEVELOPMENT AND CELLULAR STRESS&lt;br&gt;F. H. Beraldo&lt;br&gt;University of Western Ontario/CANADA&lt;br&gt;YIC02-02 ASTROCYTIC GLYCOCEN IS IMPORTANT FOR MAINTENANCE OF NEUROTRANSMISSION&lt;br&gt;A. B. Walls&lt;br&gt;University of Copenhagen/DENMARK&lt;br&gt;YIC02-03 ID4 FUNCTION ANTAGONIZES OLG1 AND OLG2 TO SUPPRESS AGGRESSIVE GliOMA GENESIS&lt;br&gt;E. Huillard&lt;br&gt;University of California, San Francisco/USA</td>
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| **19:15 – 20:30**<br>ASN Business Meeting - All ASN Members Invited<br>Marian Kies Award Winner Announced<br>Jordi Folch-Pi Award Winner Announced<br>ASN NEURO Winner Announced | **Cozumel B**<br>La Basilic Restaurant<br>Fiesta Americana | **20:30 – 22:30**<br>Journal of Neuroscience Research Editors Meeting |
**Poster Session I**

**No Photography Allowed of Posters**
Authors Present 13:30 — 14:30

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**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 zone/telitile

**PSM01-08** A.M. Guillem
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

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**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. Jha
EEG monitoring reveals early development of seizure activity prior to ophisthotonus in several brain regions in thiamine deficiency

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

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

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

**PSM01-18** F.M. Marrotti
A role for sulfatides in the promotion of astrogliosis

**PSM01-19** F. Martinez
Spectral-confocal and microdissection analysis to define the glial cells distribution and glucose/ lactate transporters expression

**PSM01-20** M.C. McKenna
Near-Term and Term Neonatal Hypoxic-Ischemic Brain Injury: Alterations in Brain Metabolite Profile and Neuroprotection

**PSM01-21** P. Montes de Oca Balderas
Rat cultured astrocytes express functional NMDAR that regulate mitochondrial membrane potential

**PSM01-22** T.S. Morken
Glucose and acetate metabolism and glutamate-glutamine cycle in postnatal brain development

**PSM01-23** H. Myuderman
Astrocytes in TDP-43 pathology

**PSM01-24** M. Nakatsuka
p38 mitogen-activated protein kinase and TRPV4 play roles in microglia activation in the trigeminal subnucleus caudalis

**PSM01-25** R. Nakazato
Upregulation by ATP of Runx2 expression in microglial cells

**PSM01-26** L. Nogaroli
Lysophosphatidic acid Effects on Early Postnatal Subventricular Zone Progenitors

**PSM01-27** F.J. Nualart
Comparative analysis of GLUT1 and SVCT2 polarization in choroid plexus cells

**PSM01-28** Y. Otani
TREM2 deficiency increases microglial neurotoxicity while promoting M2 (alternative) microglial activation states

**PSM01-29** C. Proschel
Astrocyte-based therapy for CNS injury: multimodal benefit through secretion of regeneration promoting factors

**PSM01-30** J.M. Prtillo-Pantoja
Role of Presenilin enhancer 2 (Pen2) in the crosstalk PKA-Notch during astrocytic differentiation in C6 Cells

**PSM01-31** A.J. Ramos
S100B is a dam age associated molecular pattern protein (DAMP) that promotes reactive gliosis in a RAGE dependent manners

**PSM01-32** D.I. Ramirez
Fluoride-triggered protein synthesis decrease in cerebellar Bergmann glia cells

**PSM01-33** M.G. Ramirez Sorvelo
Effect of extracts of ibervillera sonorae in the glucose transport in glial cells

**PSM01-34** M.E. Serrano
βSH causes Astrocyte Elongation and Proliferation along with Decreases in Protein Levels of GLT-1 and GFAP

**PSM01-35** S.K. Tiwari-Woodruff
Estrogen receptor (ER)β expression in oligodendrocytes is required for attenuation of clinical disease by ERβ ligand

**PSM01-36** A.L. Ugbode
SHH causes Astrocyte Elongation and Proliferation along with Decreases in Protein Levels of GLT-1 and GFAP

**PSM01-37** A. Vivinetto
Revealing protective effects derived from Oligodendrocyte-Neuron interaction via Myelin-Associated Glycoprotein (MAG)

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

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**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** J.I. Szuko
The role of the adapter protein GULP in Jedi-mediated engulfment of neuronal corpses

**PSM01-42** C.S. Sullivan
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 Ndr2 on astrogial 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** A.L. Ugbode
Revealing protective effects derived from Oligodendrocyte-Neuron interaction via Myelin-Associated Glycoprotein (MAG)

**PSM01-47** A. Vivinetto
Antiepileptic drugs diminish the expression of IL-1b and TNF-a mRNA induced by seizures in the rat hippocampus

**PSM01-48** 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. Cassaneli
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 neureceptor genes in the nervous system of red claw crustacean Cherax quadricarinatus
PSM02-08  H. Hamdan
Human myelin proteolipid protein intron 1 DNA contains an enhancer that is essential for PLP1-lacZ expression in transgenic mice
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 neuropeptidin 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 onneuroinflammation in rat hippocampus in chronic mild stress model of depression
PSM03-07  W.J. Friedman
IL-1β enhances neuronal vulnerability to proNGF-mediated apoptosis by increasing surface expression of p75 and sortilin
PSM03-08  C. Garg
18β-glycyrrhetinic acid and carbamoxalone 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
Galexin-9 is upregulated in astrocytes by proinflammatory cytokines and suppresses encephalitogenic T-cells in the CNS
PSM03-16  H. Lian
Astrogial 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. Pifarre
Amelioration of EAE by sildenafil involves down-regulation of the adaptive immune response and CNS increases in BDNF
PSM03-20  P. Przanowski
Identification of STATs-dependent genetic network in inflammatory microglia
PSM03-21  K. Sato
L-glutamate released from activated microglia downregulates astrocytic L-glutamate transporter expression in neuroinflammation
PSM03-22  P.F. Schuck
Brain damage in hyperphenylalaninemia: a possible role for neuroinflammation
PSM03-23  D.R. Seeger
LPS-induced increased brain arachidonic acid uptake and cajal-retzius cells express CD200 during development and following hypoxia/ischemia in C57BL/6
PSM03-24  K. Shrivastava
A subpopulation of interneurons and Cajal-Retzius cells express Euterpe oleracea Mart. extract on inflamatory responses
PSM03-25  A. Simonyi
Inhibitory effects of an acai (Euterpe oleracea Mart.) extract on inflammatory responses
PSM03-26  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

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**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. Damascoeno  
Nitric Oxide modulates the hyperglycaemia 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

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**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. Kondratik  
The adult neurogenesis is not obligatory for epileptogenesis in status epilepticus induced epilepsy in mice

**PSM05-06**  K. Nagata  
Essential role of S1L1, a causative gene of Marinesco-Sjogren syndrome, in the architecture of cerebrocortical 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. Szabadi  
Ameliorative potential of pituitary adenylate cyclase activating polypeptide in streptozotocin-induced diabetic retinopathy in rats

**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 GT1ax in the brain of an AD transgenic mouse model deficient in G3δ-synthase

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

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**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 parasym pathetic 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 nicotinic acetylcholine receptors in dorsal root ganglia

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

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**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. Collino-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 SYNAPten display altered function during synaptic vesicle endocytosis

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

**PSM07-10**  A. Rangel Lopez  
An ATP binding site regulates synapsin Ila function

**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 Ila function

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

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**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 SNA12 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
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<th>Poster Session I</th>
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<td><strong>No Photography Allowed of Posters</strong></td>
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<tr>
<td><strong>Authors Present 13:30 — 14:30</strong></td>
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</tbody>
</table>

<p>| 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 | J.M. Ornelas |
| Neuroprotective effect of docosahexaenoic 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 Neurblast Proliferation and Neurogenesis in Neonatal Hippocampus |
| PSM08-15 | E. Szoke |
| Differential actions of Pituitary Adenilate Cyclase Activating Polypeptide 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 CYP2C3 enzyme interaction by docking |
| PSM08-18 | U. Wyneken |
| Homeostatic re-arrangements of TrkB-containing synapic protein complexes following increased neuronal activity |
| PSM08-19 | X. Piao |
| Adhesion G protein-coupled receptor GPR56 in CNS myelination |
| <strong>PSM09 Neurogenesis and Cell Differentiation</strong> |
| PSM09-01 | I. Ajikwa |
| 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 Clp2/Stat2 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. McLennan |
| 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-Yañez |
| 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 |</p>
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<tr>
<td>PSM12-05</td>
<td>H. Janickova</td>
<td>Prolonged Aβ1-42 treatment does not influence membrane localization of M1 muscarinic receptors expressed in CHO cells</td>
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<tr>
<td>PSM12-06</td>
<td>S. Lenz</td>
<td>Impaired retrograde axonal transport contributes to degenerative alterations in a Tau[R406W]-AD model in Drosophila</td>
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<td>PSM12-07</td>
<td>N.N. Nalivaeva</td>
<td>Valproic acid prevents changes in gene expression caused by oxidative stress</td>
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<td>PSM12-08</td>
<td>W. Song</td>
<td>Alteration of BACE1 cleavage contributes to Alzheimer pathogenesis</td>
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<tr>
<td>PSM12-09</td>
<td>H. Tu</td>
<td>The loss of glutamate transporter in astrocytes following beta amyloid exposure is dependent on calpain</td>
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<td>PSM12-10</td>
<td>S. L. Vega</td>
<td>Influence of Activation of Mitochondrial ATP Sensitive Potassium Channels on Toxic Effect of Amyloid β</td>
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<td>07:30 – 11:00</td>
<td>Speaker Ready Room</td>
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<td>08:00 – 09:00</td>
<td>Continental Breakfast</td>
<td>Costa Maya - Level 1</td>
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<td>07:30 – 19:00</td>
<td>Internet/Recharging Station - Sponsored By Wiley</td>
<td>Costa Maya - Level 1</td>
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<td>08:00 – 18:00</td>
<td>Poster Session II           Set Up Posters Between 07:30 - 08:00, Authors Present 13:30 - 14:30</td>
<td>Level 1</td>
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<td>08:30 – 09:30</td>
<td>Welcome &amp; Introductions</td>
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<td>Leszek Kaczmarek, Chair, ISN Program Committee</td>
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<td>PL4 Plenary Lecture</td>
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<td>Martin Cammarota, PhD</td>
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<td>On Memory Formation and Expression</td>
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<td>09:30 – 10:00</td>
<td>ASN Marian Kies Lecture</td>
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<td>Sandeep Singh, PhD</td>
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<td>How do Astrocyte Secreted Proteins Havin and SPARC Control</td>
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<td>CNS Synaptogenesis?</td>
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<td>10:00 – 10:30</td>
<td>Refreshment Break</td>
<td>Costa Maya - Level 1</td>
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<tr>
<td>10:30 – 12:30</td>
<td>Scientific Sessions</td>
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### 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 NEURVOUS 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 NEURVOUS SYSTEMS DISORDERS
Rook, Jerri
Vanderbilt University Medical Center/USA

**S18-03** THE METABOTROPIC GLUTAMATE RECEPTORS: COMPLEX MACHINES FOR NEW DRUGS
Pin, Jean-Philippe
CRNS - 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
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<td>12:00 – 14:30</td>
<td>ASN Council Meeting II</td>
<td>Coral Sea Room, Fiesta Americana</td>
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<tr>
<td>12:30 – 14:30</td>
<td>Lunch Provided / Lunch Ticket #3 - Visit Exhibitors</td>
<td>Costa Maya - Level 1</td>
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<tr>
<td>12:30 – 13:30</td>
<td>Women in Neurochemistry Lunch Sponored by ASN &amp; ISN Advance Reservation Required - Sign Up At ISN-ASN Registration Desk</td>
<td>Gran A - Level 3</td>
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<tr>
<td>12:30 – 13:30</td>
<td>Lunch with Plenary Speaker - Dr. Cammarota Sponsored by NINDS &amp; ISN Advance Reservation Required - Sign Up At ISN-ASN Registration Desk</td>
<td>Isla Mujeres 2</td>
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<td>13:30 – 14:30</td>
<td>Poster Session II - Authors Present</td>
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<td>14:30 – 16:30</td>
<td>Scientific Sessions</td>
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### 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
Middel, Silvia
CNR/ITALY

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

### Symposia S22
FROM OPTOGENETICS TO MicroRNA REVELATIONS IN CHOLINERGIC SIGNALING
Co-Chairs: José Díaz 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
NIHNS/NIH/USA

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

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

### Symposia S23
SHEDDING LIGHT ON THE ASSEMBLY OF SYNAPSE STRUCTURE AND FUNCTION
Prado, Vania
Robarts Research Institute/CANADA

**S23-01** TUNING THE KINETICS OF SYNAPTIC RESPONSES: MECHANISMS REGULATING RELEASE KINETICS IN C. ELEAGANS
Kaplan, Joshua
Harvard University/USA

**S23-02** EXO-ENDOCYTOTIC COUPLING AT THE CALYX OF HELD SYNAPSE
Sakaba, Takeshi
Doshisha University/JAPAN

**S23-03** DYNAMIC CONTROL OF PRESYNAPTIC FUNCTION - THE OTHER TYPE OF SYNAPTIC PLASTICITY
Brose, Nils
Max Planck Institute of Experimental Medicine/GERMANY

### 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 NEUROAL COLECTIVITY IN THE MAMMALIAN BRAIN
Ikeuchi, Yoshihiro
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

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**Tuesday, April 23, 2013**

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<tr>
<td>Workshop W07 GLIA-NEURON SIGNALING: FROM GLIOTRANSMISSION TO NEUROCHEMISTRY Chair: Jean-Pierre Mothe</td>
<td>Workshop W08 ENERGY METABOLISM, SYNAPTIC FUNCTION AND NEURONAL EXCITABILITY Chair: Bregastovski Piotr</td>
<td>YIC03 YOUNG INVESTIGATOR COLLOQUIA 3</td>
<td>YIC04 YOUNG INVESTIGATOR COLLOQUIA 4</td>
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<td>W07-01 GLIAL D-SERINE DRIVES THE DOPAMINE-GLUTAMATE DIALOGUE IN THE PREFRONTAL CORTEX Mothe, Jean-Pierre CNRS - Aix Marseille University/France</td>
<td>W08-01 ENERGY METABOLISM, SYNAPTIC FUNCTION AND NEURONAL EXCITABILITY Bregestovski, Piotr Brain Dynamics Institute/France</td>
<td>YIC03-01 ROLE OF THE NEUROFASCINS IN AXONAL DOMAIN MAINTENANCE A. Desmazieres Centre for Neuroregeneration, University of Edinburgh/UK</td>
<td>YIC04-01 CROSSLINKING-INDUCED ENDOCYTOSIS OF ACETYCHOLINE RECEPTORS BY QUANTUM DOTS C.W. Lee Division of Life Science, State Key Laboratory of Molecular Neuroscience/China</td>
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<td>W07-02 CA2+ SOURCES FOR THE EXOCYTOTIC GLUTAMATE RELEASE FROM ASTROCYTES Parpura, Vladimir University of Alabama/USA</td>
<td>W08-02 NEURONAL ENERGY SUPPLY: REGULATION AND ROLES OF MONOCARBOXYLATE TRANSPORTERS Pellerin, Luc University of Lausanne/Switzerland</td>
<td>YIC03-02 ENDOSESOME-LYSOSOME DYSREGULATION IN AMYOTROPHIC LATERAL SCROIOSIS R.K. Sheean Florey Institute of Neuroscience &amp; Mental Health/Australia</td>
<td>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</td>
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<td>W07-03 THE FABRICS OF ASTROCYTE VESICLE TRAFFIC IN HEALTH AND DISEASE Zorec, Robert Universitza v Ljubljani/Slovenia</td>
<td>W08-03 ENERGY USE AND SUPPLY IN CNS GREY AND WHITE MATTER Attewell, David UCL/UK</td>
<td>YIC03-03 PLASTICITY AND BEHAVIOR IN ANIMAL MODELS OF TOP-43 PROTEINOPATHIES L.M. Igaz University of Buenos Aires/Argentina</td>
<td>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</td>
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<td>W07-04 SYNAPTIC MODULATION MEDIATED BY ASTROCYTE SIGNALING Navarrete, Marta Instituto Cajal, CSIC/Spain</td>
<td>W08-04 BIOENERGETICS OF FAST NEURONAL NETWORK OSCILLATIONS Kann, Oliver University of Heidelberg/Germany</td>
<td>YIC03-04 THE ROLE OF DOPAMINE SIGNALLING IN THE GABAergic NEURON DEVELOPMENT AND MOTOR BEHAVIOR IN ZEBRAFISH LARVAE B.R. Souza Universidad Federale de Minas Gerais/Brazil</td>
<td>YIC04-04 THE ROLE OF mGlut5 RECEPTOR IN EXTINCTION OF DRUG-SEEKING BEHAVIOR J.H. Kim University of Melbourne/Australia</td>
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19:00 – 19:30 ISN Schools Alumni Social Isla Mujeres 2
19:30 – 21:30 ISN Business Meeting All ISN Members Invited

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**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
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<td>07:30 – 11:00</td>
<td>Speaker Ready Room</td>
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<td>08:00 – 09:00</td>
<td>Continental Breakfast</td>
<td>Costa Maya - Level 1</td>
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<td>07:30 – 17:00</td>
<td>Internet/Recharging Station - Sponsored By Wiley</td>
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<td>08:00 – 17:00</td>
<td>Poster Session II, Authors Present 12:30 - 13:30</td>
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<tr>
<td>08:30 – 09:30</td>
<td>Welcome &amp; Introductions</td>
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<td>Steve Levison, ASN President</td>
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<td>PL5 Plenary Lecture</td>
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<td>Nancy Yuk-Yu Ip, PhD</td>
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<td></td>
<td>Understanding the Molecular Basis of Neural Plasticity</td>
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<td>09:30 – 10:00</td>
<td>Refreshment Break</td>
<td>Costa Maya - Level 1</td>
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### Symposia S25
**THE ROLE OF PUFA 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

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

**S26-01** TRAFFICKING OF METALS AND METAL IONS IMPlicated IN ALZHEIMER’S AND PARKINSON’S DISEASES
Bush, Ashley
University of Melbourne/Australasia

**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
Hershfield, Michal
Ben Gurion University of the Negev/ISREAL

### 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

### 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
**Wednesday, April 24, 2013**

### 13:30 – 15:30 Scientific Sessions

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<td><strong>Symposia S29</strong>&lt;br&gt;MULTI-MODE ACTIONS OF BOTANICAL POLYPHENOLS AGAINST NEURODEGENERATIVE DISEASES&lt;br&gt;Co-Chairs: Grace Sun &amp; Zezong Gu</td>
<td><strong>Symposia S30</strong>&lt;br&gt;STEM CELLS AND BIOMATERIALS FOR THE TREATMENT OF SPINAL CORD INJURY&lt;br&gt;Co-Chairs: Eva Sykova &amp; Jeffery Kocsis</td>
<td><strong>Symposia S31</strong>&lt;br&gt;SYNAPTIC SCAFFOLD PROTEINS IN NORMAL AND PATHOLOGICAL BEHAVIOR&lt;br&gt;Chair: James Waschek</td>
<td><strong>Symposia S32</strong>&lt;br&gt;THE NEUROVASCULAR UNIT AND IMMUNE CELL TRAFFICKING IN THE CNS&lt;br&gt;Chair: James Waschek</td>
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<td><strong>S29-01</strong> NEURORESTORATIVE ACTIVITY OF GREEN TEA, EPIGALLOCATECHIN GALLATE, IN MPTP-INDUCED PARKINSONISM&lt;br&gt;Youdim, Moussa&lt;br&gt;Israel Institute of Technology/ISREAL</td>
<td><strong>S30-01</strong> NEW POSSIBILITIES FOR THE TREATMENT OF ACUTE AND CHRONIC SPINAL CORD INJURY&lt;br&gt;Sykova, Eva&lt;br&gt;Institute of Experimental Medicine ASCR/CZECH REPUBLIC</td>
<td><strong>S31-01</strong> CAMKII&amp;$#46$; IS A GATING MECHANISM OF ACTIVITY-INDUCED STRUCTURAL MODIFICATION OF HIPPOCAMPAL DENDRITIC SPINES&lt;br&gt;Hayashi, Yasunori&lt;br&gt;RIKEN/JAPAN</td>
<td><strong>S32-01</strong> NEUROPEPTIDE CONTROL OF CNS INFLTRATION AND AUTOIMMUNE ENCEPHALOMYELITIS&lt;br&gt;Waschek, James&lt;br&gt;University of California, Los Angeles/USA</td>
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<td><strong>S29-02</strong> NEW INSIGHTS FOR OXIDATIVE AND INFLAMMATORY RESPONSES IN MICROGLIAL CELLS&lt;br&gt;Sun, Grace&lt;br&gt;University of Missouri/USA</td>
<td><strong>S30-02</strong> CELLULAR TRANSPLANTATION APPROACHES TO REPAIR THE INJURED CNS&lt;br&gt;Kocsis, Jeffery&lt;br&gt;Yale University/USA</td>
<td><strong>S31-02</strong> REGULATION OF NMDA RECEPTORS BY MAGUK PROTEINS&lt;br&gt;Roche, Katherine&lt;br&gt;National Institutes of Health/NINDS/USA</td>
<td><strong>S32-02</strong> HOW EFFECTOR T CELLS INVADE THE CNS DURING EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS&lt;br&gt;Flügel, Alexander&lt;br&gt;Universitätsmedizin Göttingen/GERMANY</td>
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<td><strong>S29-03</strong> BOTANICAL ANTI-OXIDANTS ON NITROSATIVE/OXIDATIVE SIGNALING PATHWAYS: QUANTITATIVE PROTEOMIC ANALYSES&lt;br&gt;Gu, Zezong&lt;br&gt;University of Missouri-Columbia/USA</td>
<td><strong>S30-03</strong> HOST CELLULAR INTERACTIONS ON &amp;$#49$;-POLYCAPROLACTONE SCAFFOLDS WITH GROOVED MICRO-TOPOGRAPHY CAN AFFECT BIOLOGICAL PROPERTIES&lt;br&gt;Barnett, Sue&lt;br&gt;University of Glasgow/UK</td>
<td><strong>S31-03</strong> SYNAPTIC ALTERATION UNDERLYING SHANK3 MUTATIONS IN INTELLECTUAL DISABILITY&lt;br&gt;Verpelli, Chiara&lt;br&gt;CNR Neuroscience Institute/ITALY</td>
<td><strong>S32-03</strong> THE ROLE OF VASCULAR BASEMENT MEMBRANES IN LEUKOCYTE MIGRATION INTO THE BRAIN&lt;br&gt;Sorokin, Lydia&lt;br&gt;University of Muenster/GERMANY</td>
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<td><strong>S29-04</strong> ABSTRACT TITLE CURCUMIN IN STRUCTURE-FUNCTION, BIOAVAILABILITY, AND EFFICACY IN MODELS OF NEUROINFLAMMATION AND ALZHEIMER’S DISEASE&lt;br&gt;Cole, Gregory&lt;br&gt;UCLA/VA/USA</td>
<td><strong>S30-04</strong> COMBINATORIAL STRATEGIES FOR USING STEM CELLS &amp; BIOMATERIALS TO FACILITATE RECOVERY OF AXONAL FUNCTION IN THE INJURED SPINAL CORD&lt;br&gt;Velumian, Alexander&lt;br&gt;University Health Network/CANADA</td>
<td><strong>S31-04</strong> THE ROLE OF PROSAP/SHANK AT EXCITATORY SYNAPSES&lt;br&gt;Boeckers, Tobias&lt;br&gt;Ulm University/GERMANY</td>
<td><strong>S32-04</strong> ABSTRACT TITLES- IMMUNE INTERACTIONS: A BUSY TWO-WAY STREET&lt;br&gt;Carson, Monica&lt;br&gt;University of California Riverside/USA</td>
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### 15:30 – 16:00 Refreshment Break

**Costa Maya - Level 1**

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**ASN 2013 ASN NEURO Award**

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

**Debra Mayes**<br>Cincinnati Children’s Hospital Medical Center, Ohio, USA

[asnneuro.org](http://asnneuro.org)
### Wednesday, April 24, 2013

#### 16:00 – 18:00

**Scientific Sessions**

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<td><strong>Symposia S33</strong>&lt;br&gt;DIVERSE PATHWAYS FOR PATHOLOGICAL GLUTAMATE RELEASE IN THE CNS&lt;br&gt;Co-Chairs: Alex Mongin &amp; Sandra Hewett</td>
<td><strong>Symposia S34</strong>&lt;br&gt;PHAGOCYTIC ROLES OF GLIA IN CNS PHYSIOLOGY AND PATHOLOGY&lt;br&gt;Chair: Jonathan Kipnis (Jordi Folch-Pi)</td>
<td><strong>Symposia S35</strong>&lt;br&gt;DETERMINING AXONAL LATERALITY IN THE CNS: NEW VIEWS EMERGING FROM AN OLD TOPIC&lt;br&gt;Co-Chairs: Eloisa Herrera &amp; Carol Mason</td>
<td><strong>Symposia S36</strong>&lt;br&gt;DIABETES AND THE BRAIN&lt;br&gt;Chair: Susan Vannucci</td>
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<td><strong>S33-01</strong> GAP JUNCTION HEMICHANNELS AS NOVEL THERAPEUTIC TARGETS IN NEURODEGENERATIVE DISORDERS&lt;br&gt;Suzumura, Akio&lt;br&gt;Nagoya University/JAPAN</td>
<td><strong>S34-01</strong> PHAGOCYTIC ACTIVITY OF CNS NON-PROFESSIONAL PHAGOCYTES IS REQUIRED TO MAINTAIN ADULT NEUROGENESIS&lt;br&gt;Kipnis, Jonathan&lt;br&gt;University of Virginia/USA</td>
<td><strong>S35-01</strong> TO CROSS OR NOT TO CROSS: MECHANISMS REGULATING AXON GUIDANCE AT THE MIDLINE IN DROSOPHILA&lt;br&gt;Bashaw, Greg&lt;br&gt;University of Pennsylvania/USA</td>
<td><strong>S36-01</strong> IMPACT OF DIABETES ON CEREBRAL STRUCTURE AND FUNCTION&lt;br&gt;Seaquist, Elizabeth&lt;br&gt;University of Minnesota/USA</td>
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<td><strong>S33-02</strong> SYSTEM XC- AS A POSSIBLE NOVEL TARGET FOR THE TREATMENT OF LIMBIC EPILEPSY AND PARKINSON’S DISEASE&lt;br&gt;Massie, Ann&lt;br&gt;Vrije Universiteit Brussel/BELGIUM</td>
<td><strong>S34-02</strong> INSULIN-LIKE SIGNALING NETWORKS REGULATE GLIAL RESPONSES TO AXON DEGENERATION&lt;br&gt;Logan, Mary&lt;br&gt;Oregon Health and Science University/USA</td>
<td><strong>S35-02</strong> NEURAL-VASCULAR INTERACTIONS IN THE CONTROL OF AXON ORGANISATION AND LATERALITY IN THE DEVELOPING VISUAL SYSTEM&lt;br&gt;Erskine, Lynda&lt;br&gt;University of Aberdeen/UK</td>
<td><strong>S36-02</strong> CNS PPAR-GAMMA SIGNALING INCREASES ADIPOSYTIC AND BLUNTS STRESS REACTIVITY IN RATS&lt;br&gt;Ryan, Karen&lt;br&gt;University of Cincinnati/USA</td>
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<td><strong>S33-03</strong> OXIDATIVE STRESS AND PATHOLOGICAL GLUTAMATE RELEASE IN STROKE: NEW TARGETS FOR THERAPEUTIC INTERVENTIONS&lt;br&gt;Mongin, Alexander&lt;br&gt;Albany Medical College/USA</td>
<td><strong>S34-03</strong> PHAGOCYTOSIS BY GLIA PROGENITORS IN NEURODEVELOPMENT: THE ROLE OF JEDI&lt;br&gt;Carter, Bruce&lt;br&gt;Vanderbilt University Medical Center/USA</td>
<td><strong>S35-03</strong> ZIC2 IS A MAJOR DETERMINANT OF AXON MIDLINE AVOIDANCE DURING THE FORMATION OF BILATERAL CIRCUITS IN THE CNS&lt;br&gt;Herrera, Eloisa&lt;br&gt;Consejo Superior de Investigaciones Científicas/SPAIN</td>
<td><strong>S36-03</strong> DIABETES AND STROKE&lt;br&gt;Simpson, Ian&lt;br&gt;Penn State College of Medicine/USA</td>
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<td><strong>S33-04</strong> GLUTAMATE RELEASE THROUGH GLIAL HEMICHANNELS: FOCUS ON NEURONAL DAMAGE&lt;br&gt;Orellana, Juan&lt;br&gt;Pontificia Universidad Católica de Chile/CHILE</td>
<td><strong>S34-04</strong> MICROGLIAL PHAGOCYTOSIS SHAPES ADULT HIPPOCAMPAL NEUROGENESIS&lt;br&gt;Sierra, Amanda&lt;br&gt;University of the Basque Country and Ikerbasque Foundation/SPAIN</td>
<td><strong>S35-04</strong> RETINAL GANGLION CELL AXON GUIDANCE: MULTIPLE CUES FOR MANEUVERING THE CHIASM MIDLINE&lt;br&gt;Mason, Carol&lt;br&gt;Columbia University/USA</td>
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#### 19:30 – 23:00

**ISN-ASN Farewell Fiesta**

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
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Principles of Molecular, Cellular, and Medical Neurobiology

Edited by Scott T. Brady, George J. Siegel, R. Wayne Albers and Donald L. Price
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2. Glial Function in Health and Disease
3. Cellular Metabolism and Neurotransmission
4. Neurodegeneration

The program committee encourages proposals from younger investigators, and recommends senior investigators have a junior investigator as co-organizer.

Both ASN members and non-members are invited to submit proposals.

Details for submitting session proposals can be found at: asneurochem.org

Questions and inquiries about session topics and session formats can be directed to Erhard Bieberich, Program Chair - erhard@asneurochem.org

The Deadline for Session Proposals is May 08, 2013
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