



AMERICAN SOCIETY FOR NEUROCHEMISTRY

The Latest in Molecular and Cellular Neurobiology

37th ANNUAL MEETING PORTLAND, OREGON MARCH 11 – 15, 2006



WELCOME

www.ASNeurochem.org



AMERICAN SOCIETY FOR NEUROCHEMISTRY

OFFICERS

President - Wendy Macklin, Cleveland, OH
Past President - George H. DeVries, Hines, IL
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Treasurer - Jean Merrill, Bridgewater, NJ
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Regina Armstrong (2005—2009)	Sandra Hewett (2003—2007)	David Shine (2005—2009)
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Douglas Feinstein (2003—2007)	Eric Murphy (2005—2009)	Teri Wood (2005—2009)
Vittorio Gallo (2005—2009)	Tom Seyfried (2005—2009)	

ALTERNATE TO THE COUNCIL

Lucia Notterpek (2005—2009)
Jeffrey Yao (2003—2007)

APPOINTMENTS

Intersociety Liaison - Mary McKenna, Baltimore, MD
Parliamentarian - Cara-Lynne Schengrund, Hershey, PA
ASN Business Manager & Meeting Planner - Sheilah Jewart, Windermere, FL

SCIENTIFIC PROGRAM COMMITTEE

Monica Carson, Chair	Karen Chandross	Tammy Kielian	Brian Popko
Regina Armstrong	Paula Dore-Duffy	Steve Levison	Phillip Popovich
Peter Baas	Doug Feinstein	Pedro Lowenstein	Bruce Ransom
Naren Banik	Vittorio Gallo	Mary McKenna	J. Gregor Sutcliffe
Tika Benveniste	Minnetta Gardiner	Lucia Notterpeck	Wendy Macklin
Oscar Bizzozero	James Hewett	Vlad Parpura	

PORTLAND HOST COMMITTEE

Mohammand Sabri, Chair	David Grandy	Charlie Meshul	Lawrence Sherman
Steve Back	Richard Jones	Helina Offner	Peter Spencer
Dennis Bourdette	Pam Lein	Bruce Patton	Desire Tshala-Katumbay
Neelima Chauhan	Malcom Low	Hemachandra Reddy	Govind Vatassery



FRIDAY, MARCH 10

9:00 am – 6:00 pm	ISN/ASN 2007 Committee Meeting	Salon I-II
3:00 pm – 7:00 pm	ASN Registration Desk Open	Lobby

SATURDAY, MARCH 11

7:00 am – 6:00 pm	ASN Registration Desk Open	Plaza Foyer
8:00 am – 4:30 pm	Pre-Meeting Workshop— <i>Identifying Neuronal-Glial Interactions: New Approaches and New Insights</i>	Pavilion East
9:00 am – 1:00 pm	Journal for Neurochemistry Meeting	Parlor B
1:00 pm – 4:00 pm	ASN Council Meeting	Galleria I
4:30 pm – 6:30 pm	Public Forum — <i>New Directions in Stroke Prevention and Treatment for Children and Adults</i>	Galleria II-III
6:30 pm – 8:00 pm	ASN President's Reception <i>Sponsored by The Office of Vice President for Research, Oregon Health & Science University (OHSU)</i>	Pavilion

SUNDAY, MARCH 12

7:00 am – 6:00 pm	ASN Registration Desk Open	Plaza Foyer
7:00 am – 7:00 pm	Poster Session I — <i>Posters Up for 2 Days</i>	Pavilion
7:00 am – 7:00 pm	Job Postings/Internet Stations— <i>Sponsored by Springer</i>	Parlor C
8:30 am – 9:30 pm	ASN Opening Session <i>Basic Neurochemistry Lecture by Jenny Ting</i>	Grand Ballroom
9:30 am – 5:30 pm	ASN Scientific Sessions	Ballrooms
12:00 pm – 1:00 pm	Lunch with Jenny Ting— <i>Tickets \$20/\$15—Limited Seating</i>	Broadway I
12:00 pm – 1:00 pm	Journal of Neurochem Editors Lunch	Broadway III
2:00 pm – 5:00 pm	ISN/ASN 2007 Committee Meeting	Broadway II
5:30 pm – 7:00 pm	Poster Presentations (Authors Present) <i>Wine & Cheese Reception—Sponsored by Signet Laboratories</i>	Pavilion
7:00 pm – 10:00 pm	Student/Post-Doc Dinner	Alexanders, 23rd Floor

MONDAY, MARCH 13

7:00 am – 6:00 pm	ASN Registration Desk Open	Plaza Foyer
7:00 am – 7:00 pm	Poster Session I	Pavilion
7:00 am – 7:00 pm	Job Postings/Internet Stations— <i>Sponsored by Springer</i>	Parlor C
8:15 am – 6:30 pm	ASN Scientific Sessions <i>50th Journal for Neurochemistry Anniversary Lecture Richard Tsien—Sponsored by International Society for Neurochemistry</i>	Grand I
9:00 pm – 2:00 pm	Guest Tour	Depart from Lobby
12:00 pm – 1:00 pm	Lunch with Richard Tsien— <i>Tickets \$20/\$15—Limited Seating</i>	Broadway II
12:00 pm – 1:00 pm	Women in Neurochemistry (WIN) Luncheon— <i>Tickets \$20/\$10</i>	Broadway III
3:00 pm – 4:30 pm	Poster Presentations (Authors Present)	Pavilion
6:45 pm – 8:30 pm	ASN Business Meeting — All Members Invited	Galleria South

TUESDAY, MARCH 14

7:00 am – 6:00 pm	ASN Registration Desk Open	Plaza Foyer
7:00 am – 7:00 pm	Poster Session II— <i>Posters Up for 2 Days</i>	Pavilion
7:00 am – 7:00 pm	Job Postings/Internet Stations— <i>Sponsored by Springer</i>	Parlor C
8:15 am – 5:30 pm	ASN Scientific Sessions <i>Plenary Lecture by Helmut Kettenmann</i>	Ballrooms
12:00 pm – 1:00 pm	Lunch with Helmut Kettenmann— <i>Tickets \$20/\$15</i>	Grand I
12:00 pm – 1:30 pm	Past President's Luncheon	Broadway I
5:30 pm – 7:00 pm	Poster Presentations (Authors Present) <i>Salsa Reception, Sponsored by ASN/ISN</i>	Broadway III
		Pavilion

WEDNESDAY, MARCH 15

7:00 am – 3:00 pm	ASN Registration Desk Open	Plaza Foyer
7:00 am – 2:30 pm	Poster Session II	Pavilion
7:00 am – 4:00 pm	Job Postings/Internet Stations— <i>Sponsored by Springer</i>	Parlor C
8:00 am – 5:30 pm	ASN Scientific Sessions <i>Plenary Lecture by Freda Miller (4:30 pm – 5:30 pm)</i>	Ballrooms
12:30 pm – 1:30 pm	Lunch with Freda Miller— <i>Tickets \$20/\$15</i>	Grand I
12:30 pm – 2:30 pm	ASN Council Meeting	Broadway III
1:30 pm – 2:30 pm	Poster Presentations (Authors Present)	Broadway I
7:00 pm – 10:00 pm	Closing Party—Bus Departs Lobby at 6:45 pm	Pavilion
		McMenamins

AGENDA-AT-A-GLANCE

SUNDAY

MONDAY

TUESDAY

WEDNESDAY



SUNDAY, MARCH 12, 2006

7:00 am – 6:00 pm	ASN Registration Desk Open Posters Set-up by 7:30 am	Plaza Foyer Pavilion
7:00 am – 7:00 pm	Internet Stations-Sponsored by Springer	Parlor C
7:00 am – 7:00 pm	Job Postings/Placement Information	Parlor C
8:15 am – 8:30 am	General Session Welcome - Wendy Macklin, President Travel Awardees Recognition New Members Recognition	Grand Ballroom
8:30 am – 9:30 am	Keynote Speaker-Basic Neurochemistry Lecture Jenny Ting Unexpected Roles of Inflammatory Cytokines in Neuropathology	Grand Ballroom
9:30 am – 10:00 am	Break-Sponsored by Center for Research on Occupational and Environmental Toxicology (CROET) OHSU	Pavilion

10:00 am – 12:00 pm ASN Scientific Sessions:

GRAND BALLROOM I	GRAND BALLROOM II	
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Symposium S01
The Role of Astrocytes in Disease and Regeneration
 Chairs: A. Messing and M. Brenner

S01-1 Pekny, M.
 Intermediate Filaments -
 The Key to Reactive Gliosis?

S01-2 Itohara, S.
 Astrigluak S100B Midykates
 Neuronal Activity in Vivo

S01-3 Johnson, J.A.
 The NRF2-ARE Pathway in
 Astrocytes: Potential Role in
 Neuroprotection

S01-4 Brenner, M.
 GFAP Mutations in Alexander
 Disease

S01-5 Messing, A.
 Alexander Disease - Atypical Familial
 Forms and Mouse Models

Symposium 2
**Neurobiology of Actin:
 Dynamics, Regulation and
 Transport**
 Chair: G. Gallo

S2-01 Lanier, L.M.
 ARP2/3: From Growth Cone to
 Dendritic Spine

S2-02 Bamberg, J.R.
 ADF/COFILIN-ACTIN Rods in
 Neuroprotection and Degeneration

S2-03 Gomez, T.M.
 RAC1 and RHOA Promote Neurite
 Outgrowth Through Formation and
 Stabilization of Growth Cone Point

S2-04 Baas, P.W.
 Cytoplasmic Dynein Integrates
 Microtubules and Actin During
 Microtubule Transport, Growth Cone
 Turning and Axonal Retraction

12:00 pm – 1:00 pm	Lunch with Speaker—Jenny Ting <i>Purchase Tickets at ASN Registration Desk</i>	Broadway I
12:00 pm – 1:00 pm	Journal of Neurochemistry Editors Lunch	Broadway III



SUNDAY, MARCH 12, 2006

1:00 pm – 3:00 pm

ASN Scientific Sessions:

GALLERIA NORTH	GALLERIA SOUTH	GRAND BALLROOM II
<p>Colloquium 1 CO1 Effects of Neuroinflammation on Gap Junction Communication Chair: T. Kielian</p> <p>C01.1 Naus, C.C. Connexins and Neuroprotection: Minding the Gap</p> <p>C01.2 Spray, D.C. Connexins Regulate Gene Expression: How, Why, and Implications for Neuroinflammation</p> <p>C01.3 Froger, N. Astrocyte Gap Junctions Are A Target for Pro-Inflammatory Cytokines Released From Microglial Cells</p> <p>C01.4 Kielian, T. The Gram-Positive Bacterium S. AUREUS Differentially Modulates Gap Junction Communication in Astrocytes and Microglia</p>	<p>Colloquium 2 CO2 Signaling Molecules Regulating Oligodendrocytes During Development and Pathologic States Chairs: S. Becker-Catania, S. L. Shankar, B. Shafit-Zagardo</p> <p>C02.1 Nielsen, J.A. Identification of a Novel Oligodendrocyte Cell Adhesion Protein Using Gene Expression Profiling</p> <p>C02.2 Wood, T.L. IGF-I Mediated Signaling Pathways and Downstream Targets in Oligodendrocyte Progenitors</p> <p>C02.3 Becker-Catania, S.G. Influence of Axonal Signaling on Oligodendrocyte Behavior</p> <p>C02.4 Macklin, W.B. AKT Regulates Myelination in Oligodendrocytes</p> <p>C02.5 Shafit-Zagardo, B. In Vitro and In Vivo Models to Study the Role of Axl in the CNS</p> <p>C02.6 John, G.R. Interleukin-11: A Survival and Maturation Factor for Human Oligodendrocytes</p>	<p>Colloquium 3 C03 Ischemic Tolerance in the Brain: Deciphering Endogenous Neuroprotective Pathways Induced by Preconditioning Chair: M. P. Stenzel-Poore</p> <p>C03.1 Simon, R.P. Preconditioning Reprograms the Genomic Response to Brain Ischemia</p> <p>C03.2 Gidday, J.M. Vascular Protection in Ischemic Tolerance</p> <p>C03.3 Sharp, F.R. Ischemic Tolerance in Brain: Multiple Pathways With A Single Mechanism VS Multiple Pathways With Multiple Mechanisms</p> <p>C03.4 Stenzel-Poore, M.P. Toll-Like Receptors and Tolerance to Ischemic Injury</p>

3:00 pm – 3:30 pm

Coffe Break-Sponsored by CROET

Pavilion

**Young Latin American Scholar Awards
Congratulations to the 2006 Award Winners!**

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

Veronica Cheli

Gonzalo Sanchez

Cecilia Calatayud

SUNDAY



SUNDAY, MARCH 12, 2006

3:30 pm – 5:30 pm

ASN Scientific Sessions:

GALLERIA NORTH	GRAND BALLROOM I	GRAND BALLROOM II	GALLERIA SOUTH
<p>Workshop 1 W01 PLP and PLP Mutants- What's New? Chair: P. Knapp</p> <p>W01.1 Wight, P.A. Targeted Deletion of the Antisilencer/Enhancer Regulatory Element from Intron 1 of the Mouse Myelin PLP Gene</p> <p>W01.2 Cambi, F. Is PLP Necessary for Brain Development and Function? "The Human Perspective"</p> <p>W01.3 Knapp, P.E. Correction of the Abnormal Phenotype of Jimpby Oligodendrocytes by Silencing the Mutant Proteolipid Protein</p> <p>W01.4 Odile Boespflug-Tanguy New Targets for PLP1 Abnormalities in Pelizaeus Merzbacher Disease</p> <p>W01.5 Skoff, R. Myelin Proteolipid Protein Mutations Cause Global Brain Mitochondrial Dysfunction</p> <p>W01.6 Ikenaka, K. Causes for the Arrested Oligodendrocyte Development in Demyelinating Diseases</p>	<p>Colloquium 4 C04 RNA Interference in Neurodegenerative Disorders: From Discovery to Therapeutics Chairs: P. Desplats and E. A. Thomas</p> <p>C04.1 Lu, B. Modeling Parkinson's Disease Using RNAI</p> <p>C04.2 Harper, S.Q. RNAI-Mediated Gene Therapy for Poly-Glutamine Repeat Disorders</p> <p>C04.3 Xie, Z. RNAI Silencing of APP Adaptor Proteins Attenuates A_β Levels Via Differential Effects on APP Processing</p> <p>C04.4 Xu, Z. Application of RNAI in Understanding and Treatment of Neurodegenerative Diseases</p>	<p>Colloquium 5 C05 The Th1/Th2 Paradox in Neural Injury and Disease Chairs: K. J. Jones and V. M. Sanders</p> <p>C05.1 Sanders, V.M. TH1/TH2 Cell Primer</p> <p>C05.2 Jones, K.J. TH1/TH2 Cell Balance in Neural Repair After Peripheral Nerve Injury</p> <p>C05.3 Popovich, P.G. TH1-Biased Immunity After Spinal Cord Injury: Implications for Neurodegeneration and Host Defense</p> <p>C05.4 Karpus, W.J. Chemokine and Chemokine Receptor Regulation of Autoimmune Encephalomyelitis</p>	<p>Oral Presentations 1 OP01 Mechanisms of Microglia-Mediated Damage in CNS Disorders Chairs: R. Jones and M. Polanczyk</p> <p>OP1.1 Milner, R. Microglial Activation by Fibronectin and Vitronectin During Demyelinating Disease</p> <p>OP1.2 Roy, A. Nitric Oxide Induces the Expression of CD11B in Microglia</p> <p>OP1.3 Xu, J. PPAR-_γ Agonists Suppress the Production of IL-12/IL-23 by Activated Microglia and Astrocytes</p> <p>OP1.4 Streit, W.J. Senescence of Microglia in the Aging Brain</p> <p>OP1.5 McDaniel, E.E. In Vitro Modeling of Spinal Cord Injury Activated Macrophages</p> <p>OP1.6 Cardona, A.E. The Control of Microglial Neurotoxicity by CX3CR1</p> <p>OP1.7 Brahmachari, S. Sodium Benzoate Modifies T Cells at Multiple Steps and Inhibits Adoptive Transfer of Experimental Allergic Encephalomyelitis</p>

5:30 pm – 7:00 pm

Poster Presentation I & Exhibitors
Authors Present 5:30 to 6:30

Pavilion

Wine & Cheese Reception-Sponsored by Signet Laboratories

7:00 pm – 10:00 pm

Student/Post-Doc Party
Ticket Required

Alexanders
23rd Floor Hilton



MONDAY, MARCH 13, 2006

7:00 am – 6:00 pm	ASN Registration Desk Open	Plaza Foyer
7:00 am – 7:00 pm	Internet Stations-Sponsored by Springer	Parlor C
7:00 am – 7:00 pm	Job Postings/Placement Information	Parlor C
8:00 am – 8:15 am	General Session Marian Kies Award Presentation Winner - Eric Anthony Sribnick	Grand Ballroom
8:15 am – 9:30 am	The Journal of Neurochemistry 50th Anniversary Lecture Richard Tsien, Ph.D. Insights into the Secret Life of Small Nerve Terminals	Grand Ballroom
9:30 am – 10:00 am	Break-Sponsored by Health Sciences Research Institute-UC Riverside	Pavilion
10:00 am – 12:00 pm	ASN Scientific Sessions:	

GRAND BALLROOM I	GRAND BALLROOM II	
<p>Symposium S03 Axon Growth in a Reactive Gial Neighborhood: Negotiating the Environment after Spinal Cord Injury Chair: L. B. Jakeman</p> <p>S03-1 Jakeman, L.B. Variations in the Cellular Response and Recovery After Spinal Cord Injury in the Mouse</p> <p>S03-2 Caggiano, A.O. Chondroitin Sulfate Proteoglycans in a Contusion Spinal Cord Injury</p> <p>S03-3 Snow, D.M. Astrocyte-Secreted Chondroitinase Mitigates Axon Inhibition By Chondroitin Sulfate Proteoglycans</p> <p>S03-4 Condic, M.L. Neuronal Adaptation to Inhibitory and Collapsing Factors</p>	<p>Symposium S04 Alpha-Synuclein's Function in Brain Physiology Chair: E. Murphy</p> <p>S04-1 Scarlata, S.F. The Role of Alpha-Synuclein in Phosphatidylinositol Signal Transduction</p> <p>S04-2 George, J.G. Synuclein as a Mediator Between Synaptic Membrane and Cytoskeleton</p> <p>S04-3 Ellis, C.E. Mitochondrial Lipid Abnormality and Electron Transport Chain Impairment in Mice Lacking Alpha-Synuclein</p> <p>S04-4 Murphy, E.J. Alpha-Synuclein Modulates Brain Fatty Acid Metabolism</p>	

12:00 pm – 1:00 pm	Lunch with Speaker—Richard Tsien Purchase Tickets at ASN Registration Desk	Broadway II
12:00 pm – 1:00 pm	WIN Luncheon-Ticket Required Purchase Ticket at ASN Registration Desk	Broadway III

MONDAY



MONDAY, MARCH 13, 2006

1:00 pm – 3:00 pm

ASN Scientific Sessions:

GRAND BALLROOM I

Colloquium 6

C06 The Blood Brain Barrier and its Role in Immune Privilege in the CNS in Health and Disease

Chairs: Z. Fabry and
J. Pachter

C06.1 Pachter, J.S.
Heterogeneity of the CNS Microvasculature

C06.2 de Vries, E.
Reactive Oxygen Species and Pathological Events in Multiple Sclerosis

C06.3 Zozulya, A.L.
Dendritic Cell Migration Across the Blood-Brain Barrier is Mediated VIA Tight Junctions in MMP-Dependent Way

C06.4 Prat, A.
Blood-Brain Barrier Transmigration of Human Monocytes Induces Their Differentiation into Dendritic Cells

GRAND BALLROOM II

Colloquium 7

C07 Mechanisms of Endocytic Trafficking in Health and Neurodegenerative Disease

Chair: L. Li

C07.1 Horazdovsky, B.F.
RAB5 Guanine Nucleotide Exchange Factors: Regulators of Receptor Trafficking From Yeast to Neurons

C07.2 Wandinger-Ness, A.
Altered RAB7 GTPASE Function in Charcot-Marie-Tooth Disease

C07.3 Cataldo, A.M.
Endosome Function and Pathology in Alzheimer's Disease

C07.4 Li, L.
The Endosomal Trafficking Machinery and its Link to Neurodegenerative Disease

GALLERIA SOUTH

Colloquium 8

C08 Understanding Glioblastoma and Therapeutic Approaches

Chair: N. Banik

C08.1 Neuwelt, E.A.
BBB and Delivery in Malignant Brain Tumor

C08.2 Frankel, B.
Understanding Glioblastoma and Therapeutic Approaches

C08.3 Rao, J.S.
RNAI-Mediated Downregulation of Proteases and UPAR in Xenograft Glioma Cells Inhibits Invasion Angiogenesis and Tumor Growth

3:00 pm – 4:30 pm

Poster Presentation I & Exhibitors
Authors present 3:00-4:00

Pavilion

Break-Sponsored by Health Sciences Research Institute-UC Riverside

Pavilion

4:30 pm – 6:30 pm

ASN Scientific Sessions:

GRAND BALLROOM II

Workshop 2

W02 A New Look at the Neurochemistry of the Mitochondrion

Chairs: R. Butterworth and
M. McKenna

W02.1 McKenna, M.C.
Mitochondrial Heterogeneity in Brain

W02.2 Heales, S.
Brain Mitochondrial Dysfunction- The Critical Event in Neurodegeneration?

GRAND BALLROOM I

Colloquium 9

C09 Myelin Genes and Autoimmunity

Chair: A. T. Campagnoni

C09.1 Linington, C.
A Role For Myelin and Non-Myelin Autoantibodies in the Pathogenesis of Demyelinating Disease

C09.2 Kuchroo, V.K.
Autoimmune T Cell Response to Myelin Antigens: Building Better Animal Models for MS

GALLERIA NORTH

Oral Presentations 2

OP2 Apolipoprotein D in Mechanisms of Neurodegeneration

Chairs: S. Patel and M. Ganfornina

OP2.1 Ong, W.Y.
Neuroprotective Effect of APOD on Hippocampal Neurons After Kainic Acid-Induced Injury

OP2.2 Ghoshal, S.
Apolipoprotein D Protects Against H2O2-Induced Oxidative Stress

Continued

MONDAY



MONDAY, MARCH 13, 2006

4:30 pm – 6:30 pm

ASN Scientific Sessions:

Continued

GRAND BALLROOM II	GRAND BALLROOM I	GALLERIA NORTH
<p>W02.3 Fiskum, G. Differential Responses of Astrocyte and Neuronal Mitochondria to Calcium and Oxidative Stress</p> <p>W02.4 Beart, P.M. Proapoptotic Mitochondrial Signaling: The Hows and Whens</p> <p>W02.5 Butterworth, R.F. The Mitochondrial Benzodiazepine Receptor: Role in Hyperammonemic Encephalopathies</p> <p>W02.6 Schousboe, A. Metabolic and Mitochondrial Heterogeneity in Astrocytes at the Single Cell Level: What Are the Functional Implications</p>	<p>C09.3 Goverman, J. Tolerance Induction of MBP-Specific T Cells</p> <p>C09.4 Feng, J.M. GOLLI Protein Negatively Regulates Store-Depletion-Induced Calcium Influx in T Cells</p>	<p>P2.3 Sanchez, D. A Genetic Analysis of Apolipoprotein D in Mouse Uncovers Its Role in the Control of the Redox Balance and Neurodegeneration</p> <p>OP2.4 Muffat, J.A. Overexpression of the Drosophila Homolog of Apolipoprotein D Leads to Increased Stress Resistance and Extended Lifespan</p> <p>OP2.5 Ganfornina, M.D. Glial Lazarillo, A Homolog of Apolipoprotein D in Flies, Confers Protection in Situations of Unbalanced Oxidative Stress</p> <p>OP2.7 Thomas, E.A. Apolipoprotein D Knock-Out Mice Exhibit Hypersensitivity to 3-Nitropropionic Acid-Induced Striatal Lesions</p> <p>OP2.8 Blanchette-Mackie, E.J. Apolipoprotein D (-/-) Mouse Fibroblasts: Faulty Regulation of Low Density Lipoprotein Metabolism</p>

6:45 pm – 8:00 pm

ASN Business Meeting
All Members Invited

Galleria South

**The 21st Joint ISN-ASN Meeting
Cancun, Mexico – August 19 – 24, 2007**

The 21st ISN 2007 meeting will be held in Cancún, Mexico, in conjunction with the ASN. The congress venue is the Cancún Center, which offers all facilities and is located in the heart of the tourist zone of Cancún and at walking distance from hotels of several categories.

Cancún is a beautiful and most geographically suitable place to congregate scientists from all over the world. It is located on the Caribbean Sea, 150 km South of the NorthEast corner of the Yucatán Peninsula, in Mexico, and it is well communicated with most continents by direct flights from many cities around the world. Cancún is famous for its white powder beaches, turquoise sea, scuba diving and snorkeling sites, all of which is now very rapidly recovering from the Wilma hurricane, so that surely for 2007 they will be in an even better condition than before Wilma. Nearby, natural sea parks such as Xel-Ha and Xcaret, and many interesting “cenotes” (natural deposits of fresh water, often inside caves) offer additional attractions. Also, for those interested in prehispanic architecture, several important archeological Mayan cities such as Tulum, Coba and Chichen-Itza, are located within 80-200 km from Cancún. Pre and postcongress tours to these sites will be offered.

Information on the organization and other aspects of the Cancún Meeting can be seen in the web page at the following address: www.isn-asn2007cancun.org.mx The local organizing committee invites you to visit this page.

MONDAY



TUESDAY, MARCH 14, 2006

7:00 am – 6:00 pm	ASN Registration Desk Open	Plaza Foyer
7:00 am – 7:00 pm	Internet Stations-Sponsored by Springer	Parlor C
7:00 am – 7:00 pm	Job Postings/Placement Information	Parlor C
8:00 am – 8:15 am	General Session Jordi Folch-Pi Award Presentation Winner - Tammy Kielian	Grand Ballroom
8:15 am – 9:30 am	Keynote Speaker Helmut Kettenmann, Ph.D Mechanisms of Neuron Glia Interactions	Grand Ballroom
9:30 am – 10:00 am	Break-Sponsored by The Division of Biomedical Science-UC Riverside	Pavilion
10:00 am – 12:00 pm	ASN Scientific Sessions:	

GRAND BALLROOM I

Symposium S05
Molecular and Cellular
Mechanisms of Migration During
CNS Myelination and
Remyelination
Chairs: A. Baron-Van Evercooren
and D. McTigue

S05-1 Richardson, W.D.
Complex Origins of Oligodendrocytes
in the Forebrain

S05-2 Miller, R.H.
Environmental Regulation of
Oligodendrocyte Precursor
Development

S05-3 Baron-Van Evercooren, A.
Molecular Control of Neural Stem
Cell Mobilization in the Demyelinated
CNS

S05-4 McTigue, D.M.
Oligodendrogenesis in an NG2-
Reactive Zone After Spinal Cord
Injury

GRAND BALLROOM II

Symposium S06
The Jordi Folch-Pi Symposium
Intrinsic and Extrinsic
Determinants of Neuronal
Polarization
Chair: M. Rasband

S06-1 Rasband, M.N.
Mechanisms of Ion Channel
Localization in Axons

S06-2 Misonou, H.
Dynamic Regulation of Neuronal
Potassium Channel KV2.1

S06-3 Stankewich, M.C.
Microdomain Organization in the
Mammalian Brain: A Role for
Spectrin/Ankyrin

S06-4 El-Husseini, A.
Protein Traffic at Nascent Synapses

12:00 pm – 1:00 pm	Lunch with Speaker—Helmut Kettenmann <i>Purchase Tickets at ASN Registration Desk</i>	Broadway I
12:00 pm – 1:00 pm	Past President's Lunch	Broadway III

TUESDAY



TUESDAY, MARCH 14, 2006

1:00 pm – 3:00 pm

Concurrent Sessions:

GALLERIA NORTH	GRAND BALLROOM I	GRAND BALLROOM II
<p>Colloquium C010 Diversity of Microglia Signal Transduction Chairs: T. Moeller and N. Stella</p> <p>C010-1 Benveniste, E.N. Cross-Talk Between the Jak-Stat and NF-κB Signaling Pathways for Regulation of CD40 Expression in Macrophages/Microglia</p> <p>C010-2 Landreth, G. Microglial Activation by Fibrillar Abeta Through a Multireceptor Complex</p> <p>C010-3 Möller, T. Activation of Microglial Cells by Thrombin: You Get What You Pay For</p> <p>C010-4 Stella, N. Endocannabinoid Production by Microglia</p> <p>C010-5 Tsirka, S.E. Tissue Plasminogen Activator: An Activator of Microglia</p>	<p>Colloquium C011 Excitotoxicity and Neurologic Disease Chair: A. Hazell</p> <p>C011-1 Danbolt, N.C. Glutamate Transporters Around Synapses</p> <p>C011-2 Dodd, P.R. EAAT2 Splice Variants in Alzheimer Disease</p> <p>C011-3 Wilson, J.M. Evidence for an Excitotoxicity in Murine Model of ALS-PDC</p> <p>C011-4 Maragakis, N.J. Neuroprotective Role of Neural Stem Cells Following Excitotoxic Injury</p>	<p>Colloquium C012 Manganese in CNS Neurotoxicity and Idiopathic Parkinson's Disease Chairs: M. Aschner and R. Nass</p> <p>C012-1 Nass, R. Manganese-Induced Dopamine Neurodegeneration in <i>C. Elegans</i>: Pharmacogenetic Analysis in a Novel Model of Manganism</p> <p>C012-2 Aschner, M. Dietary Iron Modulates Manganese Neurotoxicity</p> <p>C012-3 Schneider, J.S. Effects of Chronic Manganese Exposure on Cognitive and Motor Functioning in Nonhuman Primates</p> <p>C012-4 Guilarte, T.R. Neuroimaging and Neuropathological Changes in the Non-Human Primate Brain by Chronic MN Exposure</p> <p>C012-5 Dorman, D.C. Subchronic Manganese Sulfate Inhalation Does Not Result in Altered Brain Neurotransmitter Concentrations in Rhesus Monkeys</p>

3:00 pm – 3:30 pm

Coffee Break-Sponsored by The Division of Biomedical Science-UC Riverside

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TUESDAY



TUESDAY, MARCH 14, 2006

3:30 pm – 5:30 pm

Concurrent Sessions:

GALLERIA NORTH	GRAND BALLROOM II	GRAND BALLROOM I	GALLERIA SOUTH
<p>Workshop 3 W03 Are Astrocytes Neuronal Stem Cells? Chair: S. Levison</p> <p>W03.1 Roundtable Discussion McCarthy, K.D. Properties and Functions of Astrocytes</p> <p>Laywell, E.D. Neural Stem Cells in the Brain Share Properties with Astrocytes</p> <p>e Vellis, J. Cardinal Features of Stem Cells</p>	<p>Colloquium 13 C013 In Vivo Imaging of CNS Pathology Chairs: R. Armstrong and S. Song</p> <p>C013.1 Song, S. Accurate Diagnosis of White Matter Pathology: A Fact or Fiction</p> <p>C013.2 Wang, Y.M. Molecular Imaging of Myelin Pathology</p> <p>C013.3 Poduslo, J.F. MRI of Individual Amyloid Plaques in Alzheimer's Disease: Development of Contrast Agents and Imaging Methodology</p> <p>C013.4 Wyss-Coray, T. Noninvasive Bioluminescence Imaging of Neural Injury and Inflammation in Mouse Models</p>	<p>Colloquium 14 C014 Chemokines and Viral Infections of the CNS Chair: T. Lane</p> <p>C014.1 Lane, T.E. Expression of CXCL10 From the MHV Genome Results in Protection From Viral-Induced CNS Disease</p> <p>C014.2 Thomsen, A.R. Chemokine Regulation of CD8+ T Cell Mediated Inflammation in the Virus-Infected CNS</p> <p>C014.3 Glass, W.G. CCR5 Saves Lives: The Protective Role of CCR5 During West Nile Virus Infection</p> <p>C014.4 Carr, D.J. The Role of CXCR3 in the Host Immune Response to the Neurovirulent Pathogen, Herpes Simplex Virus Type 1</p>	<p>Oral Presentations 3 OP3 Models and Probes for Assessing Disease Chairs: J. Harry and S. McGuire</p> <p>OP3.1 Loftis, J.M. Administration of Pegylated Interferon-γ Does not Induce Sickness Behavior in Lewis Rats</p> <p>OP3.2 O'Banion, M.K. Inducible Brain Expression of IL-1 in a New Transgenic Mouse Model Results in Glial Activation and Recruitment of Leukocytes</p> <p>OP3.3 Niciu, M.J. Mutant ATP7A Expression and Impaired Cuproenzyme Activity in a Murine Model of Menkes Disease</p> <p>OP3.4 Dasgupta, S. Gemfibrozil Switches Myelin Basic Protein Primed T Cells from TH1 to TH2 Subtype and Ameliorates EAE Independent of PPAR-A</p> <p>OP3.5 Usuki, S. Cross-Reactive Antibodies to Gangliosides and Lipid a Following Infection of Chickens by Campylobacter Jejuni</p> <p>OP3.6 Ruggiero, B.L. Characterization of an Activity Recognizing the AUUCU Repeat Sequence Associated with SCA-10</p> <p>OP3.7 Peña, L.A. Development of Cytokine Receptor Peptide-Imaging Probes in the EAE Model of Multiple Sclerosis</p>

5:30 pm – 7:00 pm

Poster Presentation II & Exhibitors

Authors present 5:30-6:30 pm

Salsa Reception-Sponsored by ISN/ASN

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Pavilion



WEDNESDAY, MARCH 15, 2006

7:00 am – 3:00 pm	ASN Registration Desk Open	Plaza Foyer
7:00 am – 4:00 pm	Internet Stations-Sponsored by Springer	Parlor C
7:00 am – 4:00 pm	Job Postings/Placement Information	Parlor C
8:00 am – 10:00 am	ASN Scientific Sessions:	

GRAND BALLROOM I

Symposium S07
Role of the neurovascular Unit in Neurological Diseases

Chair: S. Back and L. Sherman

S07-1 Nedergaard, T.
Roles of Astrocytes in the Neurovascular Unit

S07-2 Lo, E.H.
Neurovascular Coupling in Health and Disease

S07-3 Sherman, L.S.
Hyaluronan Regulates Astrocyte Proliferation and Inhibits Remyelination in Demyelinating Lesions

S07-4 Riddle, A.
Heterogeneity in Oligodendrocyte Maturation and not Blood Flow Predicts Fetal Ovine Periventricular White Matter Damage (PWMI)

GRAND BALLROOM II

Symposium S08
Glial Neuronal Bi-Directional Signaling

Chair: V. Parpura

S08-1 Fields, R.D.
Neuronal Communication Beyond the Synapse and With Non-Neuronal Cells

S08-2 Hrabetova, S.
Glia Processes Form Dead-Space Microdomains Hindering Diffusion in Brain Extracellular Space

S08-3 Parpura, V.
Spatio-Temporal Characteristics of Exocytosis in Astrocytes

S04-4 Skatchkov, S.N.
Neuronal Network Regulation in CA1 Hippocampus: Role of Glial Polyamines and Hemichannels

10:00 am – 10:30 am	Break-Sponsored by Dept. of Neurology, OHSU	Pavilion
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Future ASN/ISN Meetings

- ASN/ISN Annual Meeting — Cancun, Mexico, August 19—24, 2007
 - 39th ASN Annual Meeting — San Antonio, TX, March 1—5, 2008
 - 40th ASN Annual Meeting — TBD, 2009
 - 41st ASN Annual Meeting — TBD, 2010
 - 42nd ASN Annual Meeting — St. Louis, MO, March 19—23, 2011
- Check Website for Program Updates: www.ASNeurochem.org



WEDNESDAY, MARCH 15, 2006

10:30 am – 12:30 pm

ASN Scientific Sessions:

GALLERIA NORTH	GRAND BALLROOM I	GRAND BALLROOM II
<p>Colloquium C015 Novel Neuroprotective Functions of the Stress Response Chair: D. Feinstein</p> <p>C015-1 Sharp, F.R. Apoptosis Regulation by Heat Shock Proteins (HSP70, HSP27)</p> <p>C015-2 Tytell, M. HSP70 - It's Not Just an Intracellular Chaperone</p> <p>C015-3 Dello Russo, C. Neuroprotective Actions of HSP90 Inhibitors</p> <p>C015-4 Giffard, R.G. Wild Type and Folding Deficient Chaperones Protect From Ischemic Injury in Vivo and in Vitro</p>	<p>Colloquium C016 The Mystery of the Relapse in MS-the Interaction of the Peripheral and Central Immune System Chair: C. Kaiser</p> <p>C016-1 Cunningham, C. Interaction Between Systemic Inflammation and Brain Inflammation in Chronic Neurodegeneration</p> <p>C016-2 Prat, A. Molecular Mechanisms of T Cell Migration Across the Blood-Brain Barrier</p> <p>C016-3 Becher, B. Antigen Presentation During Autoimmune CNS Inflammation: Killers, Victims and the Snitch Who Plays Them Both!</p> <p>C016-4 Owens, T. Glial Cells as Inducers of Immune Cell Entry and Activation in the Brain</p>	<p>Colloquium C017 Axonal Transport Defects in Neurodegenerative Diseases Chairs: G. Morfini and G. Pigino</p> <p>C017-1 Nass, R. Manganese-Induced Dopamine Neurodegeneration in C. Elegans: Pharmacogenetic Analysis in a Novel Model of Manganism</p> <p>C017-1 Pigino, G. Axonal Transport Defects in Neurodegenerative Diseases</p> <p>C017-2 Lazarov, O. Resenilin-1 Regulates Trafficking of Amyloid Precursor Protein and Selected Membrane Proteins in Vivo</p> <p>C017-3 Littleton, J.T. Axonal Transport Defects in a Drosophila Model of Huntington's Disease</p> <p>C017-4 Binder, L. Neurofibrillary Tangles as Windows Into Alzheimer's Disease</p> <p>C017-5 Morfini, G. Fast Axonal Transport Alterations in Parkinson's Disease</p>

12:30 pm – 1:30 pm Lunch with Speaker—Freda Miller Broadway III
Purchase Tickets at ASN Registration Desk

12:30 pm – 2:00 pm ASN Council Meeting Broadway I

1:30 pm – 2:30 pm Poster Presentation II & Exhibitors Pavilion
Authors present 1:30-2:30 pm

Break-Sponsored by Dept. of Neurology, OHSU

WEDNESDAY



WEDNESDAY, MARCH 15, 2006

2:30 am – 4:30 pm

ASN Scientific Sessions:

GALLERIA NORTH	GRAND BALLROOM II	GRAND BALLROOM I	GALLERIA SOUTH
<p>Workshop 4 W04 Tips for Writing a Fundable Grant Chair: G. DeVries</p> <p>W04-1 DeVries, G.H. Tips For Writing A Fundable Proposal</p>	<p>Oral Presentaitons 4 OP4: Neuronal Cell Biology Chairs: P. Baas and T. Gomez</p> <p>OP4-1 Qiang, L. TAU Regulates the Severing of Microtubules in the Axon by Katanin</p> <p>OP4-2 Jones, S.L. Microtubule-Dependent Mechanism of Axon Regeneration</p> <p>OP4-3 Robles, E. Focal Adhesion Kinase Regulates Neurite Growth In Vitro and In Vivo</p> <p>OP4-4 Pollema, S.L. Expanded Androgen Receptor and Huntingtin Inhibit Fast Axonal Transport Through Activation of SAPK</p> <p>OP4-5 LaPointe, N.E. TAU Filaments Inhibit Kinesin-Dependent Transport in Isolated Squid Axoplasm</p> <p>OP4-6 Reynolds, M.R. Site-Specific Nitration Differentially Influences TAU Assembly In Vitro</p>	<p>Oral Presentaitons 5 OP5: Neurotoxicology and Neurodegeneration Chairs: M. Sabri and P. Spencer</p> <p>OP5-1 Kodavanti, P.S. Brain Aconitase Activity in Spontaneously Hypertensive (SHR) and Wistar-Kyoto (WKY) Rats</p> <p>OP5-2 Seth, P.K. Primary Culture of Brain Cells for Studies on Cell Specific Vulnerability of Brain</p> <p>OP5-3 Tshala-Katumbay, D.X. The Neurobiology of Konzo, A Toxic Upper Motor Neuron Disease Associated With Cyanogenic Exposure</p> <p>OP5-4 Khairova, R.A. C-AMP, Directly Activating Glial NMDA Receptors, Stimulates No Signaling That Blocks Action Potential Generation in Nerve Fibers</p> <p>OP5-5 Felitsyn, N. Environmental Contaminant Dichloroacetate Causes Reversible Demyelination In Vitro</p> <p>OP5-6 Kretzschmar, D. Swiss Cheese/NTE, A Gene Required for Neuronal Integrity and Lipid Homeostasis</p>	<p>Oral Presentations Late Breaking Abstracts Speakers and Abstracts Provided at ASN Desk Co-Chairs: R. Vemuganti and M. Stokely</p>

4:30 pm – 5:30 pm

Keynote Speaker
PL-4 Freda Miller, Ph.D
Neural Precursor Cells: Novel Signals and Sources

Grand Ballroom I

7:00 pm – 10:00 pm

ASN Closing Party
Transportation Departs Lobby at 6:45 pm

McMenimuns Restaurant

WEDNESDAY



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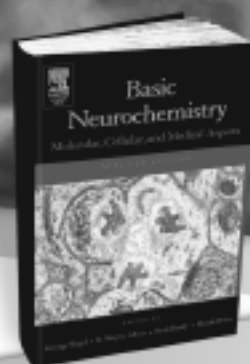
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AUTHORS PRESENT

5:30 pm–6:30 pm SUNDAY

3:00 pm–4:00 pm MONDAY

PAVILION

PSM01-1 Dwivedi, Y.
Decreased cell proliferation in hippocampus of depressed rats and its reversal by antidepressants

PSM01-2 Pedraza, C.E.
Production of high yield oligodendrocyte precursors from embryonic neurospheres

PSM01-3 Yanagisawa, M.
Characterization of carbohydrate antigens in mouse embryonic neural precursor cells

PSM01-4 Weltzin, M.M.
Arousal from Hibernation Alters Contextual Learning and Memory

PSM01-5 Shine, H.D.
Over-Expression of Active Akt Regulates Neuronal Morphology

PSM01-6 Puntambekar, S.J.
Polyamines: potential regulators of CNS immune privilege and regeneration?

PSM01-7 Dobson, N.R.
Musashi1 Inhibits Oligodendrocyte Progenitor Differentiation

PSM01-8 Matsumoto, S.
Brg1 represses neuronal differentiation by neural stem cells

PSM01-9 Tiwari-Woodruff, S.K.
Treatment with an Estrogen Receptor a Ligand is Both Anti-inflammatory and Neuroprotective in Experimental Autoimmune Encephalomye

PSM01-10 Rossman, I.
Extracellular growth factors interact with *Engrailed2 (En2)*, an autism-associated gene, to control cerebellar development

PSM01-11 WITHDRAWN
Characteristics of radial glia cells in the Developing Human Brain

PSM01-12 Mullen, C.C.
The Molecular Signature of Primary Microglia Challenged with Distinct Forms of Amyloid Beta

PSM02-1 Vatassery, G.T.
Modulation of vitamin E (alpha toco-pherol) in brain by apolipoprotein E

PSM02-2 Lajtha, A.
Neurotransmitter Changes by Drugs Used in Alzheimer Therapy

PSM02-3 Walton, H.S.
Real-time quantitative RT-PCR analysis of EAAT2 splice variants

PSM02-4 Gibson, G.E.
Select antioxidants modify endoplasmic reticulum calcium stores, capacitative calcium entry and mitochondrial calcium export

PSM02-5 Chen, C.
Visualization of APP dimerization and APP/Notch heterodimerization in living cells using Bimolecular Fluorescence Complementation

PSM02-6 Chauhan, N.B.
Cholinergic immunolesioning produced tangle-like inclusions in TgCRND8 Brain

PSM02-7 Vasilevko, V.
Affects of peripheral pro- and anti-inflammatory agents on glial activation and clearance of amyloid in transgenic models of AD

PSM02-8 Petrushina, I.
Mannan-Ab28 induced an anti-inflammatory anti-Ab immune response in APP/Tg mice and increased cerebrovascular microhemorrhages

PSM02-9 Copenhaver, P.F.
The insect homologue of the Amyloid Precursor Protein may regulate neuronal migration in the developing nervous system

PSM03-1 Zhuravliova, E.
Haloperidol induces neurotoxicity by the NMDA receptor downstream signalling pathway, alternative from glutamate excitotoxicity

PSM03-2 Sharma, R.
Minor Role For Caspase-12 In Animal Models Of Neurodegenerative Disease

PSM03-3 Fiszer de Plazas, S.
Temporal correlation between cellular death and activation of apoptotic pathways in a prenatal acute hypoxia model

PSM03-4 Chueh, S.H.
Dual effect of thapsigargin on cell death and cell survival in porcine aortic smooth muscle cells

PSM03-5 Giuffrida Stella, A.M.
Protective role of carnosine after iNOS induction by LPS and INF-gamma treatment in primary rat astroglial cell cultures

PSM03-6 Sobocki, T.
Regulating Aminophospholipid Translocase Activity with Phosphorylation Site-Mutant P-type ATPases

PSM03-7 Hemdan, S.
Deficient peroxide detoxification underlies the susceptibility of oligodendrocyte progenitors to DA-induced cell death

PSM03-8 Dodd, P.R.
Improved hypoxia tolerance after hypoxic preconditioning may be mediated by increasing GABA A receptor number.

PSM03-9 Jayman, F.A.
Expression and Functional Role of Mouse ATPase II

PSM03-10 Saqr, H.E.
Ganglioside GD3 promotes apoptosis and sensitizes GRD2 glioblastoma cells to radiation

PSM03-11 Karmakar, S.
5-Aminolevulinic acid-based photodynamic therapy activates proteolytic pathways for apoptosis in human glioblastoma U87MG cells

Continued

POSTERS

SUNDAY

MONDAY

AUTHORS PRESENT

5:30 pm–6:30 pm SUNDAY 3:00 pm–4:00 pm MONDAY

PAVILION

Continued

PSM04-1 Zeng, G.
Disruption of WNK1, a novel protein kinase, suppresses proliferation, migration and differentiation of neural progenitor cells

PSM04-2 Baker, B.J.
Oncostatin M induces SOCS-3 via STAT-3 Activation in Glial Cells

PSM04-3 Yi, J.
Heat shock protein 27 is associated with maintenance of the GLAST via a protein kinase C delta mechanism in cultured astrocytes

PSM04-4 Muja, N.
Micro RNA Expression in Developing Oligodendrocytes

PSM04-5 Morello, J.A.
Transcriptional Regulation of GFAP: Effects of TATA Box Mutation

PSM04-6 Su, W.
Loss of CD44 Results in Learning And Memory Deficits Associated with Aberrant Regulation Of HuB In Hippocampal Neurons

PSM04-7 Perrone-Bizzozero, N.I.
Schizophrenia-like gene expression profile in rats chronically exposed to phencyclidine.

PSM04-8 Hewett, J.A.
The 3' untranslated region of cyclooxygenase-2 mRNA controls expression in cortical neurons

PSM04-9 Bullock, W.M.
Gene expression alterations in the cerebellum of patients with schizophrenia revealed by DNA microarray analysis

PSM04-10 Royland, J.E.
Changes in Neurotransmitter Gene Expression in the Aging Retina

PSM04-11 Velho, T.A.
MAP Kinase activation and adrenergic modulation of song-induced gene expression

PSM04-12 Coate, T.M.
Eph-ephrin interactions regulate midline crossing by a migratory population of embryonic neurons

PSM04-13 Zaheer, A.
GMF regulates cytokine/chemokine expression in CNS of mice with EAE.

PSM04-14 Syapin, P.J.
Requirement for the Oct DNA motif for transcriptional activation of the inducible nitric oxide synthase promoter in rat C6 glia

PSM04-15 Broughton, S.
Insulin-Like Growth Factor Signaling In Neural Stem Cell Commitment To The Oligodendrocyte (OL) Lineage

PSM05-1 Carson, M.J.
Differential Expression of the Triggering Receptors Expressed on Myeloid cells (TREM) family of receptors by CNS Microglia and Pe

PSM05-2 Melchior, B.
A putative neuroprotective role for TREM-2

PSM05-3 Lee, H.
Double-stranded RNA induces inflammatory gene expression in Schwann cells and the degeneration of nerve axons

PSM05-4 Bruchas, M.R.
Kappa Opioid Receptor Activation of p38 MAPK in Primary Striatal and Spinal Cord Astrocytes: Signaling and Downstream Effects

PSM05-5 Sexton, M.
Development of molecular imaging agents capable of assessing PBR expression in vivo.

PSM05-6 Stokely, M.E.
Histochemical assays to determine functionality of optic nerve in a mog-induced model of optic neuritis

PSM05-7 Sun, G.Y.
Tauro-GM2 and GM2 inhibit LPS-stimulated nitric oxide production in microglial cells

PSM05-8 Tawfik, V.L.
Induction of Astrocyte Differentiation by Propentofylline Increases Glutamate Transporter Expression In Vitro

PSM05-9 LaCroix-Fralish, M.L.
Progesterone regulates Neuregulin 1 expression: implications for sex-specific pain modulation

PSM05-10 Esen, N.
Central role for MyD88 in the responses of microglia to pathogen-associated molecular patterns (PAMPs)

PSM05-11 Liu, S.
Minocycline modulates astrocyte and microglial activation in response to *S. aureus*

PSM05-12 Syed, M.
TNF regulates Toll-like receptor 2 (TLR2) expression in microglia

PSM05-13 Choi, S.H.
Cyclooxygenase-1 deficient mice show decreased inflammatory markers after intracerebroventricular injection of lipopolysaccharide

PSM05-14 Lin, H.W.
Ciliary Neurotrophic Factor, But Not IL-6, Induces Cyclooxygenase 2 and Prostaglandin E2 Production in Murine Microglia

PSM05-15 Konat, G.W.
Negative feedback regulation of TLR signaling in astrocytes

PSM05-16 Weinstein, J.R.
Endotoxin, a Potent Microglial Activator, is a Frequent and Significant Contaminant in Preparations of Microglia-Activating Factor

PSM05-17 Yoshino, J.E.
Effects of Proteasome Inhibitors on Nitric Oxide Production

PSM05-18 Noda, M.
Kinin-induced microglial migration and anti-inflammatory effects in the central nervous system

PSM05-19 Szele, F.G.
Adult Subventricular Zone Microglia Are Resistant To Activation After Brain Injury

Continued

Continued

PAVILION

PSM05-20 Neuwelt, E.A.
In Vivo Leukocyte Iron Labeling with Intravenous Ferumoxides and Protamine Sulfate for Cellular Magnetic Resonance Imaging

PSM05-21 Wang, C.
Antigen-Specific Treatment of EAE Reverses Myelin and Axonal Injury

PSM05-22 Brenner, T.
Anti-Inflammatory Properties of Cholinergic Up-regulation: A New Role for Acetylcholinesterase Inhibitors in CNS Inflammation

PSM05-23 Zhang, C.X.
Effect of Liver X Receptor Agonist on Microglial Cell Activation: Relevance to Multiple Sclerosis

PSM05-24 Phulwani, N.K.
Poly (ADP-ribose)polymerase-1 (PARP-1) modulates astrocyte activation

PSM05-25 Nikodemova, M.
The effect of minocycline on MHC II expression in microglia

PSM05-26 Ma, H.
Hsp 70 reversal of microglial-induced astrocyte injury

PSM05-27 Stark, J.L.
Endogenous regulatory mechanisms differentiate relapsing-remitting versus chronic experimental autoimmune encephalomyelitis

PSM05-28 Bilousova, T.V.
Acutely infiltrating macrophages and not resident adult microglia are neurotoxic following in vivo activation

PSM05-29 Kauppinen, T.M.
TNF alpha induces microglial activation by a mechanism involving calcium, phospholipase C, erk2 and parp-1.

PSM05-30 Pope, S.A.
Astrocytes derived factors in the protection of neurones against oxidative stress

PSM06-1 Mel, T.M.
Cortical glutamate metabolism is enhanced in a genetic model of absence epilepsy

PSM06-2 Gu, Y.H.
Structure-Function Relationship of Rat beta 1, 4-N Acetylgalactosaminyltransferase (GalNAcT) for Glycolipid Biosynthesis

PSM06-3 Olstad, E.
Effect of Kainic Acid on Glutamate Metabolism in Cultured Neurons

PSM06-4 Kiebish, M.A.
Lipid Composition of Non-synaptic Mouse Brain Mitochondria

PSM06-5 Navarro, D.
Region-selective alterations of glucose oxidation and amino acid synthesis in the thiamine-deficient rat brain: A 1H/13C NMR study

PSM06-6 Zielke, H.R.
GPI-20767, a glutaminase inhibitor, differentially affects hydrolysis of glutamine to glutamate by cultured neurons and astrocytes

PSM06-7 McKenna, M.C.
Cortical Neurons Metabolize Acetyl-L-Carnitine for Energy and Neurotransmitter Synthesis

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PSM06-11 Maciejewski, P.K.
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PSM07-3 Pawlosky, R.J.
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PSM08-6 Benjamins, J.A.
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Participation of p53 family proteins in the oligodendroglial differentiation. Regulation by the ubiquitin-proteasome system

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PSM08-11 Afshari, E.S.
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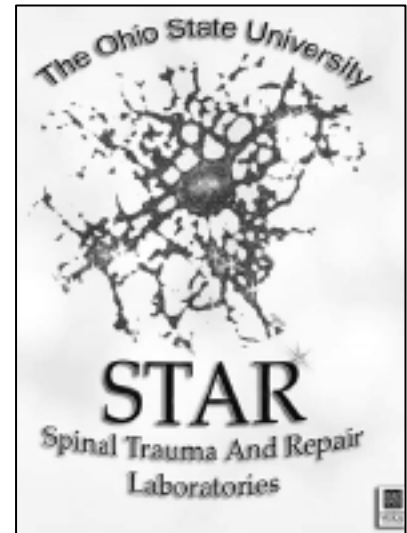
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The Ohio State University, Columbus, Ohio

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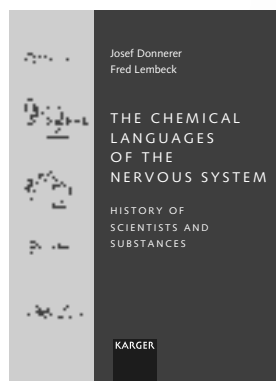
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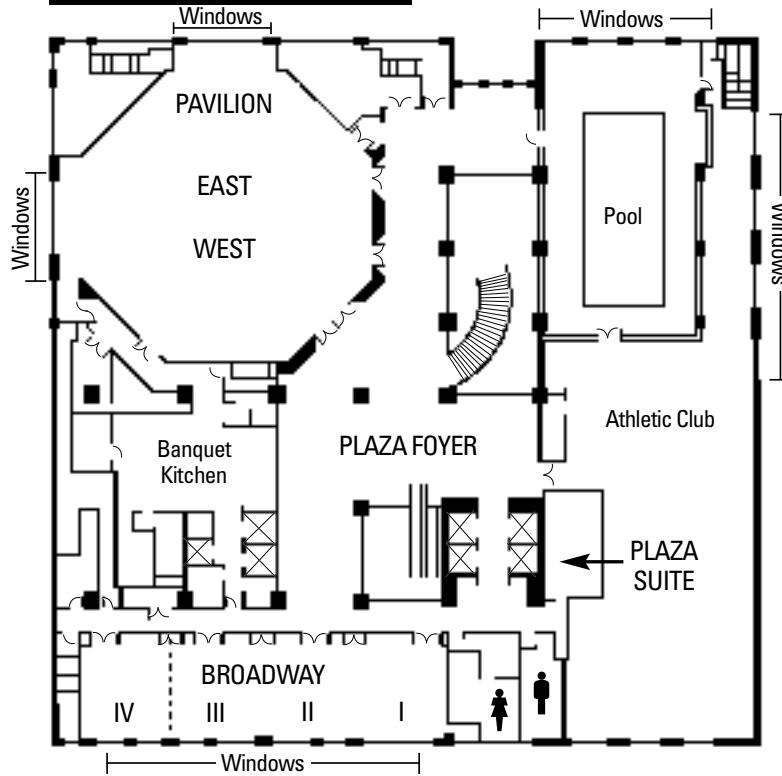
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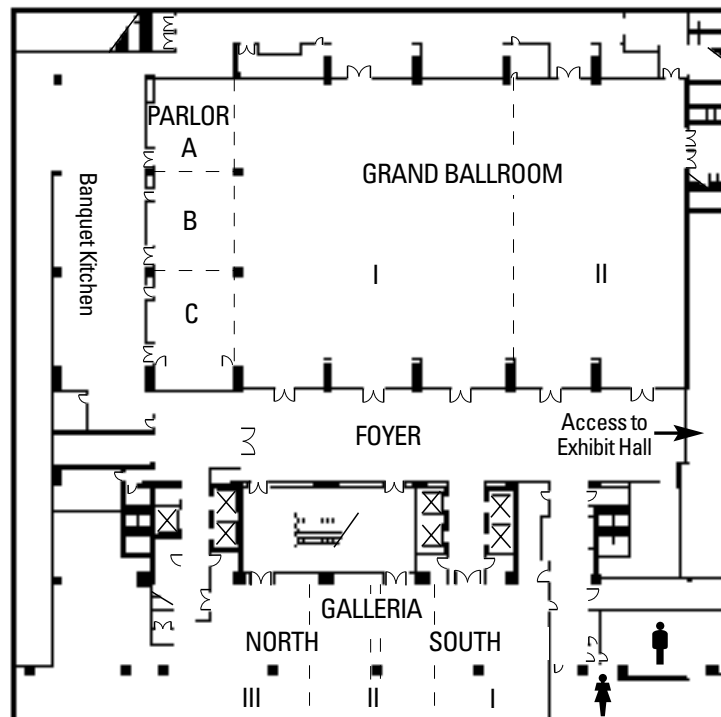
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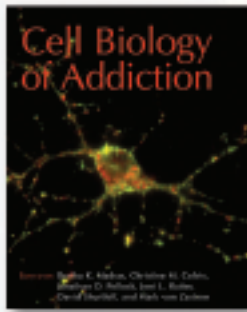
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Cell Biology of Addiction



Edited by Bertha Madras, *Harvard Medical School*, Christine M. Colvis, *National Institute on Drug Abuse/NIH*, Jonathan D. Pollock, *National Institute on Drug Abuse/NIH*, Joni L. Rutter, *National Institute on Drug Abuse/NIH*, David Shurtleff, *National Institute on Drug Abuse/NIH*, and Mark von Zostrow, *University of California, San Francisco*

This monograph, written by experts in the field, is devoted to the molecular analysis of addiction pathways in the brain. It provides an intensive overview of the fundamentals, state-of-the-art advances, and major gaps in the cell and molecular biology of drug addiction within the broader context of neuroscience. Addiction research is a branch of neuroscience and psychology. The emphasis in this book is on hard science and the market for it will be found among research investigators and grad students within the field of neuroscience. The research presented is not only applicable to the study of drug abuse and addiction, but has clear implications for clarifying mechanisms of learning and memory, neuroadaptation, perception, volitional behavior, motivation, reward, and other disciplines of neuroscience.

Published in November 2005, 480 pp., illus., appendices, index

Hardcover \$125

ISBN 0-87969-753-9

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