Seeing the impact of disease drives me to find tomorrow's medical breakthrough.

As a medicinal chemist, it’s important to get professional satisfaction from the small, everyday successes. Synthesizing a molecule that makes it all the way to clinical trials is exceptional, and only less than 1% of medicinal chemists have developed a compound that actually becomes an approved drug. What motivates me is thinking about what a medical breakthrough could mean for patients.

EMD Serono Inc. is an affiliate of Merck KGaA Darmstadt, Germany. EMD Serono creates breakthrough solutions by transforming medical science in our therapeutic areas of focus: oncology, neurodegenerative diseases, rheumatology, fertility and endocrinology.

Discover more about our stories at: www.emdserono.com

Brian Hodous
Senior Principal Investigator
Medicinal Chemistry
EMD Serono, Cambridge, USA

EMD Serono, Inc. is an affiliate of Merck KGaA, Darmstadt, Germany.

KEY JOURNALS IN NEUROSCIENCE from WILEY-BLACKWELL

Wiley-Blackwell has an extensive range of neuroscience journals, working with societies and associations worldwide to publish the very best in academic, clinical expertise and student learning. We publish 31 journals across the discipline in subjects including neurobiology, neuropathology, brain mapping, and much more.

Related journals include:
- Synapse
- Sleep and Biological Rhythms
- Developmental Neurobiology
- Developmental Psychobiology
- Anatomical Record
- Developmental Dynamics
- Journal of Physiology
- Addiction Biology
- Journal of Comparative Neurology
- Journal of Microscopy
- Hippocampus
1 2011 Program-At-A-Glance
All functions are held at the Hyatt Riverfront Hotel

**Friday, March 18**
- 3:00 pm – 7:00 pm  ASN Registration Desk Open 4th Floor Foyer

**Saturday, March 19**
- 7:00 am – 6:00 pm  ASN Registration Desk Open 4th Floor Foyer
- 8:00 am – 5:00 pm  Pre-Meeting Workshop  
  *MicroRNA: From Theory to Practice*  
  Ballroom C
- 12:00 pm – 5:00 pm  ASN Council Meeting  
  Ballroom A
- 2:00 pm – 4:00 pm  ASN Public Forum  
  *Public Forum on Alzheimer’s Disease*  
  Ballroom B
- 6:30 pm – 8:00 pm  ASN President’s Welcome Reception  
  4th Floor Pre-Function

**Sunday, March 20**
- 7:00 am – 6:00 pm  ASN Registration Desk Open 4th Floor Foyer
- 7:00 am – 8:00 am  Continental Breakfast 4th Floor Foyer
- 7:00 am – 7:00 pm  Internet/Job Posting Room  
  Park View Room
- 8:00 am – 9:15 am  ASN Plenary Session - Dr. Hugo Bellen  
  Ballroom D
- 9:30 am – 7:00 pm  ASN Scientific Sessions/Posters/Exhibitors  
  Ballrooms - 4th Floor
- 12:00 pm – 1:00 pm  Lunch with Plenary Speaker - Dr. Bellen - Ticket Required  
  Mills 6
- 7:30 pm – 10:00 pm  Student/Post-Doc Mingle - Ticket Required  
  BB’s Jazz Club

**Monday, March 21**
- 7:00 am – 6:00 pm  ASN Registration Desk Open 4th Floor Foyer
- 7:00 am – 8:00 am  Continental Breakfast 4th Floor Foyer
- 7:00 am – 5:30 pm  Internet/Job Posting Room  
  Park View Room
- 8:00 am – 9:15 am  ASN Plenary Session - Dr. Maiken Nedergaard  
  Ballroom D
- 9:30 am – 6:30 pm  ASN Scientific Sessions/Posters/Exhibitors  
  Ballrooms - 4th Floor
- 12:00 pm – 1:00 pm  Women in Neurochemistry (WIN) Luncheon - Ticket Required  
  Mills 3
- 12:00 pm – 1:00 pm  Lunch with Plenary Speaker - Dr. Nedergaard - Ticket Required  
  Mills 6
- 6:45 pm – 8:30 pm  ASN Business Meeting — All Members Invited to Attend  
  Ballroom D

**Tuesday, March 22**
- 7:00 am – 6:00 pm  ASN Registration Desk Open 4th Floor Foyer
- 7:00 am – 8:00 am  Continental Breakfast 4th Floor Foyer
- 8:00 am – 9:15 am  ASN Plenary Session - Dr. Sally Temple  
  Ballroom D
- 9:00 am – 1:30 pm  High School Science Students Day  
  Ballroom C
- 9:30 am – 7:00 pm  ASN Scientific Sessions/Posters/Exhibitors  
  Ballrooms - 4th Floor
- 11:30 am – 1:30 pm  ASN NEURO Editors Meeting  
  Mills 3
- 12:00 pm – 1:00 pm  Lunch with Plenary Speaker - Dr. Temple - Ticket Required  
  Mills 6

**Wednesday, March 23**
- 7:00 am – 4:00 pm  ASN Registration Desk Open 4th Floor Foyer
- 7:00 am – 8:00 am  Continental Breakfast 4th Floor Foyer
- 7:30 am – 5:00 pm  Internet/Job Posting Room - Sponsored by: Springer  
  Park View Room
- 8:00 am – 5:00 pm  ASN Scientific Sessions  
  Ballrooms - 4th Floor
- 10:00 am – 5:00 pm  Posters/Exhibitors  
  Ballrooms
- 12:45 pm – 1:45 pm  Lunch with Plenary Speaker - Dr. Lennart Mucken - Ticket Required  
  Mills 6
- 12:30 pm – 2:30 pm  ASN Council Meeting  
  Mills 3
- 5:15 pm – 6:15 pm  ASN Plenary Session - Dr. Lennart Mucken  
  Ballroom D
- 7:30 pm – 11:00 pm  ASN Closing Party  
  Ballroom G
Basic Neurochemistry, Eighth Edition
Molecular, Cellular and Medical Aspects
Edited by Scott T. Brady, George J. Siegel, R. Wayne Albers and Donald L. Price
©American Society for Neurochemistry

New edition coming Fall 2011!

This is a classic advanced neurochemistry and neurobiology textbook that has a renewed focus on clinical applications. This book provides a foundation of all key principles of neurochemistry and neurobiology—within the context of human diseases—for advanced students and graduate students in neuroscience, biomedical sciences, as well as clinical neuroscientists and neurologists.

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The Latest in Molecular and Cellular Neurobiology

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Terri Wood

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Grace Sun
Co-Chair
Gary Weissman
Co-Chair
Jeff Gidday
Michael Nichols

Hyatt 4th Floor Meeting Rooms
### Saturday, March 19, 2011

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<td>4th Floor Foyer</td>
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</table>
| 8:00 am – 5:00 pm | Pre-Meeting Workshop  
**MicroRNA: From Theory to Practice**  
*Chair: Sandra Hewett*  
*Sponsored by: NIH/Sanofi-Aventis/BioSpherix* | Ballroom C                |
| 12:00 pm – 1:00 pm | Workshop Lunch                                                        | Mills 3                   |
| 12:00 pm – 5:00 pm | ASN Council Meeting                                                    | Ballroom A                |
| 2:00 pm – 6:00 pm | Internet Room - *Sponsored by: Springer*                              | Parkview Room             |
| 2:00 pm – 4:00 pm | ASN Public Forum on Alzheimer’s Disease  
*Chair: Grace Sun*  
*Speakers: David Oliver, PhD, Moderator*  
*David M. Holtzman, MD*  
*John C. Morris, MD*  
*Linda Van Eldik, PhD*  
*Sponsored by: Sanofi-Aventis / University of Missouri* | Ballroom B                |
| 6:30 pm – 8:00 pm | ASN President’s Welcome reception  
*Sponsored by: The Deans Office, The Department of Neurology, and the McDonnell Center for Cellular & Molecular Neuroscience at Washington University School of Medicine in St. Louis* | Pre-Function D            |

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**Springer Science Internet Room**

*Located in the Park View Room on the 4th Floor*

**March 20 – 23, 2011**

- **Sunday** 7:00 am – 7:00 pm
- **Monday** 7:00 am – 7:00 pm
- **Tuesday** 7:00 am – 7:00 pm
- **Wednesday** 7:00 am – 5:00 pm

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*Springer*

*the language of science*
7:00 am – 6:00 pm
ASN Registration Desk Open
4th Floor Foyer

7:00 am – 8:00 am
Continental Breakfast
4th Floor Foyer

8:00 am – 7:00 pm
Poster Session I
Ballrooms E, F, G, H

8:00 am – 8:15 am
General Session
Welcome - Doug Feinstein, President
• New Members Recognition
• Travel Awardees Recognition
• Marian Kies Award Presentation to Bozho Todorich, PhD

8:15 am – 9:15 am
Plenary Speaker
Dr. Hugo Bellen
Molecular Mechanisms of Vesicle Trafficking and Exocytosis

9:15 am – 9:30 am
Refreshment Break
4th Floor Foyer

9:30 am – 11:30 am
ASN Scientific Sessions
Ballrooms – 4th Floor

Symposium SO1
What Governs the Life Path of mRNA to Build a Normal Brain?
Chair: Franca Cambi

S01-01 Casaccia, Patrizia
Epigenetic Regulation of oligodendrocyte differentiation

S01-02 Cambi, Franca
Alternative splicing in developing oligodendrocytes

S01-03 Feng, Yue
Posttranscriptional control in oligodendroglia and myelin development by the QKI-pathway

S01-04 Yeo, Gene
RNA binding networks in mammalian neurons

S01-05 Richter, Joel
Translational Control of Synaptic Plasticity

Symposium SO2
Blood-Brain Barrier Dysfunction in Neurological Disease
Chair: Gary Rosenberg

S02-01 Candelario-Jalil, Eduardo
Cyclooxygenase-2 regulation of blood-brain barrier disruption in ischemic stroke

S02-02 Banks, William
Integration of the Blood-brain Barrier into the Neuroimmune Axis

S02-03 Ronaldson, Patrick
Modulation of Blood-Brain Barrier Functional Integrity by Pain/Inflammation

S02-04 Persidsky, Yuri
Blood-Brain Barrier Injury in Alcohol and Drug Addiction

12:00 pm – 1:00 pm
Lunch with Plenary Speaker - Dr. Bellen
Mills 6

Sponsored by: International Society for Neurochemistry and NIH
Ticket Required

12:00 pm – 1:00 pm
2012 Committee Meeting
Chair: Francesca Bossetti
Mills 3

Symposium SO3
Astrocytes and Synaptic Plasticity
Chair: Philip Haydon

S03-01 Rusakov, Dmitri
Ca2+ signals in astrocytes and synaptic function: the quest continues

S03-02 Scharfman, Helen
Glial aquaporin-4 channels are required for BDNF-dependent synaptic plasticity and selective forms of spatial memory

S03-03 Andersson, M
Astrocyte-mediated short-term synaptic plasticity

S03-04 Coulter, Douglas
Reactive Astrocytosis selectively blocks GABAergic transmission in Epilepsy

S03-05 Haydon, Philip
The alleged glial controversy is no more: conditions under which astrocytic IP3/Ca2+ signals do modulate synaptic plasticity
### Colloquium CO1

**Marian Kies Memorial Symposium**

**Microglia-Synapse Interactions in Health and Disease**

**Chair:** Dorothy Schafer

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<td>Microglia and the complement system: Unveiling novel mechanisms of synaptic remodeling in the developing central nervous system</td>
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<td>C01-02</td>
<td>Perry, Hugh</td>
<td>Synaptic degeneration in chronic neurodegeneration: is there a role for microglia?</td>
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<td>C01-03</td>
<td>Salter, Michael</td>
<td>Microglia-neuron signaling in neuropathic pain</td>
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<td>C01-04</td>
<td>Carson, Monica</td>
<td>Microglial-Neuronal Interactions: Adaptive and Maladaptive Brain Responses to Systemic Inflammatory insults</td>
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### Colloquium CO2

**HIF-1: A Target for Neuroprotection in Stroke**

**Chair:** Honglian Shi

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<td>Mechanism of stabilization of HIF-1α expression in ischemic brain</td>
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<tr>
<td>C02-02</td>
<td>Gazaryan, Irina</td>
<td>High throughput identification of branched inhibitors of HIF prolyl hydroxylase</td>
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<td>C02-03</td>
<td>Cunningham, Lee Anna</td>
<td>Role of HIF-1α in the Neural Stem Cell Response to Focal Cerebral Ischemia</td>
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<tr>
<td>C02-04</td>
<td>Siddiq-Buckley, Ambreena</td>
<td>Prolyl hydroxylase-1 mediates neuroprotection against oxidative stress</td>
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### Colloquium CO3

**Tailoring Therapies to Reality: The Relevance of Understanding Mechanisms of Degeneration in Lysosomal Deficiencies**

**Chair:** Ernesto Bongarzone

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<td>Cotman, Susan</td>
<td>Genetic Models Lead to New Insight into Neuronal Cereoid Lipofuscinosis Disease Mechanisms</td>
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<tr>
<td>C03-02</td>
<td>Sly, William</td>
<td>Hope for delivering enzymes across the blood-brain barrier in lysosomal storage diseases</td>
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<tr>
<td>C03-03</td>
<td>Bongarzone, Ernesto</td>
<td>The role of fast axonal transport in the onset of neurological abnormalities in pediatric leukodystrophies</td>
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<tr>
<td>C03-04</td>
<td>Sands, Mark</td>
<td>Targeting the Primary Enzyme Defect and Inflammation in the Murine Model of Krabbe Disease</td>
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**ASN Welcomes the Following Exhibitors To the 42nd Annual Meeting:**

**ASN NEURO**

Association Book Exhibit

Life Technologies

Milenyi Biotech

RayBiotech, Inc.

Renovo Neural, Inc.

Seahorse Bioscience

TOCRIS Bioscience

Wiley-Blackwell
Sunday, March 20, 2011

 ASN Scientific Sessions

Ballrooms - 4th Floor

3:30 pm – 5:30 pm

Ballroom A

Colloquium CO4
Control of Glial Differentiation by Transcriptional Network
Chair: Richard Lu

C04-01 Carter, Bruce
A role for a BRG1-NFkB complex during Schwann cell differentiation

C04-02 Appel, Bruce
Dynein-mediated Signal Transduction is Necessary for Schwann Cell Myelination

C04-03 Lu, Richard
Transcriptional Control of CNS Myelination

C04-04 Deneen, Benjamin
NFIA coordinates a transcriptional regulatory cascade that controls the initiation of gliogenesis

Ballroom B

Colloquium CO5
Oxidative/Nitrosative Stress: A Double-edged Sword in Neurodegenerative Diseases
Chair: Douglas Anthony

C05-01 Stamler, Jonathan
Protein S-nitrosylation in Health and Diseases

C05-02 Gu, Zezong
Cysteine redox regulation of ubiquitination and protein misfolding in neurodegenerative diseases

C05-03 Swanson, Raymond
NADPH oxidase in neurons; roles in excitotoxicity and stroke

C05-04 Sun, Grace
Targeting NADPH oxidase and phospholipases A(2) in Alzheimer's disease

Ballroom C

Workshop W01
Predoctoral and Postdoctoral Training Programs in Neuroscience
Chair: Steve Levison

W01-01 Kleitman, Naomi
Program Director, Extramural Research Program NIH/NINDS

W01-02 Stark, Jennifer
Director, Research Training Programs National MS Society

W01-03 Carson, Monica
Associate Professor, Biomedical Sciences University California, Riverside Past President - ASN

W01-04 Levison, Steve
Professor of Neuroscience Neurology and Neuroscience UMDNJ President - ASN

5:30 pm – 7:00 pm

Poster Session I - Authors Present Wine/Cheese, Sponsored by: Covance

Ballrooms E, F, G, H

7:30 pm – 10:00 pm

Student & Post Doc Mingle
Featuring: Rich McDonough & Rough Grooves Blues Band
Sponsored by: Sanofi-Aventis, Wiley and NIH

BB's Jazz Club
700 S. Broadway
Get walking directions from ASN Desk

10:00 pm – 12:00 am

Everyone welcome to join the Mingle after 10:00 pm. Show your name badge to have cover charge waived.

The ASN Science as Art Photo Contest

Featuring extraordinary macro and microscopic images of neurochemistry specimens from registered attendees of this meeting

Be sure to cast your vote for the Members Choice Award
Ballot box located at ASN Registration Desk

Prizes sponsored by: Covance
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<tr>
<td>7:00 am – 8:00 am</td>
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<tr>
<td>8:00 am – 6:30 pm</td>
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<tr>
<td>8:00 am – 8:15 am</td>
<td>General Session</td>
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<tr>
<td></td>
<td>• Jordi Folch–Pi Award Presentation to Eduardo Candelario–Jalil</td>
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<td>• Bernard Haber Award Presentation to David Shine, PhD</td>
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<tr>
<td>8:15 am – 9:15 am</td>
<td>Plenary Speaker - Basic Neurochemistry Lecture, Dr. Maiken Nedergaard</td>
<td>Ballroom D</td>
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<tr>
<td></td>
<td>Astrocyte Calcium Imaging and Diseases of the Central Nervous System</td>
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<td><strong>Sponsored by:</strong> Basic Neurochemistry Textbook, 8th Edition</td>
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<tr>
<td>9:15 am – 9:30 am</td>
<td>Refreshment Break</td>
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<td>9:30 am – 11:30 pm</td>
<td>ASN Scientific Sessions</td>
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### Ballroom A

**Symposium SO4**  
Neuronal Membrane Remodeling in Neurite Extension, Neuroprotection and CNS Repair  
**Chair:** Arthur Warrington

- SO4-01  
  Ledeen, Robert  
  Galectin-1 induces neuritogenesis by cross-linking GM1 in neuronal membrane

- SO4-02  
  Henley, John  
  Dynamic Membrane Remodeling during the Extension of Nerve Growth Cones

- SO4-03  
  Rodriguez, Moses  
  Protection of spinal cord axons in vivo by a human IgM that targets neurons

### Ballroom B

**Symposium SO5**  
Functional Roles for P2 Nucleotide Receptors in the Central Nervous System  
**Chair:** Gary Weisman

- SO5-01  
  Weisman, Gary  
  P2Y2 Nucleotide Receptors Mediate Pro-inflammatory and Neuroprotective Responses

- SO5-02  
  Dennis, Jameel  
  Autotaxin promotes oligodendrocyte morphological remodeling through a P2Y12R dependent pathway

- SO5-03  
  Lenertz, Lisa  
  Cell signaling and gene regulation by the P2X7 nucleotide receptor: A key participant in immune, neurological and repair processes

- SO5-04  
  Egan, Terrance  
  Preferential use of unobstructed lateral portals as a modulated access route to the pore of a human P2X4 receptor

### Ballroom C

**Symposium SO6**  
Jordi Folch–Pi Memorial Symposium  
Targeting Fatty Acid Signaling in Neuroinflammation  
**Chair:** Richard Bazinet

- S06-01  
  Bosetti, Francesca  
  Gene deletion or inhibition of cyclooxygenase-2 attenuates cuprizone-induced demyelination and motor deficit in mice

- S06-02  
  Rosenberger, Thad  
  Acetate supplementation, fatty acid metabolism, and neuroglia communication within the central nervous system

- S06-03  
  Bazinet, Richard  
  Protective effects of docosahexaenoic acid in a mouse model of neuroinflammation

- S06-04  
  Bazan, Nicolas  
  Docosanoids: Stereospecific mediators from DHA are sentinels for homeostatic cell survival in stroke and Alzheimers disease

11:45 am – 12:45 pm  
Lunch with Plenary Speaker - Dr. Nedergaard  
**Sponsored by:** International Society for Neurochemistry and NIH  
Ticket Required

11:45 am – 12:45 pm  
Women in Neurochemistry (WIN) Luncheon & Discussion  
**Ticket Required**  
**Sponsored by:** NIH

1:00 pm – 2:00 pm  
Poster Session I - Authors Present  
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<tr>
<td><strong>Colloquium CO6</strong>&lt;br&gt;Dorsal Signaling Systems involved in Oligodendrocyte Maturation in Development and Disease&lt;br&gt;Chair: Judith Grinspan</td>
<td><strong>Colloquium CO7</strong>&lt;br&gt;Autism, Neurochemistry and Animal Models&lt;br&gt;Chair: Thomas Seyfried</td>
<td><strong>Colloquium CO8</strong>&lt;br&gt;Neuroprotection Depends on Phosphatases: Roles of Estrogen and APOE&lt;br&gt;Chair: Michael Vitek</td>
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<td>C06-01 Grinspan, Judith&lt;br&gt;Dorsal signaling factors interact to regulate oligodendrocyte differentiation</td>
<td>C07-01 Noble, Mark&lt;br&gt;The autism/oxidation/toxicology axis and its importance for CNS precursor cell development</td>
<td>C08-01 Simpkins, James&lt;br&gt;Role of Protein Phosphatases in Estrogen Neuroprotection</td>
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<td>C06-02 Cate, Holly&lt;br&gt;Bone morphogenetic protein signaling alters the precursor cell response during CNS demyelination</td>
<td>C07-02 MacFabe, Derrick&lt;br&gt;Enteric Short Chain Fatty Acids AS Possible Environmental Triggers in Autism-The Propionic Acid Rodent Model</td>
<td>C08-02 Iqbal, Khalid&lt;br&gt;I2PP2A/SET and Protein Phosphatase-2A-Based Novel Etiopathogenic Mechanism of Sporadic Alzheimer Disease</td>
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<td>C06-03 Jablonska, Beata&lt;br&gt;Chordin-induced lineage plasticity of adult subventricular zone neuroblasts after demyelination</td>
<td>C07-03 Seyfried, Thomas&lt;br&gt;The EL Mouse: A Natural Model of Autism and Epilepsy</td>
<td>C08-03 Rebeck, G. William&lt;br&gt;ApoE receptor interactions in promoting dendritic spines and reducing glial activation</td>
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<tr>
<td>C06-04 Kessler, John&lt;br&gt;BMP regulation of gliosis after spinal cord injury</td>
<td>C07-04 Babaraese, Elisa&lt;br&gt;A neuron-specific TOG knockout mouse exhibits an autism-like phenotype</td>
<td>C08-04 Vitek, Michael&lt;br&gt;Neuroprotective Peptide-Mimetics of Apolipoprotein-E Improve Behavior and Reduce Pathology in CVN-Alzheimer Mice</td>
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<td>C06-05 Rowitch, David&lt;br&gt;Developmental Perspective on Human White Matter Disease</td>
<td><strong>Oral Presentation OP01</strong>&lt;br&gt;Neurprotection&lt;br&gt;Chair: Alex Mongin</td>
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<td><strong>OP01-04</strong> White, R.E.&lt;br&gt;Identification of Glo1 as a Novel Mediator of Neuroprotection in β-Adrenergic Receptor-Deficient Mice Following Focal Ischemia</td>
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<td><strong>OP01-02</strong> Jana, A&lt;br&gt;Modified saline containing charge-stabilized nanostructures protects human neurons from fibrillar amyloid-beta toxicity via Akt</td>
<td><strong>OP01-05</strong> Greco, T.&lt;br&gt;Sulforaphane Treated Rats Show Increased Resistance of Mitochondria to Redox-Regulated Opening of the Permeability Transition Pore</td>
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<td><strong>OP01-03</strong> Jackman, N.A.&lt;br&gt;Interleukin 1β-mediated Control of Astrocytic Glutathione Capacity</td>
<td><strong>OP01-06</strong> Spence, R.D.&lt;br&gt;Neuroprotection mediated through estrogen receptor alpha on astrocytes</td>
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<tr>
<td><strong>OP01-04</strong> White, R.E.&lt;br&gt;Identification of Glo1 as a Novel Mediator of Neuroprotection in β-Adrenergic Receptor-Deficient Mice Following Focal Ischemia</td>
<td><strong>OP01-07</strong> Peterson, T.S.&lt;br&gt;P2Y2 Nucleotide Receptors Mediate Pro-inflammatory and Neuroprotective Responses in Primary Cells</td>
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**Monday, March 21, 2011**

2:00 pm – 4:00 pm **ASN Scientific Sessions**

**Ballrooms – 4th Floor**

4:00 pm – 4:30 pm Refreshment Break 4th Floor Foyer
### Colloquium CO9
Molecular Mechanisms of Cell Death and Plasticity after Stroke  
Chair: Raghu Vemuganti  
- CO9-01 Dorrance, Anne  
The Effect of Aldosterone on Stroke Outcome  
- CO9-02 Carmichael, Thomas  
Structural and Physiological Reorganization in Peri-Infarct Circuits after Stroke  
- CO9-03 Pelligrino, Dale  
Leukocyte contributions to post-ischemic neuropathology  
- CO9-04 Vemuganti, Raghu  
Role of mir29c in neuronal death after cerebral ischemia  
- CO9-05 Abbruscato, Tom  
Sodium Dependent Glucose Transport in the Ischemic Brain

### Colloquium CO10
Brain Metalloproteases in Degeneration and Regeneration: New Tools and Insights  
Chair: Anthony Turner  
- C010-01 Turner, Anthony  
Targeting metalloproteinases in degenerative diseases  
- C010-02 Leissring, Malcolm  
Insulin-degrading enzyme as a therapeutic target in Alzheimer’s disease  
- C010-03 Yong, V. Wee  
EMMPRIN regulation of matrix metalloproteinases mediates neuroinflammation and neuropathology  
- C010-04 Gottschall, Paul  
ADAMTS: Proteoglycan–cleaving metalloproteases involved in neural plasticity

### Workshop WO2
Viral Vectors in Neuroscience Research  
Chair: Joy Snider  
- WO2-01 Snider, Joy  
Overview of Viral Vectors in Neuroscience Research—What they are and how you can use them  
- WO2-02 Tansey, Malu  
Viral vector tools to investigate the role of neuroinflammation in models of neurodegeneration  
- WO2-03 Sands, Mark  
CNS-Directed Gene Therapy for Inherited Metabolic Diseases

### ASN Business Meeting
All Members Invited

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**43rd Annual ASN Meeting**  
**First Call for Session Proposals**  
Baltimore, Maryland — March 03–07, 2012

The program committee invites you to submit proposals for symposia, colloquia and informal workshops. The ASN program encompasses 4 broad themes:  
1) Building the Nervous System  
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 Matthew Rasband – rasband@bcm.tmc.edu

The deadline for session proposals is April 30, 2011
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Poster Session I

NO PHOTOGRAPHY ALLOWED OF POSTERS
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Poster Session I

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Sunday – Monday

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| PSM11–04 | Verghese, P.B. | ROLE OF APOE LIPIDATION STATUS AND PRESENCE OF THE NEURONAL CELL MEMBRANE IN apoE-AB COMPLEX FORMATION |
| PSM11–05 | Garai, K. | ASSOCIATION–DISSOCIATION BEHAVIOR OF THE APOLIPOPROTEIN E PROTEINS: IMPLICATIONS FOR LIPID BINDING |
| PSM11–06 | Murphy, C.C. | BRAIN PROSTAGLANDIN SYNTHESIS IS INCREASED DURING LPS-INDUCED INFLAMMATION IN ALPHA-SYNUCLEIN DEFICIENT MICE |
| PSM11–07 | Ali-Rahmani, F. | ANALYSIS OF SPHINGOLIPID EXPRESSION: DO HFE VARIANTS IMPACT SPHINGOLIPID METABOLISM? |
| PSM11–08 | O’Brien, D.P. | GM2 GANGLIOSIDOSIS IN JAPANESE CHIN DOGS IS CAUSED BY A MISSENSE MUTATION IN HEXA |

2011 Young Investigator Educational Enhancement Awards

A special thank you to the International Sociey for Neurochemistry for their support and generous contribution to the YIEE Awards.

Yuka Atagi - The University of Illinois at Chicago  
Dr. Lingzhi Bao - The University of Kansas  
Sarah Berth - The University of Illinois at Chicago  
Gunjan Dhawan - The University of North Dakota  
Michelle Erickson - St. Louis University  
Aditi Falnikar - Drexel University  
Somasish Ghosh Dastidar - The University of Texas at Dallas  
Hamdan Hamdan - The University of Arkansas  
Karie Heinecke - Boston College  
Dawn Lee - The University of Rochester  
Amit Mogha - College of Staten Island, CUNY  
Hiroko Nobuta - UCLA  
Dr. Andre Phillips - Kennedy Krieger  
Dr. Prabhu Ramamoorthy - The University of Kansas  
Kaushik Shah - Texas Tech University  
Dr. Rishi Sharma - The University of Missouri  
Lina Wang - The Ohio State University  
David Yang - Rutgers University  
Dr. Xiaoguang Yang - The University of Missouri  
Dr. Jianzheng Zheng - The University of New Mexico
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University of Nebraska Medical Center, Department of Pathology and Microbiology
Washington University in St. Louis
Wiley-Blackwell
Zeiss
# 42nd Annual Meeting
St. Louis, Missouri – 2011

<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
<th>Location</th>
</tr>
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<tbody>
<tr>
<td>7:00 am – 6:00 pm</td>
<td>ASN Registration Desk Open</td>
<td>4th Floor Foyer</td>
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<tr>
<td>7:00 am – 8:00 am</td>
<td>Continental Breakfast</td>
<td>4th Floor Foyer</td>
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<tr>
<td>8:00 am – 7:00 pm</td>
<td>Poster Session II</td>
<td>Ballrooms E, F, G H</td>
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<tr>
<td>8:00 am – 8:15 am</td>
<td>General Session</td>
<td>Ballroom D</td>
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<tr>
<td>8:15 am – 9:15 am</td>
<td>Plenary Speaker-Dr. Sally Temple</td>
<td>Ballroom D</td>
</tr>
<tr>
<td>8:15 am – 9:15 am</td>
<td>Molecular and Cellular Specification of CNS Stem Cells</td>
<td>Sponsored by: Sanofi-Aventis</td>
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<tr>
<td>9:00 am – 2:00 pm</td>
<td>High School Science Students Day</td>
<td>Ballroom C</td>
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<tr>
<td>9:00 am – 9:30 am</td>
<td>Refreshment Break</td>
<td>4th Floor Foyer</td>
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<tr>
<td>9:30 am – 11:30 am</td>
<td>ASN Scientific Sessions</td>
<td>Ballrooms - 4th Floor</td>
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</tbody>
</table>

## Ballroom A

**Symposium SO7**
Oligodendrocyte Differentiation:
How Oligodendrocytes Know When to Say When
Chair: Dana McTigue

- S07-01 Fancy, Stephen
  A therapeutic target for repair in human newborn brain injury and multiple sclerosis

- S07-02 Dugas, Jason
  KLF9 is required for the normal timing of T3-promoted oligodendrocyte differentiation and myelination

- S07-03 Abraham, Carmela
  The Anti-Aging Protein Klotho Affects Oligodendrocyte Differentiation

- S07-04 Giau, Mengsheng
  miRNA and glial development

## Ballroom B

**Symposium SO8**
Role of T cells in Injury and Repair during CNS Inflammation
Chair: Tammy Kielian

- S08-01 Ransohoff, Richard
  Immune surveillance of the CNS: New concepts, new targets

- S08-02 Wilson, Emma
  Mechanisms of T cell migration within the chronically infected brain

- S08-03 Kielian, Tammy
  T cells influence innate immunity and tissue injury during central nervous system bacterial infection

- S08-04 Wekerle, Hartmut
  Border traffic: How autoimmune T cells pass through the blood-brain barrier

## Ballroom D

**Symposium SO9**
Neurochemical Mechanisms of Spinal Plasticity
Chair: Gordon Mitchell

- S09-01 Mantilla, Carlos
  Neurotrophin signaling in phrenic motoneuron plasticity following spinal cord injury

- S09-02 Grau, James
  Modulation of spinal learning by inflammation

- S09-03 Baker-Herman, Tracy
  Mechanisms of spinal plasticity induced by intermittent hypoxia or neural inactivity

- S09-04 Mitchell, Gordon
  Spinal plasticity in ALS and Spinal Injury: Therapeutic Implications

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<tr>
<th>Time</th>
<th>Event Description</th>
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<tr>
<td>12:00 pm – 1:00 pm</td>
<td>Lunch with Plenary Speaker - Dr. Temple</td>
<td>Mills 6</td>
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<td>Sponsored by: International Society for Neurochemistry and NIH</td>
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<tr>
<td>11:30 am – 1:30 pm</td>
<td>ASN NEURO Editors Meeting</td>
<td>Mills 3</td>
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</table>
### Tuesday, March 22, 2011

#### 1:00 pm – 3:00 pm

**Ballroom A**

**Colloquium C011**  
Genes and Pathways involved in Parkinson’s Disease Pathogenesis  
Chair: Hans Büeler  
C011-01 Narendra, Derek  
Parkin is selectively targeted to impaired mitochondria by PINK1 to promote their degradation  
C011-02 Chin, Lih-Shen  
The roles of DJ-1, Parkin and PINK1 in Parkinson’s disease pathogenesis  
C011-03 Büeler, Hans  
PINK1 deficiency results in abnormal dopamine homeostasis and affects innate immune and cell survival signaling  
C011-04 Wolozin, Benjamin  
LRRK2: Integrating the stress response in Parkinson’s disease

**Ballroom B**

**Colloquium C012**  
New Insights into the Compartmentation of Glutamate Metabolism  
Chairs: Karen O’Malley and Mary McKenna  
C012-01 McKenna, Mary  
Neuronal and astrocytic differences in the compartmentation and metabolism of glutamate in brain  
C012-02 Bak, Lasse  
Complexity in cellular glutamate homeostasis and energy metabolism  
C012-03 Chaudhry, Farrukh  
Differential contribution of the system A transporters SAT1 and SAT2 and the system N transporter SN1 to glutamate metabolism  
C012-04 Robinson, Michael  
Proteomic analysis of the glial glutamate transporter, GLT-1: Implications for energetics of transport and brain glutamate metabol  
C012-05 O’Malley, Karen  
Role of glutamate in activating intracellular metabotropic glutamate receptor, mGluR5

**Ballroom D**

**Colloquium C013**  
Molecular Mechanisms that Control Schwann Cell Development and Plasticity  
Chair: Patrice Maurel  
C013-01 Monk, Kelly  
Gpr126 regulates peripheral nerve development and Schwann cell myelination  
C013-02 Svaren, John  
Charting the regulatory landscape of gene expression in peripheral myelination  
C013-03 Yang, David  
p38 MAPK drives Schwann cell dedifferentiation and demyelination  
C013-04 Parkinson, David  
The role of Sox-2 in peripheral nerve development and repair  
C013-05 Tricaud, Nicolas  
The safe turn: How cell polarity proteins control myelin sheath size and thickness

#### 3:00 pm – 3:30 pm

**Refreshment Break**

**4th Floor Foyer**
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<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
<th>Authors</th>
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<tbody>
<tr>
<td>3:30 pm – 5:30 pm</td>
<td>ASN Scientific Sessions</td>
<td>Ballroom A, B, C</td>
<td>Colloquium CO14, Oral Presentation OP02, Workshop W03</td>
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<tr>
<td>Colloquium CO14</td>
<td>Protein Aggregation State and Disease-Related Bioactivity</td>
<td>Ballroom A</td>
<td>Bitan, Gal, Combs, Colin, Kayed, Rakez, Nichols, Michael</td>
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<td></td>
<td>Chair: Michael Nichols</td>
<td>Ballroom C</td>
<td>Chair: Maria Gulinello</td>
</tr>
<tr>
<td>C014-01</td>
<td>Bitan, Gal</td>
<td>Ballroom A</td>
<td>Molecular tweezers – potential therapeutics for amyloid-related diseases</td>
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<tr>
<td>C014-02</td>
<td>Combs, Colin</td>
<td>Ballroom A</td>
<td>Mechanisms of beta amyloid oligomer stimulated microgliosis</td>
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<tr>
<td>C014-03</td>
<td>Kayed, Rakez</td>
<td>Ballroom A</td>
<td>Tau Oligomers in Neurodegenerative Diseases</td>
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<tr>
<td>C014-04</td>
<td>Nichols, Michael</td>
<td>Ballroom A</td>
<td>Amyloid-beta plasticity dictates multiple immune responses</td>
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<tr>
<td>Oral Presentation</td>
<td>OP02</td>
<td>Ballroom B</td>
<td>Myelination/Remyelination</td>
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<tr>
<td>OP02-01</td>
<td>Ishii, A.</td>
<td>Ballroom B</td>
<td>Erk1/2 MAP Kinase Signaling is Required for Myelination in the Peripheral Nervous System</td>
</tr>
<tr>
<td>OP02-02</td>
<td>Beirowski, B.</td>
<td>Ballroom B</td>
<td>Sirtuin 2 deacetylase modulates peripheral myelination through Par-3 polarity signaling</td>
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<tr>
<td>OP02-03</td>
<td>Vestal-Laborde, A.A.</td>
<td>Ballroom B</td>
<td>Novel role of the Nociceptin/Orphanin FQ receptor in oligodendrocyte development and myelination</td>
</tr>
<tr>
<td>OP02-04</td>
<td>Wegener, A.A.</td>
<td>Ballroom B</td>
<td>Function of the b-hilh transcription factor OLG2 in oligodendrocyte differentiation</td>
</tr>
<tr>
<td>OP02-05</td>
<td>Bielecki, B.</td>
<td>Ballroom B</td>
<td>Testosterone is necessary for efficient myelin repair by oligodendrocytes in a model of toxin induced demyelination/remyelination</td>
</tr>
<tr>
<td>OP02-06</td>
<td>Nobuta, H.</td>
<td>Ballroom B</td>
<td>Role of Reactive Astrogliaisis in a Mouse Model of Inflammation-Associated White Matter Injury</td>
</tr>
<tr>
<td>OP02-07</td>
<td>Paez, P.M.</td>
<td>Ballroom B</td>
<td>Goli myelin basic proteins stimulates oligodendrocyte survival and proliferation in the remyelinating adult brain</td>
</tr>
<tr>
<td>OP02-08</td>
<td>Santambrogio, S.</td>
<td>Ballroom B</td>
<td>Perturbation of the SVZ neurogenic niche in a murine model of Krabbe disease: Implication for pathophysiology and therapy</td>
</tr>
<tr>
<td>5:30 pm – 7:00 pm</td>
<td>Poster Session II – Authors Present</td>
<td>Ballroom E, F, G, H</td>
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<td>Reception Sponsored by BioGen Idec</td>
<td>Ballroom E, F, G, H</td>
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<tr>
<td>7:30 pm – 10:30 pm</td>
<td>“Taste of St. Louis” Reception hosted by Thompson Coburn LLP</td>
<td>One Bank Building</td>
<td>One Bank Building</td>
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<td>35th Floor (Corner of 7th &amp; Washington)</td>
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</table>
2011 CAENLA Young Latin American Scholarships

This Award is co-sponsored by the ISN and ASN to promising young neuroscientists from Latin America to attend the Meeting and to visit a U.S. Laboratory for one week.

Maria Fernanda Podestá - University of Buenos Aires
Mariano Guardia Clausi - University of Buenos Aires
Wednesday, March 23, 2011

10:15 am – 12:15 pm

**ASN Scientific Sessions**

**Ballroom A**

Colloquium CO15
Cellular Mechanisms that Regulate CNS Myelination and Remyelination
Chairs: Holly Colognato and Adam Aguirre

C15-01 Mela, Angeliki
The tetraspanin KAI1/CD82 regulates oligodendrocyte progenitor migration, differentiation and myelination

C15-02 Nait Oumesmar, Brahim
Role of Sox17 in oligodendrocyte differentiation and regeneration

C15-03 Aguirre, Adan
N-cadherin promotes cell migration and recruitment of adult SVZ neural progenitor cells after demyelination through EGFR signaling

C15-04 Colognato, Holly
Helping to start and stop myelination: Csk has dual regulatory functions during oligodendrocyte development

C15-05 Melendez-Vasquez, Carmen
Regulation of oligodendrocyte differentiation by non-muscle myosin II

**Ballroom B**

Colloquium CO16
Autoimmune Mechanisms of Peripheral Neuropathies—Guillain-Barré Syndrome and Related Neurological Disorders
Chair: Robert Yu

C16-01 Kusunoki, Susumu
Antibodies to glycoconjugates in autoimmune neuropathies

C16-02 Kanda, Takashi
Immortalized human cells originating from endoneurial capillary: useful tools to study BNB damage in inflammatory neuropathies

C16-03 Willison, Hugh
An active immunisation model of autoimmune neuropathy in GalNAc transferase knockout mice reconstituted with neuronal gangliosides

C16-04 Susuki, Keiichiro
Dysfunction of nodes of Ranvier: A unique mechanism for neurological disease

**Ballroom C**

Colloquium CO17
Conventional and Non-conventional Endocannabinoid Targets for CNS Disorders
Chair: Andrea Giuffrida

C17-01 Stella, Neph
Targeting cannabinoid-like receptors to regulate neuroinflammation and eradicate glioblastomas

C17-02 Giuffrida, Andrea
Neuroprotective and Antidyskinetic Actions of Cannabinoids in Parkinson’s Disease

C17-03 Lichtman, Aron
Targeting Endocannabinoid Catabolic Enzymes to Treat Opioid Dependence

C17-04 McMahon, Lance
Turn it up/turn it down: varying the magnitude of CB1 receptor stimulation in non-human primates

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**2011 ASN NEURO Award**

The ASN NEURO travel award has been established to support an outstanding young scholar’s participation at the ASN Meeting.

**Dr. Robin White** - Stanford University
### 42nd Annual Meeting
St. Louis, Missouri – 2011

#### Wednesday, March 23, 2011

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<th>Event</th>
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</table>
| 12:30 pm – 1:30 pm | Lunch with Plenary Speaker - Dr. Mucke  
*Sponsored by: International Society for Neurochemistry and NIH - Ticket Required*  | Mills 6      |
| 12:30 pm – 2:30 pm | ASN Council Meeting  
Sponsored by: International Society for Neurochemistry and NIH - Ticket Required | Mills 3      |
| 1:30 pm – 2:45 pm | Poster Session II - Authors Present  
Ballrooms E, F, G, H |             |
| 3:00 pm – 5:00 pm | ASN Scientific Sessions  
Ballrooms - 4th Floor |             |

#### Ballroom A
Colloquium CO18  
Physiological and Pathophysiological Signalling in Astroglial Circuits  
Chair: Alexej Verkhratsky

- C18-01 Verkhratsky, Alexej  
  Physiology and pathophysiology of astroglia: An overview
- C18-02 Parpura, Valdimir  
  Ca2+ sources for the exocytotic glutamate release from astrocytes
- C18-03 Montana, Vedrana  
  Bradykinin promotes the chemo-tactic invasion of primary brain tumors
- C18-04 Newman, Eric  
  Glial Regulation of Blood Flow in the Normal and Diabetic Retina

#### Ballroom B
Oral Presentation OP03  
Investigative tools for axonal transport: Case studies from the student files  
Chair: Peter Baas

- 03-01 Falnikar, Aditi  
  Kinesin-5 is a brake on neuronal migration
- 03-02 Wang, Lina  
  Identifying the Motors for Neurofilament Transport
- 03-03 Scott, David  
  Novel Computational Tools for the Analysis of Slow Axonal Transport
- 03-04 Burns, Matthew  
  Kinase Dysregulation of Fast Axonal Transport in Hereditary Spastic Paraplegia

#### Ballroom C
Workshop W04  
The Quest for New Biomarkers: Omics Meet Neurology  
Chair: Anne Boullerne  
*Sponsored by: Sanofi-Aventis*

- W04-01 Portelius, Erik  
  Use of targeted proteomics to identify novel Abeta isoforms in CSF as biomarkers for GSI treatment in Alzheimer’s disease
- W04-02 Dawson, Glyn  
  Lipidomics, Glycomics and the Brain
- W04-03 Levenson, Victor  
  DNA methylation patterns in blood of multiple sclerosis patients
- W04-04 Papini, Anna Maria  
  A "Chemical Reverse Approach" to develop Libraries of Biomarkers of immune-mediated neurological diseases

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</table>
| 5:15 pm – 6:15 pm | Plenary Speaker-Dr. Lennart Mucke  
Using Systems Biology to Tackle the Complexity of Alzheimer's Disease | Ballroom D   |
| 7:30 pm – 11:00 pm | ASN Closing Party  
Ticket Required | Ballroom G    |

### Future Meetings:

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<tr>
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<tr>
<td>ISN/ESN Meeting</td>
<td>August 28 – September 01, 2011</td>
<td>Athens, Greece</td>
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<tr>
<td>ISN Satellite Myelin Meeting</td>
<td>August 24 – 28, 2011</td>
<td>Crete</td>
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<tr>
<td>2012 ASN Annual Meeting</td>
<td>March 03 – 07, 2012</td>
<td>Baltimore, MD</td>
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<tr>
<td>2013 ASN/ISN Joint Meeting</td>
<td>April 20 – 24, 2013</td>
<td>Cancun, Mexico</td>
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<td>Poster Session II</td>
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<td><strong>Tuesday</strong> - <strong>Wednesday</strong></td>
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### PTW01 Development, Differentiation and Disorders

#### PTW01-01 Nicolay, D.J.
BDLINOIC ACID SIGNALING AND OLIGODENDROCYTE DIFFERENTIATION

#### PTW01-02 Dobson, N.R.
LEUKEMIA/LYMPHOMA-RELATED FACTOR-1 (LRF-1) REGULATES OLIGODENDROCYTE LINEAGE CELL DIFFERENTIATION IN THE DEVELOPING CNS

#### PTW01-03 Moore, L.
SPHEROIDS: AN IN VITRO MODEL TO STUDY QUATROPOTELUAL, PDGFAA RESPONSIVE, PROGENITORS OF THE RAT SUBVENTRICULAR ZONE

#### PTW01-04 Lu, P.Y.
RECEPTOR 1-42 AMYLOID BETA PEPTIDE – RAGE INTERACTION IN OXIDATIVE STRESS AND DOWNSTREAM PATHWAYS IN ASTROCYTES AND CEREBRAL ENDOTHELIUM

#### PTW01-05 Mogha, A.
OLIGOMERIC AMYLOID-BETA PEPTIDE ON SIALYL LEWIS X-SELECTIN BONDING AT THE CEREBRAL ENDOTHELIAL CELL SURFACE

#### PTW01-06 Valakh, V.
HIF-1 HAS DIFFERENT EFFECTS ON CEREBRAL DAMAGE AND BLOOD BRAIN BARRIER PERMEABILITY IN ISCHEMIC BRAIN

#### PTW01-07 Bieberich, E.
THERE IS MORE TO A LIPID THAN JUST BEING A FAT: SPHINGOLIPID-GUIDED DIFFERENTIATION OF OLIGODENDROGIAL LINEAGE FROM STEM CELLS

#### PTW01-08 Hung, H.A.
SCHWANN CELL SPECIFIC KNOCKOUT OF NURD CHROMATIN REMODELING COMPLEX RESULTS IN PERIPHERAL HYPOMYELINATION AND AXON DEGENERATION

#### PTW01-09 Ford, J.A.
TOG IS NECESSARY FOR MYELIN FORMATION IN THE CNS

#### PTW01-10 Giampetruzzi, A.
ALTERATIONS IN DENDRITIC SPINES IN THE TUMOR OVEREXPRESSED GENE (TOG) KNOCKOUT MOUSE

#### PTW01-11 Waggner, C.T.
CA2+/CALMODULIN-DEPENDENT PROTEIN KINASE II (CAMK-II): A REGULATOR OF OLIGODENDROCYTE DIFFERENTIATION?

### PTW02 Blood Brain Barrier

#### PTW02-01 Askarova, S.
ROLE OF AMYLOID BETA PEPTIDE – RAGE INTERACTION IN OXIDATIVE STRESS AND DOWNSTREAM PATHWAYS IN ASTROCYTES AND CEREBRAL ENDOTHELIUM

#### PTW02-02 Askarova, S.
OLIGOMERIC AMYLOID-BETA PEPTIDE ON SIALYL LEWIS X-SELECTIN BONDING AT THE CEREBRAL ENDOTHELIAL CELL SURFACE

#### PTW02-04 Yan, J.
HIF-1 HAS DIFFERENT EFFECTS ON CEREBRAL DAMAGE AND BLOOD BRAIN BARRIER PERMEABILITY IN ISCHEMIC BRAIN

#### PTW02-05 Shah, K.
INCREASED SODIUM/GLUCOSE CO-TRANSPORTER (SGLT1) FUNCTION AT THE BLOOD–BRAIN BARRIER (BBB) IN DIABETES

#### PTW02-06 Bao, L.Z.
ARSENITE INDUCES BRAIN VASCULAR ENDOTHELIAL CELL PERMEABILITY INCREASE THROUGH A ROS-VEGF PATHWAY

#### PTW02-07 Dasgupta, S.
SULFOGLUCURONOSYLPARAGLOBOSIDE EXPRESSION IN NEURO-INFLAMMATORY MEDIANET DEATH SIGNAL FOR HUMAN CEREBROMICROVASCULAR ENDOTHELIAL CELLS

### PTW03 Neuroinflammation

#### PTW03-01 Corbett, G.T.
UPREGULATION OF INTERLEUKIN-1 RECEPTOR ANTAGONIST IN NEURONS BY GEMFIBROZIL VIA THE PHOSPHATIDYLINOSITOL 3-KINASE PATHWAY

#### PTW03-02 Konat, G.W.
SYSTEMIC INFLAMMATORY MEDIATORS ARE POTENT ACTIVATORS OF CEREBRAL CHEMOKINE GENES

#### PTW03-03 Pillai, P.P.
CROSSTALK BETWEEN BDNF, NGF AND TNF-α; IN MYELINATING SPINAL CORD CULTURES: POSSIBLE IMPLICATIONS FOR NEUROINFLAMMATORY DISORDERS

#### PTW03-04 Choi, S.Y.
IL-1 Beta RELEASE AFTER INJURY FACILITATES pro-NF MEDIATED NEURONAL DEATH

#### PTW03-05 Hanamsagar, R.M.
THE NLPR3 INFLAMMASOME IS CRITICAL FOR MICROGLIAL RESPONSES TO STAPHYLOCOCUS AUREUS

#### PTW03-06 Viswanathan, D.
AB 1-42 AND IL-1β ENHANCE EXTRACELLULAR ATP RELEASE AND P2Y2 RECEPTOR UPREGULATION IN MOUSE PRIMARY MICROGLIA

#### PTW03-07 Paranjape, G.S.
MONOCYTES AND MICROGLIA ARE ACTIVATED BY DIFFERENT STAGES OF AMYLOID-β FIBRIL FORMATION

#### PTW03-08 Terrill, S.E.
FORMYL PEPTIDE RECEPTOR-LIKE 1 MEDIATES THP-1 MONOCYTE MATURATION INDUCED BY AN OLIGOMERIC AMYLOID-β (1-42) AGGREGATION SPECIES

#### PTW03-09 Bhardwaj, R.
THE ROLE OF YKL-40 IN ASTROCYTES AND GLIOBLASTOMA CELLS

#### PTW03-10 Montana, V.
VESICULAR RELEASE OF MMP2 AND MMP9 FROM GLIOMA CELLS

#### PTW03-11 Zou, S.
HIV-1 TAT AFFECTS THE VIABILITY AND DIFFERENTIATION OF OLIGODENDROGLIA THROUGH GLUTAMATERGIC INTERACTIONS

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**NO PHOTOGRAPHY ALLOWED OF POSTERS**

Authors Present Tuesday: 5:30—7:00pm / Wednesday: 1:30—2:45pm
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**Authors Present Tuesday: 5:30–7:00pm / Wednesday: 1:30–2:45pm**

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