AMERICAN SOCIETY FOR NEUROCHEMISTRY

The Latest in Molecular and Cellular Neurobiology

36th Annual Meeting

Monona Terrace — Madison, Wisconsin

June 25—29, 2005

Welcome!

www.ASNeurochem.org

AMERICAN SOCIETY FOR NEUROCHEMISTRY

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Dandan Sun
Clive Svendsen

AGENDA-AT-A-GLANCE

Saturday, June 25

7:30 am – 6:00 pm	**ASN Registration Desk Open**	Monona Terrace
9:00 am – 5:00 pm	**Omics Workshop**	Hall of Ideas J
1:00 pm – 5:00 pm	**ASN Council Meeting I***	Meeting Room G
6:00 pm – 8:00 pm	**ASN Welcome Reception**	Monona Center Rooftop

Sunday, June 26

7:00 am	**ASN Registration Desk Open** Authors to setup Posters by 7:30 am	Monona Terrace
7:00 am – 7:00 pm	**Internet Stations-*Sponsored by Springer***	Meeting Room N
7:00 am – 7:00 pm	**Placement Information**	Meeting Room R
8:00 am – 7:00 pm	**ASN Annual Meeting Sessions**	Monona Terrace
12:00 pm – 1:15 pm	**Lunch with the Speakers**	Monona Terrace
1:15 pm – 3:00 pm	**Poster Presentations—*Authors Present 1:30 to 2:30***	Grand Terrace/Ballroom A
6:30 pm – 8:00 pm	**Public Outreach Forum on Autism**	Hall of Ideas F/1
7:30 pm – 10:30 pm	**Student/Post-Doc Dinner—Ticket Required** ***Sponsored by Sanofi-Aventis***	Club Majestic

Monday, June 27

6:45 am – 8:00 am	**Lake Monona Bike Ride—Ticket Required**	Machinery Row Bike Shop
7:00 am	**ASN Registration Desk Open**	Monona Terrace
7:00 am – 7:00 pm	**Internet Stations-*Sponsored by Springer***	Meeting Room N
7:00 am – 7:00 pm	**Placement Information**	Meeting Room R
8:00 am – 7:00 pm	**ASN Annual Meeting Sessions**	Monona Terrace
9:00 am – 4:00 pm	**Guest Tour—Ticket Required**	Depart—Hilton Lobby
11:45 am – 1:00 pm	**Lunch with the Speakers**	Monona Terrace
11:45 am – 1:00 pm	**Women in Neurochemistry (WIN) Luncheon**	Room O/P
1:00 pm – 2:45 pm	**Poster Presentations—*Authors Present 1:30 to 2:30***	Grand Terrace/Ballroom A
7:00 pm – 8:30 pm	**ASN Business Meeting—All Members Invited**	Hall of Ideas E/H

Tuesday, June 28

7:00 am	**ASN Registration Desk Open**	Monona Terrace
7:00 am – 7:00 pm	**Internet Stations-*Sponsored by Springer***	Meeting Room N
7:00 am – 7:00 pm	**Placement Information**	Meeting Room R
8:00 am – 5:00 pm	**ASN Annual Meeting Sessions**	Monona Terrace
12:00 pm – 1:30 pm	**Past Presidents Lunch**	Room M
12:00 pm – 1:15 pm	**Lunch with the Speakers**	Monona Terrace
1:15 pm – 3:00 pm	**Poster Presentations—*Authors Present 1:30 to 2:30***	Grand Terrace/Ballroom A
5:00 pm – 6:30 pm	**Wine/Cheese Reception** ***Sponsored by Signet Laboratories***	Monona Grand Terrace
5:30 pm	**American Players Theater—Ticket Required**	Depart—Monona Lobby

Wednesday, June 29

7:00 am	**ASN Registration Desk Open**	Monona Terrace
7:00 am – 7:00 pm	**Internet Stations-*Sponsored by Springer***	Meeting Room N
7:00 am – 7:00 pm	**Placement Information**	Meeting Room R
8:00 am – 7:00 pm	**ASN Annual Meeting Sessions**	Monona Terrace
12:00 pm – 1:15 pm	**Lunch with the Speakers**	Monona Terrace
12:00 pm – 2:00 pm	**ASN Council Meeting***	Hall of Fame Room
1:15 pm – 3:00 pm	**Poster Presentations—*Authors Present 1:30 to 2:30***	Grand Terrace/Ballroom A
7:00 pm – 8:00 pm	**President's Reception**	Monona Terrace
8:00 pm – 11:00 pm	**ASN Closing Banquet**	Monona Terrace

***Indicates private function**

Sunday, June 26, 2005

7:00 am	ASN Registration Desk Open Posters Set-up by 7:30 am	Monona Terrace
7:00 am – 7:00 pm	Internet Stations-*Sponsored by Springer*	Meeting Room N
7:00 am – 7:00 pm	Placement Information	Meeting Room R
8:00 am – 8:15 am	General Session Welcome - George H. DeVries, President Travel Awardees Recognition New Members Recognition	Ballroom C
8:15 am – 9:15 am	Keynote Speaker-Basic Nerochemistry Lecture P1 Mu-Ming Poo Experience-dependent Modification of Neural Circuits — Cellular and Molecular Mechanisms	Ballroom C
9:15 am – 9:45 am	Break-*Sponsored by EMD Biosciences*	
9:45 am – 11:45 am	Concurrent Sessions:	

Ballroom B

Symposium 1
S1 Molecules and Mechanisms in Schwann Cell Development
Chairs: K. R. Jessen & R. Mirsky

S1-01 Kristjan R. Jessen
The function of Notch and stress kinase signals in early Schwann cell development

S1-02 John Svaren
Krox-20 collaborators and regulation of myelin gene expression"

S1-03 R. Douglas Fields
Purinergic signaling molecules regulating Schwann cell development in response to impulse activity in axons

S1-04 Nancy Ratner
Tyrosine kinase signalling in peripheral nerve tumorigenesis

Ballroom D

Symposium 2
Jordi Folch-Pi Memorial
S2 Progress on the pathogenesis of hereditary neurodegenerative disorders
Chair: L. Notterpek

S2-01 Gopal Thinakaran
Cell Biology of Alzheimer's Disease Beta-Amyloid Production

S2-02 David Borchelt
Transgenic Mouse Models of Neurodegenerative Disease: Protein Misfolding and Neurodegeneration

S2-03 Lawrence Wrabetz
Protein Quality Control of P0 Glycoprotein in Hereditary Neuropathies

S2-04 Lucia Notterpek
Protein Aggregation and Aggregate Clearance in PMP22-associated Neuropathies

12:00 am – 1:15 pm	Lunch with Speakers	Monona Terrace
Purchase Tickets at ASN Registration Desk	P1	Hall of Ideas G
	S1	Hall of Ideas J
	S2	Hall of Ideas F
	C1	Hall of Ideas I
	C2	Hall of Ideas E
	C3	Hall of Ideas H
	W1	Hall of Ideas K
	W2	Hall of Ideas L

Sunday, June 26, 2005

1:15 pm – 3:00 pm **Poster Presentations** **Grand Terrace/Ballroom A**
Authors Present 1:30 to 2:30

3:00 pm – 5:00 pm **Concurrent Sessions:**

Ballroom B

Colloquium 1
C1 Mechanisms of HIV induced neuropathology: A critical role for astroglia, microglia, and HIV opiate interactions
Chair: P. Knapp

C1.1 Avindra Nath
Mechanisms of Neuropathology in HIV: A Clinical Overview

C1.2 David Volsky
HIV alters astrocyte gene expression and disrupts glutamate homeostasis: parallels with HIV dementia and HIV brain disease in a mouse model

C1.3 Yuri Persidky
HIV-1 brain infection, blood-brain barrier (BBB) and co-morbidity factors in HIV-1 associated neurodegeneration

C1.4 Kurt Hauser
A central role of astroglia in opioid-mediated neuroplasticity and in the pathology of drug-HIV interactions

Ballroom C

Colloquium 2
C2 Mechanisms and Regulation of Metal Transport into the CNS
Chair: J. Connor

C2.1 James R. Connor
Mechanisms and Regulation of Iron Transport into the Brain

C2.2 Michael Aschner
Mechanisms and Regulation of Manganese Transport into the Brain

C2.3 Leah Harris
Mechanisms and Regulation of Copper Transport into the Brain

C2.4 Michael Georgieff
Comparison of iron transport systems at the intestine, placenta and brain vascular-organ barriers

Ballroom D

Colloquium 3
C3 Modeling Brain Metabolism: Challenges and Controversies
Chair: S. Hutson

C3.1 Gerald A. Dienel
Lactate muscles its way into consciousness: Influence of brain activation on CMRO2/CMR carbohydrate metabolic ratio

C3.2 Douglas Rothman
Validation of in vivo measurements of neuronal/astroglial glutamate trafficking

C3.3 Kevin Behar
The Energetics of Glutamate/Glutamine and GABA/Glutamine Cycling In Vivo

C3.4 Kay LaNoue & Susan Hutson
Relationship between malate/aspartate shuttle and glucose consumption in the mammalian brain

C3.5 Rolf Gruetter
Clairvoyance and confusion: Outcome and limits of quantitative TCA cycle flux measurements

5:00 pm – 5:15 pm **Break**

Young Latin American Scholar Awards
Congratulations to the 2005 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.

Dr. Claudia Fuchal – Brazil
Dr. Rogerio Panizzutti – Brazil
Dr. Rodrigo Quintanilla – Chile

This Award is presented by ASN and ISN CAEN Committee to young neuroscientists from Latin America to attend the Meeting

Dr. Veronica Cheli – Argentina
Dr. Corina Garcia – Argentina
Dr. Pablo Paez – Argentina
Dr. Laura Pasquini – Argentina

Sunday, June 26, 2005

5:15 pm – 7:00 pm **Concurrent Sessions:**

Ballroom B

Oral Presentations 1

O1 Neurotoxicology

Chairs: R. Wiggins and N. Banik

O1.1 Bennett, K.
Estrogen treatment and immunoselection of basal forebrain cholinergic neurons

O1.2 Adibhatla, R.M.
Cytokines, Lipid Metabolism, and CDP-choline in Stroke

O1.3 Rama Rao, K.V.
Manganese-induced astrocyte swelling: role for the low grade brain edema in chronic hepatic encephalopathy

O1.4 Jeitner, T.M.
Hydrogen sulfide as a scavenger of HOCl

O1.5 Madrigal, J.M.
Neuroprotection by noradrenaline; Effects on neuronal IkB-alpha and PPAR receptors

O1.6 Mongin, A.A.
Comparison of Pharmacological Profiles of Volume-Regulated Cl-Currents and Excitatory Amino Acid Release in Cultured Astrocytes

O1.7 Samantaray, S.
Presence of MPP and motoneuron apoptosis with calpain activation in spinal cord of mice with MPTP-induced parkinsonism

Ballroom C

Workshop 1

W1 In vivo MR tracking of stem cell transplants in the CNS

Chair: J. Bulte

W1.1 Jeff WM Bulte
Principles and methods for the preparation of magnetically labeled cells

W1.2 Tamir Ben-Hur
MR imaging of transplanted cell migration in EAE

W1.3 Uwe Himmelreich
Stem cells for stroke regeneration: an in vivo MRI study

W1.4 Christian Spenger
Cell tracking in spinal cord grafts

W1.5 Mike Modo
Visualizing neural stem cells at work using MRI

Ballroom D

Workshop 2

W2 Oligodendrocyte cell culture models

Chairs: A.I. Boullerne & D. Osterhout

W2.1 Jean deVellis
How related are oligodendrocyte cell lines to primary oligodendrocyte cultures

W2.2 Joyce Benjamins
Glutamate receptors in oligodendroglia and their progenitors: Good, bad or indifferent?

W2.3 Vittorio Gallo
Molecular, functional, and developmental properties of NG2-expressing progenitors in situ

W2.4 Donna Osterhout
Molecular differences between neonatal and adult oligodendrocytes

W2.5 Anne Boullerne
Biology of adult human oligodendrocytes

W2.6 Robert Miller
Inter-regional differences of neonatal and adult oligodendrocytes

Hall of Ideas E/H

Special Session 1

SS1 Cutting Edge Discoveries and Scientific Advances

Chair: R. Miskimins

SS1.1 Georgyi Los
The HaloTagTM: A Novel Technology for Cellular Analysis

SS1.2 Gwen Fewell
Expression ArrestTM short hairpin RNA libraries: Solutions for transient, stable and in vivo RNA interference

SS1.3 James Kadushin and Robert C. Getts
High sensitivity detection of MicroRNA molecules

Sunday, June 26, 2005

6:30 pm – 8:00 pm	**Public Outreach Forum on Autism,** **Chair: M. Carson** **PF1.1** Carlos A. Pardo, MD **Is their brain inflammation in Autism?** **PF1.2** Lisa Boulanger, Ph.D. **Immune proteins in normal brain development and plasticity: Possible implications for autism**	**Hall of Ideas F/1**
7:30 pm – 10:30 pm	**Student/Postdoc Dinner** **Walking map provided at** **ASN Registration Desk—Ticket Required** ***Sponsored by Sanofi-Aventis***	**Club Majestic**

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Neurochemical Research is devoted to the rapid publication of studies that use neurochemical methodology in research on nervous system structure and function. The journal publishes original reports of experimental and clinical research results, perceptive reviews of significant problem areas in the neurosciences, brief comments of a methodological or interpretive nature, and research summaries conducted by leading scientists whose works are not readily available in English.

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Monday, June 27, 2005

6:45 am – 8:00 am	Lake Monona Bike Ride—Ticket Required	Machinery Row Bike Shop
7:00 am	ASN Registration Desk Open	Monona Terrace
7:00 am – 7:00 pm	Internet Stations-*Sponsored by Springer*	Meeting Room N
7:00 am – 7:00 pm	Placement Information	Meeting Room R
8:00 am – 8:15 am	General Session Marian Kies Award Presentation-Rick Cohen Winner-Christopher Taylor	Ballroom C
8:15 am – 9:15 am	Keynote Speaker P2 Mary Hatten New Directions in CNS Neuronal Migration	Ballroom C
9:30 am – 9:45 am	Refreshment Break-*Sponsored by EMD Biosciences*	
9:45 am – 11:45 am	Concurrent Sessions:	

Ballroom B

Symposium 3
Marian Kies Memorial
S3 Wiring the nervous system
Chair: M. Fox

S3.1 Akira Chiba
Dendrite guidance

S3.2 Alex Schier
Sensory ganglia formation and function

S3.3 Hisashi Umemori
FGFs are presynaptic organizing molecules in the mammalian brain

S3.4 Peter Scheiffele
Molecular mechanisms of synaptic differentiation

Ballroom C

Workshop 3
W3 Promoting Research Integrity: Do we need better scientists or better science?
Chair: R. DeVries

W3.1 Raymond De Vries
Discussion of recent NIH funded study on research integrity

Ballroom D

Workshop 4
W4 Glycogen: a static or dynamic energy source
Chairs: M. McKenna and A. Schousboe

W4.1 Bruce Ransom
Role of glycogen in supporting energy metabolism of CNS axons

W4.2 Ray Swanson
Manipulation of brain glycogen levels in vivo: Effects on neuron function and survival during severe hypoglycemia

W4.3 Helle Waagepetersen
Role of glycogen in neurotransmission

W4.4 Gerry Dienel
Glycogenolysis may reveal a large, "hidden cost" of astrocytic work

W4.5 Rolf Gruetter
In vivo studies of glycogen: turnover vs. net changes

W4.6 Leif Hertz
Inhibition of glycogenolysis at specific time points abolishes learning in day-old chick

Hall of Ideas E/H

Oral Presentation 2
O2 Oligodendrocytes: Life, death and resurrection
Chairs: M. Gardinier and P. Wight

O2.1 Lang, J.K.
BMP Regulation of Adult Human Oligodendrocyte Progenitor Fate

O2.2 McLaughlin, M.
Dynamics and cellular transport of PLP is altered in the rumpshaker mutant

O2.3 Shankar, S.L.
Gas6/Axl signaling protects oligodendrocytes from TNF-induced apoptosis via the PI3 kinase/Akt survival pathway

O2.4 Skundric, D.S.
Neutralization of IL-16 reduces inflammation, demyelination, axonal damage, and reverses paralysis during relapsing-remitting EAE

O2.5 Grinspan, J.B.
Induction of bone morphogenetic proteins in mouse spinal cord during experimental autoimmune encephalomyelitis

Continued

Monday, June 27, 2005

9:45 am – 11:45 am — **Concurrent Sessions: *Continued***

Ballroom B	Ballroom C	Ballroom D	Hall of Ideas E/H
			O2.6 Fressinaud, C. **NT-3 and PDGF partially restore mature oligodendrocyte plasticity after multiple insults in vitro**
			O2.7 Gao, L.M. **Specification of optic nerve oligodendrocyte precursors by retinal ganglion cell axons**

11:45 am – 1:00 pm	**Women in Neurochemistry (WIN) Luncheon**	**Hall of Ideas O/P**
12:00 pm – 1:30 pm	**JNR Board Meeting**	**Hall of Ideas Q**
11:45 am – 1:00 pm	**Lunch with Speakers**	**Monona Terrace**
Purchase Tickets at ASN Registration Desk	**P2**	**Hall of Ideas G**
	S3	**Hall of Ideas J**
	S4	**Hall of Ideas F**
	C4	**Hall of Ideas I**
	C5	**Hall of Ideas E**
	C6	**Hall of Ideas H**
	C7	**Hall of Ideas K**
	W3	**Hall of Ideas L**
	W4	**Hall of Ideas M**
1:00 pm – 2:45 pm	**Poster Presentations** ***Authors Present 1:30 to 2:30***	**Grand Terrace/Ballroom A**

2:45 pm – 4:45 pm — **Concurrent Sessions:**

Ballroom B	Ballroom C	Ballroom D	Hall of Ideas E/H
Colloquium 4 **C4 Toll-like Receptors in the Nervous System** Chair: G. Konat	**Colloquium 5** **C5 Beyond Immune Privilege: Is the CNS an immunologically active organ?** Chair: B. Melchior	**Colloquium 6** **C6 Ependymal Cells: Physiology, Pathology, and Neurochemistry** Chair: B. Hamprecht	**Colloquium 7** **C7 The Cell Biology of Myelin Repair** Chairs: R. Franklin and J. Mason
C4.1 Tammy Kielian **Differential roles for TLR2 in CNS bacterial infection and glia activation**	**C5.1** Zsuzsa Fabry **Dendritic cells and the initiation of immunity in the CNS**	**C6.1** Stephan Verleysdonk **Functional neurochemistry of cultured ependymal cells**	**C7.1** Robin Franklin **Introduction: new themes in CNS remyelination**
C4.2 Ian Marriott **Astrocytes as sentinel cells for CNS pathogens**	**C5.2** Francesca Aloisi **Formation of ectopic lymphoid tissue in the inflamed brain**	**C6.2** Bradley K.Yoder **Hydrocephalus in a murine intraflagellar transport mutant**	**C7.2** Regina Armstrong **Oligodendrocyte regeneration and remyelination after chronic demyelination**
C4.3 Kalipada Pahan **Role of Toll-like receptors in microglial activation**			

Continued

Monday, June 27, 2005

2:45 pm – 4:45 pm **Concurrent Sessions: *Continued***

Ballroom B	Ballroom C	Ballroom D	Hall of Ideas E/H
C4.4 Gregory Konat **Double stranded RNA triggers proinflammatory response in astrocytes: Implications for MS etiology**	**C5.3** Steve Miller **CNS dendritic cells drive naïve T cell proliferation and epitope spreading in relapsing EAE** **C5.4** Monica Carson **The healthy CNS actively regulates and redirects autoreactive T cell responses towards protective effector functions**	**C6.3** Pedro Fernandez-Llebrez **Specialized ependyma: subcommissural organ and adult germinative zones** **C6.4** Conrad E. Johanson **Putative linkage of fibroblast growth factor 2 with vasopressin in brain fluid homeostasis: Role of the choroid plexus** **C6.5** Francisco Nualart **Vitamin C transporters in ependymal cells**	**C7.3** Jeff Mason **IGF-1 protects oligodendrocytes and prevents the formation of chronically demyelinated lesions** **C7.4** Patrizia Casaccia-Bonnefil **Histone deacetylase activity in oligodendrocytes: development and repair** **C7.5** Fraser Sim **Fate-regulating pathways in adult human oligodendrocyte progenitors** **C7.6** Brahim Nait-Oumesmar **Forced expression of OLIG transcription factors promotes neural stem cells derived oligodendrocytes for myelin repair**

4:45 pm – 5:00 pm **Break**

5:00 pm – 7:00 pm **General Session (NAME BADGE REQUIRED)** **Ballroom B**

Symposium 4

S4 Frontiers in Embryonic Stem Cell Research

Chairs: O. Brustle & S.C. Zhang

S4.1 James Thomson
Improved culture of human ES cells

S4.2 Woo Suk Hwang
Pluripotent human embryonic stem cell line derived from a cloned blastocyst and its potential applications

S4.3 Ron McKay
The molecular biology of stem cells

S4.4 Su-Chun Zhang
Neural subtype specification from embryonic stem cells

S4.5 Oliver Brüstle
From ES cells to functional neurons and glia

7:00 pm – 8:30 pm **ASN Business Meeting-All Members Invited** **Hall of Ideas E/H**

Tuesday, June 28, 2005

7:00 am	ASN Registration Desk Open Posters set up by 7:30 am	Monona Terrace
7:00 am – 7:00 pm	Internet Stations-*Sponsored by Springer*	Meeting Room N
7:00 am – 7:00 pm	Placement Information	Meeting Room R
8:00 am – 10:00 am	Concurrent Sessions:	

Hall of Ideas E/H

Symposium 5
S5 Minocycline Therapy for CNS Disorders: Cellular and Molecular Aspects
Chair: I. Duncan

S5.1 Robert M. Friedlander
Mechanisms of minocycline-mediated neuroprotection

S5.2 Jari Koistinaho
Novel therapeutic targets on minocycline in the brain

S5.3 Maria Nikodemova
Molecular mechanisms of minocycline anti-inflammatory effects

S5.4 V. Wee Yong
The promise of minocycline in neurology

Ballroom B

Symposium 6
S6 Astrocytic regulation of neuronal excitability and synaptic transmission
Chair: P. Haydon

S6.1 Vladimir Parpura
Exocytotic release of glutamate from astrocytes

S6.2 Ken McCarthy
Glial calcium signaling modulates hippocampal synaptic transmission

S6.3 Giorgio Carmignoto
Neuronal synchrony in the hippocampus mediated by glutamate released from astrocytes

S6.4 Phil Haydon
Astrocyte Regulation of Synaptic Transmission and Plasticity

10:00 am – 10:30 am	Refreshment Break-*Sponsored by EMD Biosciences*	
10:30 am – 10:45 am	General Session Jordi Folch-Pi Award Presentation-Joe Eichberg Winner—Matthew Rasband	Ballroom C
10:45 am – 11:45 am	Keynote Speaker P3 Klaus Nave Axon-glia interactions and the control of myelination	Ballroom C
12:00 pm – 1:15 pm	Past Presidents Luncheon	Hall of Ideas M
12:00 am – 1:15 pm	Lunch with Speakers	Monona Terrace
Purchase Tickets at ASN Registration Desk	P3	Hall of Ideas G
	S5	Hall of Ideas J
	S6	Hall of Ideas F
	C8	Hall of Ideas I
	C9	Hall of Ideas E
	C10	Hall of Ideas H
	C11	Hall of Ideas K
12:30 pm – 1:30 pm	Journal Neurochemistry Editorial Board Meeting	Hall of Fame Room

Tuesday, June 28, 2005

1:15 pm – 3:00 pm	**Poster Presentations** ***Authors Present 1:30 to 2:30***	**Grand Terrace/Ballroom A**
3:00 pm – 5:00 pm	**Concurrent Sessions:**	

Ballroom B

Colloquium 8
C8 Fast axonal transport, neurofilament phosphorylation and synaptic transmission
Chair: R. Gould

C8.1 Harish Pant
Why cytoskeletal proteins are selectively phosphorylated in the axonal and not the cell body compartment?

C8.2 Scott Brady
Regulation of Fast Axonal Transport and Neurodegeneration

C8.3 George Augustine
Molecular mechanisms of synaptic vesicle exocytosis

C8.4 Eileen Lafer
Molecular Mechanisms of Synaptic Vesicle Endocytosis

Ballroom C

Colloquium 9
C9 Therapeutic manipulation of CNS inflammation/immune responses in Alzheimer's disease
Chair: M. Carson

C9.1 Gary Landreth
Nuclear receptors as therapeutic targets in CNS inflammatory indications

C9.2 David Morgan
Microglial activation in APP transgenic mice after passive immunization with anti-Ab antibodies

C9.3 Benoit Melchior
TREM-mediated activation of microglia and macrophages: implications for vaccine mediated Alzheimer's disease therapies

C9.4 David Cribbs
Immunotherapy for Alzheimer's disease

Ballroom D

Colloquium 10
C10 The Role of Adult Derived Stem Cells in the Nervous System
Chair: R. Cohen

C10.1 Rick Cohen
Introduction to adult stem cells in the nervous system

C10.2 Eva Mezey
Can bone marrow cells help heal the brain?

C10.3 Terry Burns
MAPCs and neurogenic potential

C10.4 Jeffery D. Kocsis
Marrow stromal cell transplantation to repair of the injured nervous system

C10.5 Fred Jerrold Roisen
Human adult olfactory epithelial derived neural progenitors a possible source of progenitors for autologous transplantation

Hall of Ideas E/H

Colloquium 11
C11 Lipid Pathways as targets for MS Therapy
Chairs: K. Chandross and J. Merrill

C11.1 Klaus Nave
The role of cholesterol in myelin assembly

C11.2 Karen Chandross
Selective Agonists Activate PPAR-delta Signaling Complexes and Promote the Differentiation of Oligodendrocyte Progenitors.

C11.3 Doug Feinstein
Potential use of PPAR Agonists for Treatment of Demyelinating Disease

C11.4 Inderjit Singh
Statins in MS Inflammatory Disease

5:00 pm – 6:30 pm	**Wine/Cheese Reception-*Sponsored by Signet Labs***	**Grand Terrace/A**
5:30 pm	**Depart for American Players Theater** **Tickets Required**	**Monona Lobby**

Wednesday, June 29, 2005

7:00 am	**ASN Registration Desk Open**	**Monona Terrace**
7:00 am – 7:00 pm	**Internet Stations-*Sponsored by Springer***	**Meeting Room N**
7:00 am – 7:00 pm	**Placement Information**	**Meeting Room R**
8:00 am – 10:00 am	**Concurrent Sessions:**	

Hall of Ideas E/H

Symposium 7
S7 NF-kappa B in Neurons: Smoking the Red Herrings
Chair: S. Barger

S7.1 Paul Massa
Unique control of NF-kappaB activation by canonical and translational pathways in neurons

S7.2 Steve Barger
Abortive activation of NF-kappaB in neurons: Is there any other kind?

S7.3 John Bethea
Identification of Novel Regulators of NF-kB activation

S7.4 David Park
The dual nature of NFkappaB in neuronal death/survival

Ballroom B

Symposium 8
S8 Mechanisms of Axonal Degeneration in Myelin Diseases
Chair: B. Trapp

S8.1 Peter Stys
Excited White Matter: Glutamate and Axonal Injury

S8.2 Kenneth Smith
A Strategy for Axonal Protection in Inflammatory Demyelinating Disease

S8.3 Joel Black
Na Channels and Axonal Degeneration in MS and its models

S8.4 Bruce Trapp
Mitochondrial Dysfunction and Axonal Degeneration in Chronic MS Patients

Ballroom D

10:00 am – 10:30 am	**Refreshment Break-Sponsored by EMD Biosciences**	
10:30 am – 10:45 am	**General Session** **Bernard Haber Award Presentation-Nick Bazan** **Winner—Abel Lajtha**	**Ballroom C**
10:45 am – 11:45 am	**Keynote Speaker** **P4 Stuart Lipton** **Paradigm Shift in Neuroprotective Drug Treatment**	**Ballroom C**

37th ASN Annual Meeting
Portland, Oregon – March 11 – 15, 2006

Wendy Macklin - ASN President 2006
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The meeting will be held at the beautiful Hilton Hotel
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Wednesday, June 29, 2005

12:00 am – 1:15 pm	Lunch with Speakers	Monona Terrace
	P4	Hall of Ideas G
Purchase Tickets at ASN Registration Desk	S7	Hall of Ideas J
	S8	Hall of Ideas F
	C12	Hall of Ideas I
	C13	Hall of Ideas E
	C14	Hall of Ideas H
	W5	Hall of Ideas K
	W6	Hall of Ideas L
1:15 pm – 3:00 pm	Poster Presentations *Authors Present 1:30 to 2:30*	Grand Terrace/Ballroom A
3:00 pm – 5:00 pm	Concurrent Sessions:	

Hall of Ideas E/H

Colloquium 12
C12 Transcriptional mechanisms of Cerebral Inflammation
Chair: R. Vemuganti

C12.1 Midori Yenari
Influence of hypothermia on post-ischemic inflammation: role of NF-kB

C12.2 Tiina Kauppinen
PARP-1 activation in post-ischemic inflammation and neuronal death

C12.3 Paul Drew
Role of PPAR-gamma in cerebral inflammation

C12.4 Raghu Vemuganti
Role of STAT-SOCS signaling in controlling stroke-induced inflammation and brain damage

C12.5 Anthony J.Williams
Neuroprotection with the proteasome inhibitor MLN519 in focal ischemic brain injury: relation to NF-kB, inflammatory gene expression, and leukocyte infiltration

Ballroom C

Colloquium 13
C13 Neural progenitors of the subventricular zone and their role in pathology and repair
Chair: V. Gallo

C13.1 Fiona Doetsch
Neural Stem Cells of the Adult SVZ and their Developmental Regulation

C13.2 Vittorio Gallo
NG2-expressing Progenitors of the Perinatal SVZ Generate Inhibitory Interneurons in the Hippocampus and Olfactory Bulb

C13.3 Ann Baron-Van Evercoren
Migration and multipotentiality of PSA-NCAM Neural Precursors in the Developing Brain

C13.4 Steve Levison
Regenerative Responses of Resident Neural Stem Cells to Developmental Brain Injuries

Ballroom D

Colloquium 14
C14 Integrin/ECM signalling and neural development
Chair: C. ffrench-Constant

C14.1 Charles ffrench-Constant
Introduction – emerging roles for ECM in neural development

C14.2 David Calderwood
Integrin activation – a final common pathway

C14.3 Uli Mueller
Integrin function in CNS development

C14.4 Holly Colognato
Integrin/growth factor interactions in myelination

C14.5 Bruce Patton
Coordinate control of myelination by laminin-2 and laminin-8

5:00 pm – 5:15 pm	Break	Capitol Promenade

Wednesday, June 29, 2005

5:15 pm – 7:00 pm **Concurrent Sessions:**

Hall of Ideas F/I

Workshop 5
W5 Ammonia neurotoxicity: Molecular mechanisms and protection
Chair: J. Albrecht

W5.1 Michael D. Norenberg
Role of glutamine in the mechanism of ammonia neurotoxicity

W5.2 Roger F. Butterworth
Energy failure and cerebral edema in hyperammonemia: roles of glutamine, lactate and alanine

W5.3 Vicente Felipo
Role of altered NMDA receptor signal transduction in acute ammonia toxicity and in neurological deficits in chronic hyperammonemia

W5.4 Jan Albrecht
Endogenous neuroprotectants in ammonia neurotoxicity

W5.5 Magdalena Zielinska
Ammonia affects the nitric oxide-cGMP pathway in cultured rat astrocytes and cerebral capillary endothelial cells

W5.6 Regina Rodrigo
Differential alterations of the glutamate-nitric oxide-cGMP pathway in cerebellum and cerebral cortex in hepatic failure

Hall of Ideas E/H

Workshop 6
W6 Zebrafish as a model for nervous system development and disease
Chair: S. Moorman

W6.1 Stephen Moorman
Zebrafish as a model organism

W6.2 Mary Halloran
Studying axon guidance in the zebrafish

W6.3 Stephen Ekker
Targeted gene knockdown in zebrafish

W6.4 Hans-Martin Pogoda
Genomic approaches to studying myelination in zebrafish

Ballroom D

Oral Presentation 3
O3 Glia and Neurological Disorders
Chairs: R. Swanson and M. Brenner

O3.1 Westmark, C.
FMRP Mediates mGluR1-Activated Translation of Amyloid Precursor Protein

O3.2 Dello Russo, C.
A new HSP90 inhibitor reduces experimental autoimmune encephalomyelitis

O3.3 Li, J.
Nrf2-dependent ARE activation is a gain of function alteration specific to differentiated astrocytes.

O3.4 Jana, A.
HIV-1 neurotoxic proteins and activated astroglia kill human primary neurons via neutral sphingomyelinase

O3.5 Carpentier, P.A
The role of protein kinase R in the activation of astrocytes by viral infection

O3.6 Yamada, M.
BMP signaling regulates glial scarring

O3.7 Brambilla, R
Inhibition of astroglial NF-kB reduces inflammation and improves functional recovery following spinal cord injury

Ballroom C

Oral Presentation 4
O4 Intracellular Signaling in Glia and Neurons
Chairs: A. Gow and B. Fuss

O4.1 Saha, R.N.
Greater availability of NF-kB p65:p50 in glia than neurons: Implications for neurodegenerative disorders

O4.2 Lin, W.
ER Stress Modulates the Response of Myelinating Oligodendrocytes to the Immune Cytokine Interferon-gamma

O4.3 Marta, C.B.
Elucidating the Mechanism of anti-MOG Antibody-Mediated Demyelination

O4.4 Zhang, Z.
Activation of the Caspase Independent Pathway in PLP Overexpresser Mice

O4.5 Morfini, G.
Molecular Mechanisms Underlying Kinesin Inhibition by Polyglutamine-expanded proteins.

O4.6 Hynds, D.L.
Inhibition of RhoA Signaling Decreases Actin Filament Content in Neuroblastoma Growth Cones

7:30 pm – 8:00 pm	**Presidents Reception**	**Monona Capitol Promenade**
8:00 pm – 11:00 pm	**ASN Closing Banquet** **Speaker: William Linton, CEO, Promega Corporation** ***Entertainment Sponsored by Promega***	**Ballroom B**

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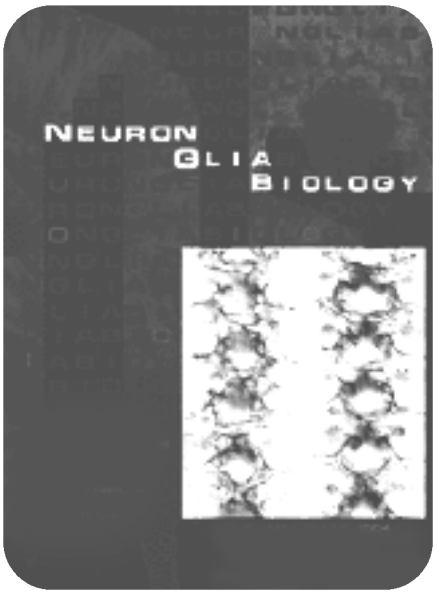

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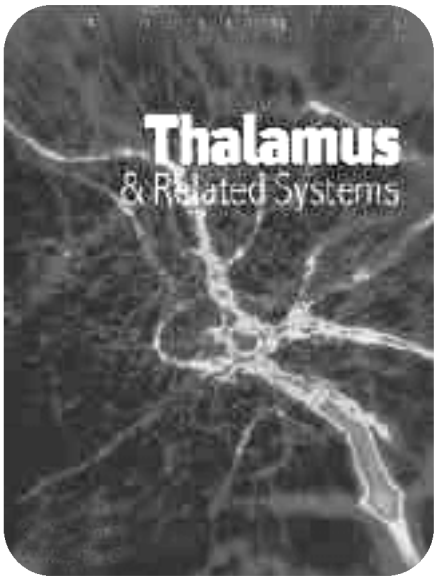

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Authors Present 1:30—2:30

Grand Terrace/Ballroom A

PSM1-01 Waschek, J.A., Armstrong, B.D., Abad, C., Chhith, S., Rodriguez, W.I., Cheung-Lau, G., Ngo, D.
Critical involvement of CD4+ T-lymphocytes in axotomy-induced PACAP gene expression in mouse facial motor neurons

PSM1-02 Smith, M.C., Chang, A., Staugaitis, S.M., Trapp, B.D.
Neurogenesis in the Lesions of Multiple Sclerosis

PSM1-03 Warrington, A.E., Bieber, A.J., Van Keulen, V., Ciric, B., Pease, L.R., Rodriguez, M.
A recombinant human IgM promotes remyelination at doses analogous to a growth factor

PSM1-04 Baek, R.C., Lee, J.P., Seyfried, T.N., Snyder, E.Y.
Neural Stem Cell Transplantation Reduces Brain GM2 and GA2 Content in a Mouse Model of Sandhoff Disease

PSM1-05 Svetlov, S.I., Kukekov, V.G., Wang, K.K., Hayes, R.L.
LPA, endocannabinoids, and their receptors in the development of neural progenitors

PSM1-06 Seehus, C.R., Schneider, B.L., Capowski, E.E., Svendsen, C.N.
Controlling Transgene Expression by Lentiviral Infection of Human Neural Progenitor Cells

PSM1-07 Alagappan, D., Felling, R.J., Levison, S.W.
Perinatal Hypoxia/Ischemia Enhances EGF Responsiveness of SVZ Neural Stem/Progenitors

PSM1-08 Nelson, A.D., Svendsen, C.N.
FGF-2 is Sufficient but Not Completely Necessary for Neurogenesis from hNPCs

PSM1-09 Yu, R.K., Dinkins, M.B., Su, C.Y., Liour, S.S.
Spatiotemporal expression of GM1 in Murine Medial Pallial Neural Progenitor Cells

PSM1-10 Klein, S.M., Svendsen, C.N.
EAAT2 expression by neural progenitor cell derived astrocytes

PSM2-01 Chai, Y.F., Haughey, N.J.
Amyloid-b Enhances Purinotoxicity by Caspase3 Mediated Cleavage of the P2X4 C-Terminal

PSM2-02 Chauhan, N.B., Sandoval, J.C.
Effect of Aged Garlic Extract on Morris Water maze Performance in Tg2576 rats

PSM2-03 Martin, M., Readhead, C.
In Vivo Beta-Amyloid Plaques Visualized through MRI in Mouse Model of Alzheimer's Disease

PSM2-04 Chen, C., Duce, J.A., Hollander, W., Kipling, D., Rosene, D.L., Abraham, C.R.
Gene expression profiles in aging rhesus monkey brain

PSM2-05 Sirkis, D.W., Kraft, A.D., Stein, T.D., Johnson, D.A., Johnson, J.A.
Activation of the antioxidant response element in the prefrontal cortex of Tg2576 mice expressing mutant amyloid precursor protein

PSM2-06 Chen, C., Oh, S., Abraham, C.R.
Visualization of Homodimeric and Heterodimeric Interactions between APP and Notch2 Proteins in Living Cells Using BiFC analysis

PSM2-07 Ferrari, D.C., Bourne, K.Z., Perez-Polo, J.R.
Roles of the different beta-Amyloid molecular species in cellular binding and pathology in AlzheimerÕs disease

PSM2-08 Polak, P.E., Kalinin, S., Madrigal, J.M. , Gavrilyuk, V. , Marien, M., Feinstein, D.L.
Beta-Amyloid Dependent Expression of Inducible Nitric Oxide Synthase in Neurons: Prevention by a2-Adrenergic Receptor Antagonist

PSM2-09 Gibson, G.E., Huang, H.M., Chen, H.L.
Select oxidants produce changes in endoplasmic reticulum Ca2+ stores reminiscent of those in patients with Alzheimer

PSM2-10 Kalinin, S.A. , Chauhan, N., Gavrilyuk, V.G., Galea, E., Feinstein, D.L.
Possible Mechanisms of Noradrenergic Action in TgAPP Mice

PSM2-11 Quintanilla, R.A., Godoy, J.A., Toro, A., Santos, M.J., Inestrosa, N.C.
Peroxisomal Proliferation Prevents b-Amyloid-Neurotoxicity in Rat Hippocampal Neurons

PSM2-12 Brittain, G., Bethea, J.R.
The Role of the Alternative NF-kB Signaling Pathway in the Induction of AD Pathogenesis

PSM2-13 Seabrook, T.J., Jiang, L., Maier, M., Lemere, C.A.
Effects of minocycline on Alzheimer's disease pathogenesis.

PSM2-14 Lee, H.G., Ueda, M., Zhu, X., Perry, G., Smith, M.A.
Ectopic Localization of Active Smad2 in the Vulnerable Neurons in Alzheimer Disease

PSM2-15 Combs, C.K., Floden, A.M.
Beta-Amyloid Stimulated Microglia Induce Neuron Death via Synergistic Stimulation of Tumor Necrosis Factor and NMDA Receptors

PSM2-16 Kandimalla, K.K., Curran, G.L., Holasek, S.S., Gilles, E.J., Wengenack, T.M., Poduslo, J.F.
Pharmacokinetic Analysis of BBB Transport of 125I-AB40 in WT/AD Transgenic Mice and Its Implication for Amyloid Plaque Formation

PSM2-17 Wu, C.Y., Wei, J.J., Polak, P.E., Sharp, A.R., Mao, J.L., Feinstein, D.L., Gould, R.M., Nichols, L. Park, K., Cai, L., Innis, R.B.
Development of Novel Amyloid Imaging Agents Based Upon Thioflavins

PSM2-18 Giles, K.E., Kandimalla, K.K., Ramirez-Alvarado, M., Poduslo, J.F.
Development of AB40 Derivatives That Do Not Form Fibrils As MRI Contrast Agents For Detecting Alzheimer's Disease Amyloid Plaques

Continued

Authors Present 1:30—2:30

Continued

Grand Terrace/Ballroom A

PSM3-01 Das, A., Karmakar, S., Saha, A., Banik, N.L., Ray, S.K.
Dexamethasone decreases while acetazolomide increases temozolomide induced apoptosis in human glioblastoma U87MG cells

PSM3-02 Karmakar, S., Saha, A., Das, A., Banik, N.L., Ray, S.K.
Curcumin activated mutiple molecular mechamisms for apoptosis in human glioblastoma T98G cells

PSM3-03 Fiscus, R.R., Tsim, J., Wong, C.Y., Leung, L.H.
Phosphodiesterase inhibitors protect against apoptotic cell death induced by nitric oxide or rotenone in NG108-15 cells

PSM3-04 Banik, N.L., Sribnick, E.A., Ray, S.K.
Estrogen attenuates glutamate-induced death in a spinal motoneuron cell line

PSM3-05 Franklin, J.L., Kirkland, R.A.
Bax and reactive oxygen in cytochrome c-depleted neurons

PSM3-06 Ray, S.K., Sribnick, E.A., Matzelle, D.D., Banik, N.L.
Combination of TUNEL and double immunofluorescent labeling demonstrated calpain in neuronal apoptosis in rat spinal cord injury

PSM3-07 Spagnolo, A., Lichtor, T., Glick, R., Dello Russo, C., Murphy, P., Lin, H., Gavrilyuk, V., Feinstein, D.L.
Thiazolidinediones Induce Glioma Toxicity: Involvement of Mitochondria and ROS

PSM3-08 Podratz, J.L., Knight, A.M., Windebank, A.J.
cisplatin-induced delayed cell death in drg neurons is associated with altered mitochondrial function.

PSM3-09 Bieberich, E.,
Slips versus rafts: A novel mechanism regulating cell fate decisions by sphingolipid-induced remodeling of cell signaling platform

PSM3-10 Wang, G., Silva, J., Krishnamurthy, K., Condie, B.G., Bieberich, E.
Ceramide induces apoptosis selectively in pluripotent stem cells and promotes neuronal differentiation of neuroprogenitors

PSM3-11 Wolf, G., Schroeter, A., Andrabi, S., Horn, T.
Modulation of NMDA-induced calcium transients by NO applications simultaneous or prior to the stimulus: cell death or survival

PSM3-12 Herrero, R., Yi, J.H., Hazell, A.S.
Focussed microarray analysis reveals induction of TRAIL in cerebral cortex following fluid-percussion injury in the rat

PSM3-13 Saqr, H.E., Omran, O.M., Oblinger, J.L., Yates, A.J.
GD3 Induces Apoptosis in U-1242 MG Glioma Cells Through a Caspase-8 Dependent PathwaY..

PSM3-14 Zimmermann, A.K., Loucks, F.A., Bouchard, R.J., Heidenreich, K.A., Linseman, D.A.
Inhibitors of Bcl-2/x(L) function elicit glutathione-sensitive neuronal death and oxidation of the mitochondrial ANT

PSM3-15 Monfort, P., Felipo, V.
Sequential activation of guanylate cyclase, PKG and cGMP-degrading phosphodiesterase in LTP. Alterations in hyperammonemia

PSM3-16 Bazan, N., Marcheselli, V.L. 1, Mukherjee, P.K.1, Hu, J.2, Bok, D.2, Hardy, M.1
Neurotrophic growth factors up-regulate neuroprotectin D1 (NPD1) synthesis and anti-apoptotic signaling in human retinal pigment epithelial (RPE) cells.

PSM4-01 LeBlanc, S.E., Srinivasan, R., Ferri, C., Mager, G.M., Gillian-Daniel, A.L., Wrabetz, L., Svaren, J.
Regulation of cholesterol/lipid biosynthetic genes by Egr2/Krox-20 during peripheral nerve myelination

PSM4-02 Mager, G.M., Srinivasan, R., Ward, R.M., Mayer, J., Svaren, J.P.
Nab2 represses Transcription by recruiting the Nucleosome Remodeling and Histone Deacetylase Complex

PSM4-03 Jakel, R.J., Kern, J.T., Johnson, D.A., Johnson, J.A.
6-Hydroxydopamine activates the antioxidant response element through oxidative, excitotoxic, and structural factors

PSM4-04 Royland, J.E., Geller, A.M.
Gene Expression in a Retinal Model of Age-Related Susceptibility

PSM4-05 Kodavanti, P.R., Royland, J.E.
Gene expression profiles in the developing rat cerebellum and hippocampus

PSM4-06 Molloy, G.R., Willis, D., Zhang, Y.
Transcription of brain creatine kinase in U87-MG glioblastoma is modulated by factor AP2

PSM4-07 Greuel, B.T., Pereira, B., Sample, M., Wight, P.A.
Regulation of myelin proteolipid protein gene expression: Molecular dissection of the antisilencer/enhancer region in intron 1.

PSM4-08 Chavez-Gutizrrez, L., Matta, E., Osuna, J., Joseph-Bravo, P., Maigret, B., Charli, J.L.
Homology modelling and site directed mutagenesis of pyroglutamyl peptidase II. Omega-versus amino-peptidase specificy.

PSM4-09 Dobretsova, A., Lichti, C.F., Wight, P.A.
Characterization of the enhanceosome formed on the myelin proteolipid gene by DNA affinity chromatography and mass spectrometry

PSM4-10 Cheema, T.A., Ward, C., Fisher, S.K.
Thrombin enhances osmosensitive release of taurine from human 1321N1 astrocytomas: role of Volume Sensitive Organic Anion Channel

Continued

Authors Present 1:30—2:30

Continued

Grand Terrace/Ballroom A

PSM5-01 Brenner, M., Li, R., Su, M., Johnson, A.B., van der Knaap, M.S., Salomons, G.S., Goldman, J., Quinlan, R. Messing, A.
GFAP mutations account for all forms of Alexander disease

PSM5-02 Hensley, K., Mhatre, M., Mou, S., Pye, N., Szweda, L.
Regulated Glutathionylation in Astrocytes: A New Aspect of Neuroinflammation

PSM5-03 Messing, A., Connor, J.X., Hagemann, T.L.
Generation and characterization of mice carrying Alexander disease-associated mutations in GFAP

PSM5-04 Zou, S.P., Adams, M.H., Zhao, T.Y., El-Hage, N., Hauser, K.F., Bruce-Keller, A.J., Knapp, P.E.
Transcription Factor Activity In Astrocytes: Interactions Between HIV-1 Tat And Opiates

PSM5-05 Silva, W.I., Velazquez, G., Rubio-Davila, M., Miranda, J.D., Maldonado, H.M., Jardon, J., Aquino, E., Mayol, N., Cruz, A.
Caveolin Isoform Expression during Differentiation of C6 Glioma Cells

PSM5-06 Jayakumar, A.R., Panickar, K.S., Norenberg, M.D.
Intracellular Signaling Pathways in Ammonia-induced Astrocyte Dysfunction

PSM5-07 Kintner, D.B., Look, A., Shull, G.E., Sun, D.D.
Activation of ERK1/2 Stimulates NHE1 Activity in Astrocytes in Response to in vitro Ischemia

PSM5-08 Rama Rao, K.V., Norenberg, M.D.
Role of aquaporin-4 in the mechanism of ammonia-induced astrocyte swelling

PSM5-09 Domowicz, M.S., Mueller, M.M., Henry, J.G., Schwartz, N.B.
Role of aggrecan in astrocyte differentiation

PSM5-10 Mirochnic, S., Evrard, S.G., Duhalde Vega, M., Tagliaferro, P., Caltana, L., Brusco, A.
Neuronal and astroglial response to a long abstinence period after a low, chronic ethanol exposure in the adolescent rat.

PSM5-11 Connor, J.R., Zhang, X.
Microglial iron status influences survival of oligodendrocytes

PSM5-12 Khairova, R.A., Lieberman, E.M.
NAAG, glutamate and NO - induced block of action potential generation and propagation in the crayfish nerve fiber.

PSM6-01 Sickmann, H.M., Schousboe, A., Fosgerau, K., Waagepetersen, H.S.
Lactate originating from glycogen is compartmentalized from glucose derived lactate in cultured astrocytes.

PSM6-02 Zielke, H.R., Zielke, C.L., Baab, P.J., Tsukamoto, T., Ferraris, D., Rojas, C., Wozniak, K., Slusher, B.
inhibition of glutamine hydrolysis in the interstitial fluid of the rat brain by a glutaminase inhibitor, gpi-20767

PSM6-03 Cole, J.T., Sweatt, A.J., Wallin, R., LaNoue, K.F., Lynch, C.J., Hutson, S.M.
Branched-Chain & a-keto-acid Dehydrogenase is a neuronal enzyme in brain.

PSM6-04 Schroeder, M.L., Sneve, M., Drewes, L.R.
Expression of Monocarboxylic Acid Transporter mRNA in the Developing Rat Brain Cortex

PSM6-05 Gerstner, J.R., Vander Heyden, W.M., Landry, C.F.
Diurnal regulation of brain fatty acid binding protein (fabp7) mRNA and poly(A) tail length in the rodent brain.

PSM6-06 Golovko, M.Y., Faergeman, N.J., Cole, N.B., Castagnet, P.I., Nussbaum, R.L., Murphy, E.J.
Alpha-Synuclein Gene-Ablation Decreases Brain Palmitate Uptake and Alters Palmitate Metabolism in Brain Phospholipids

PSM6-07 Akar, C.A., Colca, J., Dello Russo, C., Spagnolo, A., Gavrilyuk, V., Feinstein, D.L.
Receptor independent effects of thiazolidinediones in astrocytes

PSM6-08 Krasnikov, B.F., Ratan, R.R., Gibson, G.E., Iismaa, S., Cooper, A.J.
Transglutaminase Activity in Non-Synaptosomal Mouse Brain and Liver Mitochondria

PSM6-09 Brichac, J., Honzatko, A., Picklo, M.J.
Different enantioselectivity of 4-hydroxy-trans-2-nonenal oxidation in rat brain and liver mitochondria

PSM6-10 Honzatko, A., Brichac, J., Murphy, T.C., Mosley, D.M., Picklo, M.J.
Stereoselective detoxification of trans-4-hydroxy-2-nonenal by rat brain mitochondria.

PSM6-11 Spanier, J.A., Drewes, L.R.
protein-protein interaction technologies for identifying mct1 regulatory proteins

PSM6-12 Withdrawn

PSM6-13 Hewett, S.J., Silakova, J.S., Bonventre, J.V., Hewett, J.A.
Reduced Excitotoxic Neuronal Degeneration in Mice Deficient in Cytosolic Phospholipase A2

PSM6-14 Denny, C.A., Chalifoux, J.R., Kim, Y.P., Seyfried, T.N.
Retinal Glycosphingolipid Abnormalities in Sandhoff and GM1 Gangliosidosis mice

PSM6-15 Denny, C.A., Kasperzyk, J.L., Gorham, K.N., Bronson, R.T., Seyfried, T.N.
Caloric Restriction Extends Longevity without Altering Brain Lipid Composition or Cytoplasmic Neuronal Vacuoles in Sandhoff mice

PSM6-16 Zhao, H.W., Ross, A.P., Christian, S.L., Buchholz, J.N., Drew, K. L.
Suppression of NMDA receptor function in hibernating Artic ground squirrels

Continued

Authors Present 1:30—2:30

Continued

Grand Terrace/Ballroom A

PSM7-01 Miranpuri, G.S., Vemuganti, R., DomBourian, M.G., Turner, N.A., Gerovac, T.A., Tureyen, K., Isaacson, J.W., Miletic, V., Resnick, D.K.
Differential expression of nociceptive genes influence pain behavior following spinal cord injury in adult rats

PSM7-02 Kigerl, K.A., Rivest, S., Popovich, P.G.
Regulation of innate immunity after spinal cord injury in mice: involvement of toll-like (TLR) receptors

PSM7-03 Lucin, K.M., Sanders, V.M., Jones, T.B., Malarkey, W.B., Popovich, P.G.
Alterations in sympathetic nervous system and hypothalamic-pituitary-adrenal axis function after experimental spinal cord injury

PSM7-04 Golder, F.J., Mitchell, G.S.
Spinal synaptic plasticity following intermittent hypoxia improves respiratory function after chronic cervical spinal cord injury

PSM7-05 Knight, A.M., Georgi, S., Issa, A., De Ruiter, M., Yaszemski, M.J., Windebank, A.J.
Peptide attachment to biodegradable polymers for axonal guidance in spinal cord injury

PSM7-06 Banik, N.L., Sribnick, E.A., Matzelle, D.D., Wilford, G.G., Ray, S.K.
Estrogen attenuates neurodegeneration and improves motor function in the chronic model of spinal cord injury

PSM7-07 Karkora, A.C., M. Amin, E. Enany, R. Elbakary and S. Elgendy
clinical anatomical studies on the spinal cord of the egyptian goat

PSM7-08 Chen, Q., Zhou, L., Shine, H.D.
Acute injury is required for Neurotrophin-3 induced axonal plasticity in the spinal cord

PSM7-09 Skoff, A.M., Adler, J.E.
Inflammatory cytokines regulate nociceptive peptides through nerve growth factor

PSM8-01 Knapp, P.E., Zou, S.P., Alimova, Y.V., Hauser, K.F., Adjan, V.V.
Specific deficiency of kappa-opioid receptors in oligodendrocytes in the CNS of jimpy mice

PSM8-02 Dennis, J., White, M.A., Fox, M.A., Afshari, F.S., Fuss, B.
Phosphodiesterase-Ialpha/AutotaxinÕs matricellular properties facilitate process formation in oligodendroglial cells

PSM8-03 Gardinier, M.V., Allamargot, C., Koch, M.S., Lee, Y., Menon, K.
Myelin/oligodendrocyte glycoprotein: Receptor endocytosis, membrane targeting, and an intracellular partner

PSM8-04 DeBruin, L., Haines, J., LaForest, A., Harauz, G.
Developmental partitioning of MBP into myelin microdomains

PSM8-05 Boggs, J.M., Arvanitis, D.N., Min, W., Gong , Y.
Two Types of Low Density Detergent-Insoluble Membrane Domains from Myelin

PSM8-06 Feltri, M.L., Previtali, S.C., Zambroni, D., Dati, G., Occhi, S., Dina, G., Del Carro, U., Campbell, K., Saito, F., Quattrini, A., Wrabetz, L.
alpha6beta4 integrin confers stability to peripheral myelin.

PSM8-07 Eichberg, J., Konde, V.B., Garga, V., Rea, M.A.
Trafficking of wild type and cytoplasmic domain-mutated myelin protein zero-GFP in living Schwann cells

PSM8-08 Taylor, C.M., Karim, M., Marta, C.B., Han, D., Rasband, M.N., Pfeiffer, S.E.
the myelin proteome II: updated functional proteomic mapping of the myelin membrane

PSM8-09 Wang, Y., Gould, R.M., Stankoff, B., Lubetzki, C., Wu, C., Polak, P.E., Wei, J., Mao, J., Lankin, D.C., Feinstein, D.L., Zalc, B.
Development of Molecular Probes for In Vivo Studies of Myelin

PSM8-10 Gould, R.M., Morrison, H.G., Gilland, E., Campbell, R.K.
Evolution of myelin proteins: homologs identified in the ascidian (Ciona intestinalis) genome

PSM8-11 Garcia, C.I., Paez, P.M., Soto, E.F., Pasquini, J.M.
cDNA array in two oligodendroglial cell lines overexpressing transferrin show enhanced neurosteroids and mitochondrial activity.

PSM8-12 Calatayud, C.A., Garc'a, C.I., Paez, P.M., Soto, E.F., Pasquini, J.M., Pasquini, L.A.
A decrease in proteasome activity induces an activation of the myelin basic protein promoter.

PSM8-13 De Vries, G.H., Thomas, S.
Angiogenic Expression Profile of Neurofibromin-Deficient Schwann Cells and Regulation by Neurofibromin GAP Related Domain

PSM8-14 Amici, S.A., Notterpek, L.
Peripheral myelin protein 22 forms a complex with beta4 integrin in the Schwann cell membrane

PSM8-15 Boggs, J.M., Gao, W., Wang, M., Hirahara, Y., Gong, Y., Arvanitis, D.N., Min, W.
A Glycosynapse in Myelin?

PSM8-16 Anitei, M., Ifrim, M.F., Ewart, M.A., Bansal, R., Carson, J.H. Pfeiffer, S.E.
The Exocyst Regulates Myelin Formation and Maintenance.

PSM8-17 Nogaroli, L., Payne, S.G., Spiegel, S., Fuss, B.
Regulation of Oligodendrocyte Process Formation via PD-Ialpha/ATX and LPA.

PSM8-18 Zand, R., Pointer-Keenan, C.D., Lee, D.K., Hallok, K., Tan, A., Ramamoorthy, A.
Abstract title A Solid State NMR Study of MBP Interaction With Lipid Bilayers

PSM8-19 Wang, J., Wu, G., Lu, Z., Leone, P., Ledeen, R.W.
Myelin lipid deficiency in aspartoacylase-null (tremor) rats, model for Canavan disease: specific deficit of cerebrosides

Authors Present 1:30—2:30

1:30 pm—2:45 pm **Grand Terrace/Ballroom A**

PTW1-01 Anastasio, N.C., Johnson, K.M.
Pharmacological Analysis of Phencyclidine-Induced Regulation of the NMDA Receptor

PTW1-02 Mehta, M., Zaghloul, A., Wieraszko, A., Banerjee, P.
5-HT1A receptor signaling in neonatal mousebrain.

PTW1-03 Bersier, M.G., Miksztowicz, V., Pena, C., Rodriguez de Lores Arnaiz, G.
A study of the mechanism of neuro-transmitter release enhancement by an endogenous ouabain-like substance

PTW1-04 Withdrawn

PTW1-05 Miller, T.R., Milicic, I., Wang, J.S., Otte, S., Nikkel, A.L., Bitner, R.S., Drescher, K.U., Fox, G.B., Cowart, M.D., Hancock, A.A., Esbenshade, T.A.
Brain Localization and Neurochemical Effects of the Histamine H3 Receptor Antagonist ABT-239.

PTW1-06 Cheli, V., Adrover, M., Blanco, C., Thomas, J., Epstein, A., Jerusalinsky, D.
Identification and quantitation of hippocampal neurons transduced by HSV-1 vectors carrying sense and antisense NR1 transgenes.

PTW1-07 Panizzutti, R., Rausch, M., ZurbrŸgg, S., Baumann, D., Beckmann, N., Rudin, M.
The Pharmacological Stimulation of NMDA Receptors Via Coagonist.

PTW1-08 Burdo, J., Dargusch, R., Schubert, D.
The Novel Structure, Distribution and Function of The Brain Cystine Antiporter

PTW1-09 Dai, S.P., Burkat, P., Karlsson, M., Pearce, R.
Exchange Rate Characterization of a Microfluidic Chip and Its Application in Mutation Screen of GABA receptors in HEK293 Cells

PTW1-10 Bhumireddy, P., Arias, H.R.
Characterization of the Antidepressant Binding Site on the Nicotinic Acetylcholine Receptor

PTW1-11 Sutcliffe, J.G., Huitron-Resendiz, S., Henriksen, S.J., Hedlund, P.B.
5-HT7 receptor inhibition and inactivation induce antidepressant-like behavior

PTW1-12 Wallace, D.R., Paulson, J.D.
Nicotinamide-induced alterations in CYP2D6 metabolism of methamphetamine

PTW1-13 Rodriguez de Lores Arnaiz, G., Lopez Ordieres, M.G.
The inhibitory effect of neurotensin on neuronal Na+, K+-ATPase activity is altered by clozapine

PTW1-14 Kanjilal, B., Banerjee, P.
Molecular mechanism of the interactions of the atypical antipsychotic drugs with the components of 5HT2A/D2 , 5HT1

PTW1-15 Yao, J.K., Reddy, R.D., Keshavan, M.S.
Reduced RBC membrane lipids in first-episode neuroleptic naive patients with schizophrenia and other psychoses

PTW1-16 Wu, G., Lu, Z., Ledeen, R.W.
The sodium-calcium exchanger complexed with GM1 ganglioside in the nuclear membrane transfers calcium from nucleoplasm to ER

PTW2-01 Sobocki, T., Jayman, F., Sobocka, M.B., Levano, K., Sridhar, P., Banerjee, P.
Expression and Functional Role of Mouse ATPase II and ATPase Ib

PTW2-02 Sobol, C.V., Belostotskaya, G.B.
Ca2+ signal in rat brain neurons upon application of probiotic product.

PTW2-03 Heacock, A.M., Fisher, S.K.
Multiple Receptor Regulation of Osmolyte Release from SH-SY5Y Neuroblastoma Cells

PTW2-04 Rodriguez de Lores Arnaiz, G., Pereyra-Alfonso, S., Armanino, M.V., Pe–a, C., Vazquez, C., Williams, L.
Neurotensin receptor (NTS1) is involved in phosphoinositide hydrolysis enhancement by Na/K ATPase inhibition

PTW2-05 Pannu, R., Singh, A.K., Singh, I.
A novel role of lactosylceramide in the regulation of TNF alpha-mediated proliferation of rat primary astrocytes.

PTW2-06 Watters, J.J., Brautigam, V.M., Frasier, C., Nikodemova, M.
Purinergic inhibition of no production in BV-2 microglia: potential role for p38 mapk/creb pathway

PTW2-07 Larocca, J., Ortiz, E., Demoliner, K., Si, Q., Rodriguez, A.
Vesicle transport in oligodendrocytes: Role of rRab22b and OCRL-1.

PTW2-08 Bracchi-Ricard, V., Hu, W., Mo, X., Brambilla, R., Li, F., Walters, M.W., Blits, B., He, L., Schaal, S.M., Bethea, J.R.
NIBP: A Novel NIK and IKKb binding protein that enhances NFkB activation

PTW2-09 Bittencourt-Navarrete, R.E., Krahe, T.E., Ramoa, A.S.
Downregulation of ERK during recovery from the effects of a brief period of monocular deprivation (MD)

PTW2-10 Fitzgerald, J.K., DeVries, G.H.
Signal Transduction in Schwann Cells Stimulated by Axolemma Enriched Fraction

PTW3-01 Mirochnic, S., Evrard, S.G., Duhalde Vega, M., Tagliaferro, P., Caltana, L., Brusco, A.
Neuronal and astroglial response to a long abstinence period after a chronic ethanol exposure.

PTW3-02 Sun, Y., Wen, F., Yao, H.Y.
The Role Of Proinflammatory Cytokines In the Pathogenesis Of Cerebral Palsy

Continued

Continued

1:30 pm—2:45 pm Grand Terrace/Ballroom A

PTW3-03 Reed, J.L., Wang, C., Dimayuga, F.O., Angers, R., Keller, J.N., Bruce-Keller, A.J.
The Immunoproteasome in Inflammatory Signaling

PTW3-04 Usuki, S., Taguchi, K., Thompson, S.A., Rivner, M.H., Yu, R.K.
Sensitization of rats by lipopolysaccharides of Campylobacter jejuni

PTW3-05 Alexander, J.J., Vezina, P., Norenberg, M.D., Quigg, R.J.
Cyclophosphamide and prednisolone in lupus cerebritis - an old therapy revisited

PTW3-06 Parhizgar, S.S., Syapin, P.J.
Effect of Indomethacin on Inducible Proteins in Rat C6 and mouse N9 Glial Cells.

PTW3-07 Jana, M., Dasgupta, S., Dudley, T.M., Liu, X., Pahan, K.
Biological functions of IL-12 p40 homodimer and monomer are different from that of IL-12 p70 and IL-23

PTW3-08 Hamby, M.E., Hewett, J.A., Hewett, S.J.
Astrocytic Nitric Oxide Synthase-2 Expression is Potentiated by Transforming Growth Factor-b1

PTW3-09 Dimayuga, F.O., Wang, C., Reed, J.L., Bauman, G.P., Strange, J.C., Bruce-Keller, A.J.
Estrogen Modulates Microglial Respiratory Burst and Expression of Activation Signals for Costimulation and Apoptosis

PTW3-10 Brown III, J.C., Belmadani, A., Kumar, S., Neafsey, E.J., Collins, M.A.
neuroinflammatory-like mechanisms in alcohol-induced brain damage

PTW3-11 Konat, G.W., Banaszewska, M., Krasowska, A.
Double stranded RNA triggers nitric oxide generation and cytokine expression in astrocytes

PTW4-01 You, Y., Morfini, G., Pigino, G., Pollema, S., Marangoni, M.N., Szebenyi, G., Brady, S.
Polyglutamine-expanded Huntingtin and Androgen Receptor Inhibit Fast Axonal Transport Through Activation of SAPKs

PTW4-02 Grider, M.H., Shine, H.D.
Expression of Constitutively Active Akt Regulates Morphology of Sensory Neurons

PTW4-03 Seifert, J.L., Hynds, D.L.
Activation of RHO GTPases In neuronal growth cones in response to excitatory and inhibitory extracellular cues

PTW4-04 Gallo, G.,
Axonal transport of actin in non-filamentous form

PTW4-05 Lee, J.A., Lau, A., Ku, L., Feng, Y.
FRMP Regulates MAP1B-based Cytoskeletal Dynamics in Growth Cone Development

PTW4-06 Funchal, C., Santos, A.Q., Jacques-Silva, M.C., Zamoner, A., Gottfried, C., Wajner, M., Pessoa-Pureur, R.
Effect of the branched-chain alpha-keto acids accumulating in maple syrup urine disease on GFAP phosphorylation and reorganization

PTW4-07 Sobol, C.V., Belostotskaya, G.B.
Neurons activation and PC-12 differentiation upon application of probiotic product

PTW4-08 Huang, D., Brady, S.T., Gould, R.M.
Kinesin light chain isoforms in rat and spiny dogfish

PTW4-09 Sabri, M.I., Hashemi, S., Tshala-Katumbay, D.D., Palmer, V., Pounds, J., Spencer, P.S.
Protemic approaches to mechanism of axonopathy induced by alipathic and aromatic gamma-diketones

PTW5-01 Dore-Duffy, P., Wang, X.
The role of TWEAK in the CNS microvascular pericyte response to hypoxia

PTW5-02 Kaminska, B., Zawadzka, M., Sliwa, M., Szadujkis, B.
Neuroprotective immunosuppressant FK506 inhibits activation of microglia by interference with signalling pathways

PTW5-03 Sundaresan, R., Satriotomo, I., Bowen, K., Vemuganti, R.
Prevention of transient middle cerebral artery occlusion-induced inflammation and infarction by PPAR-g agonist treatment in SHR rats

PTW5-04 Cho, S., Liu, D., Wood, A., Reinhart, P., Pangalos, M., Bingham, B.
Ischemia-induced neurogenesis is mediated by increases in stem cell proliferation, migration, and neuronal differentiation

PTW5-05 Yan, Y.P., Sailor, C.A., Vemuganti, R., Dhodda, V., Dempsey, R.J.
Insulin-Like Growth Factor-1 Is an Endogenous Mediator of Focal Cerebral Ischemia-Induced Neural Progenitor Proliferation

PTW5-06 Satriotomo, I., Bowen, K., Kalluri, H., Vemuganti, R.
Activation of JAK-STAT signal transduction following focal cerebral ischemia

PTW5-07 Luo, J., Chen, H., Kintner, D.B., Shull, G.E., Sun, D.
Decreased Neuronal Death in Na+/H+ Exchanger Isoform 1 null Mice Following in vitro and in vivo Ischemia

PTW5-08 McKenna, M.C., Lindauer, S.L., Bamford, P., Hopkins, I.B.
H-NMR studies of metabolic alterations in 10-day-old hypoxic/ischemic rat brain

PTW5-09 Alano, C.C., Ying, W., Swanson, R.A.
Tricarboxylic acid substrates prevent mitochondrial failure in PARP1 cytotoxicity

PTW5-10 Song, C.W., Kim, J.G., Yeom, Y.N., Hwang, M.S., Kim, J.H., Koh, S.H., Kim, Y.S., Kim, O.H., Jang, D.D., Kim, S.H.
The change of focal ischemic injured effect after permethrin treated rats

PTW5-11 Zheng, Z., Qiao, Y., Dunphy, N., Ma, J., Lee, J.E., Yenari, M.A.
Overexpression of HSP70 inhibits ischemia-induced inflammation in experimental stroke

Continued

Authors Present 1:30—2:30

Continued

1:30 pm—2:45 pm **Grand Terrace/Ballroom A**

PTW5-12 Gill, M.B., Hu, X., Perez-Polo, J.R.
Mitochondrial and ER upregulation of Bax in Hypoxia-Ischemia treated P7 Wistar rat pups

PTW5-13 Tang, X.N., Qiao, Y., Xu, L. , Giffard, R., Yenari, M.A.
Microglia enhance blood-brain barrier disruption

PTW5-14 Ling, C., Suresh, M., Sandor, M., Fabry, Z.
CD8 T cells prefer to localize to their antigen-containing site but migrate to traumatic injuries in the CNS

PTW5-15 Yi, J., Herrero, R., Danbolt, N.C., Hazell, A.S.
Upregulation of the EAAT4 glutamate transporter in rat forebrain after traumatic brain

PTW6-01 Rea Fureigh, K.L., Nauman, E.A., Lewus, K.E.
Development and Characterization of a Three-Dimensional Model of the Substantia Nigra for Use in the Study of Parkinson's Disease

PTW6-02 Vatassery, G.T., Smith, W.E., Quach, H.T.
Modulation of the effects of L-dopa on PC12 cells by vitamins C and E

PTW6-03 Malecki, E.A., Reich, S.G., Moliterno, A.R., Corse, A.M., Lee, L.A., Vogelsang, G.B.
Manganese-Induced Parkinsonism from Total Parenteral Nutrition: Report of a Case and Review of the Literature.

PTW6-04 Hazell, A.S., Gros, P., Normandin, L., Yi, J.H.
Focal accumulation of manganese is correlated with levels of the divalent metal transporter-1 in manganese neurotoxicity

PTW6-05 Huang, Y.L., Huang, Y.L.
Neuronal Nitric Oxide Synthase In Epileptic Fowl

PTW6-06 Schengrund, C.L., Rosa Borges, A.O., Puri, A., Blumenthal, R., Krebs, F.C., Johnson, B.T., Rawat, S.S.
Abstract title Glycosphingolipids - Portals for Infection

PTW6-07 Yao, H.Y., Wen, F., Sun, Y.
Erythropoietin and the Pathogenesis Of Cerebral Palsy

PTW6-08 Wen, F., Zeng, F., Yu, S.Z., Wan, J.C.
Study on nitric oxide and cytology in cerebrospinal fluid from patients with neurocysticercosis

PTW6-09 Dwivedi, Y.,
Neurotrophins in Postmortem Brain of Suicide Vicitms

PTW6-10 Li, W., Esposito, D., Burgess, D., Barnes, A., Creighton, J., Sacktor, N., McArthur, J., Nath, A.
Increased 3-nitrotyrosine modification of proteins in CSF of HIV patients with active dementia and IV drug abusers

PTW6-11 Calkins, M., Jakel, R.J., Johnson, D.A., Johnson, J.A.
Protection from mitochondrial complex II inhibitors by Nrf2-mediated transcription

PTW6-12 Schweitzer, E.S., Wu, J., Aiken, C.T.
Lithium prevents enhanced transmitter release and cell death caused by expanded repeat huntingtin

PTW6-13 Kraft, A.D., Lee, J.M., Johnson, J.A.
Nrf2 KO mice display a perturbed neural cell damage response which sensitizes them, increasing kainate excitotoxicity severity

PTW6-14 Moser, H.W., Cox, C., Dubey, P., Raymond, G.V., Loes, D.J., Moser, A.B.
Cognitive Function in Asymptomatic X-Linked Adrenoleukodystrophy Patients

PTW6-15 Chen, J., Wen, F., Wang, Q.
Study of quantitative detection Mycobacterium tuberculosis in cerebrospinal fluid using TaqMan-PCR technique

PTW6-16 Chen, J., Wen, F., Wang, Q.
PCR-molecular beacon assay for detecting Mycobacterium tuberculosis in cerebrospinal fluid

PTW7-01 Gavrilyuk, V., Sharp, A., Lin, S., Polak, P., Feinstein , D.L.
Astrocytic PPARg is not necessary for protective effects in EAE

PTW7-02 Nelson, J., Kinra, T.D., Becker-Catania, S. , Feinstein, D., DeVries, G.H., Kennett, R.H.
Anti-axolemma antibodies in experimental allergic encephalomyelitis and multiple sclerosis

PTW7-03 Lalive, P.H., Menge, T., Hauser, S.L., Genain, C.G.
Serum Neuronal Toxicity in Multiple Sclerosis

PTW7-04 Lalive, P.H., Menge, T., Hauser, S.L., Genain, C.P.
Serum IgG reactivity against MOG-transfected cells is selectively increased in specific clinical subtypes of multiple sclerosis

PTW7-05 Dutta, R., Torres, T., McDonough , J., Trapp, B.D.
CNTF induces an Anti-apoptotic response in non-lesion motor cortex of MS patients

PTW7-06 Wang, Q., Wen, F.
A study of nitric oxide in cerebrospinal fluid of patients with inflammatory demyelinating disease

PTW7-07 Wilkins, A., Compston, A., Duncan, I.
Axonal degeneration in the taiep rat

PTW7-08 Crocker, S.J., Lin, W., Frausto, R.F., Popko, B., Whitton, J.L., Campbell, I.L.
Demyelination Induced by EAE or Cuprizone Evoke Distinct Patterns of MMP and TIMP Expression in the Central Nervous System

PTW7-09 Pfeiffer, S.E., Marta, C.B., Oliver, A.R., Sweet, R.A., Ruddle, N.H.
Encephalitogenic and non-encephalitogenic anti-MOG: Differences in determinant recognition and effects on OL physiology

Continued

Authors Present 1:30—2:30

Continued

1:30 pm—2:45 pm **Grand Terrace/Ballroom A**

PTW7-10 Campagnoni, A.T., Jacobs, E.C., Pribyl, T.M., Kampf, K., Campagnoni, C.W., Colwell, C.S., Reyes, S.D., Martin, M., Handley, V.W., Hiltner, T.D., Readhea
Region-specific myelin pathology in mice lacking the golli products of the myelin basic protein gene

PTW7-11 Kondo, Y., Duncan, I.D.
Exogenous enzyme replacement rescues mutant oligodendrocytes of the twitcher mouse and promotes their stable myelination in vivo

PTW7-12 Pasquini, L.A., Calatayud, C.A., Soto, E.F., Pasquini, J.M.
Cuprizone neurotoxicity on oligodendrocytes requires TNF alpha and IFN gamma

PTW7-13 Shukla, D.K., Kaiser, C., Stebbins, G.T., Thulborn, K.R., Feinstein, D.L.
Multi-modal imaging of Relapsing MS patients

PTW7-14 Benjamins, J.A., Nedelkoska, L.
Metabotropic Glutamate Receptors 1 and 5 Activate Protein Kinase G to Protect Against Kainate Excitotoxicity in Oligodendrocytes

PTW7-15 Connor, J.R., Zhang, X., Haaf, M., Grosstephan, E., Surguladze, N., Todoric, B.
Cytokine Toxicity To Oligodendrocytes Is Mediated By Iron

PTW8-01 Mao, J., Polak, P., Sharp, A., Wu, C., Wei, J., Gould, R.M., Wang, Y., Feinstein, D.L.
Toward In Vivo Detection of Remyelination

PTW8-02 Chen, Y., Feng, Y.
QuakingI promotes oligodendrocyte differentiation after cell cycle exit

PTW8-03 Gadea, A., Haydar, T., Aguirre, A., Gallo, V.
A novel role for endothelin 1 as a regulator of oligodendrocyte development

PTW8-04 Paez, P.M., Garcia, C.I., Soto, E.F., Pasquini, J.M.
Apotransferrin modulates MBP expression through different transcription factors in two oligodendroglial cell lines

PTW8-05 Bansal, R., Marin-Husstege, M., Bryant, M., Casaccia-Bonnefil, P.
S-phase entry of oligodendrocyte lineage cells is associated with increased levels of p21Cip1

PTW8-06 Filipovic, R., Zecevic, N.
Development of oligodendrocyte lineage in the human fetal brain is promoted by chemokine GRO-alpha: a possible mechanism

PTW8-07 Molloy, G.R., Shen, W.
Expression of brain creatine kinase increases in primary oligodendrocytes during in vitro differentiation

PTW8-08 Hao, Q., Fujita, Y., Macklin, W.B.
Differentiation of proteolipid protein-expressing cells in the developing telencephalon.

PTW8-09 Nielsen, J.A., Maric, D., Lau, P., Barker, J.L., Hudson, L.D.
Analysis of Gene Expression During the Early Stages of Oligodendrocyte Differentiation

PTW8-10 Frederick, T.J., Mitchell, N.E., Altieri, S., Wood, T.L.
Synergistic induction of cyclin D1 in OP cells by IGF-I and FGF-2 requires differential stimulation of two signaling pathways

PTW8-11 Salis, C., Urtasun, N., Soto, E.F., Pasquini, J.M., Setton-Avruj, C.P.
Schwann cells differentiation is affected by the redox state

PTW8-12 Priyadarshini, S., Flores, A.I., Macklin, W.B.
Neuregulin regulates myelination through Akt signaling in oligodendrocytes

PTW8-13 Becker-Catania, S.G., Nelson, J.K., De Vries, G.H.
Axonal Plasma Membrane Factors Modulate Oligodendrocyte Progenitor Activity

Congratulations to the following ASN 2005 Young Investigator Educational Enhancement Award Recipients

ANITEI, Mihaela - University of Connecticut
BURDO, Joe - Salk Institute
CARPENTIER, Pamela - Northwestern University
CHEN, Qin - Baylor College of Medicine
COLE, Jeffrey - Wake Forest University
DENNIS, Jameel - Virginia Commonwealth University
DOBRETSOVA, Anna - University of Arkansas
DUTTA, Ranjan - Cleveland Clinic Foundation
FILIPOVIC, Radmila - University of Connecticut
FREDERICK, Terra - Northwestern University
HAO, Qi - Cleveland Clinic Foundation
KALININ, Sergey - University of Illinois
KANJILAL, Baishali - College of Staten Island in CUNY
KARMAKER, Surajit - Medical University of S. Carolina
LEE, Hyoung-Gon - Case Western Reserve University
LI, Wenxue - Johns Hopkins University
MARTIN, Melanie - University of Winnipeg
MEHTA, Mukti - College of Staten Island in CUNY
MELCHIOR, Benoit - University of California
NARAYANAN, Subhadra - Cleveland Clinic Foundation
NAVARRETE, Ruben - Medical College of Virginia
PARHIZGAR, Susan - Texas Tech University
SAHA, Ramendra - University of Nebraska
SAMANTARAY, Supriti - Medical University of S. Carolina
SEABROOK, Timothy - Harvard University
WANG, Guanghu - Medical College of Georgia
YOU, Yimei - University of Illinois at Chicago
ZHAO, Huiwen - University of Alaska

Future ASN/ISN Meetings

ISN/ESN Biennial Meeting — Innsbruck, Austria, August 21—26, 2005

37th ASN Annual Meeting — Portland, OR, March 11—15, 2006

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

NOTES

NOTES

ASN Shuttle Bus to/from Concourse Hotel

Saturday, June 25

5:30 pm & 6:15 pm departs Concourse Hotel to Monona

8:00 pm & 8:30 pm departs Monona

Sunday, June 26

7:00 am & 7:30 am departs Concourse Hotel

7:00 pm & 7:30 pm departs Monona

Monday, June 27

7:00 am & 7:30 am departs Concourse Hotel

7:15 pm & 7:45 pm & 8:30 pm departs Monona

Tuesday, June 28

7:00 am & 7:30 am departs Concourse Hotel

5:15 pm & 6:00 pm & 6:30 pm departs Monona

Wednesday, June 29

7:00 am & 7:30 am & 7:30 pm & 8:15 departs Concourse Hotel

5:00 pm & 6:00 pm & 7:00 pm & 10:30 pm & 11:30 pm departs Monona

American Society For Neurochemistry Committees

Basic Neurochemistry–Editorial Board

George J. Siegel; Editor-in-Chief
R. Wayne Albers
Scott Brady
Donald Price

Bernard Haber Award Committee

Nicolas Bazan (Chair); 2004-2005
Bernard Agranoff; 2004-2005
Lou Sokoloff; 2004-2005
Beatrice Capputo; 2004-2007
Steve Pfeiffer; 2004-2007

Committee for the Advancement and Encouragement of Neurochemistry in Latin America (CAENLA)

Oscar Bizzozero (Chair); 2004-2007
Marta Antonelli; Argentina; 2004-2007
Nicolas Bazan; Argentina; 2004-2005
Francisco Nualarta; Chile; 2004-2005
Herminia-Pasantes Morales; Mexico; 2004-2005
Georgiana Rodriguez; Argentina; 2004-2005
Guillermina Almazan; Canada; 2004-2007
Mike Collins; Cuba/USA; 2004-2007

Internet Committee

Eric Klann (Chair); 2004-2007
Steve Carroll; 2004-2007
Paula Dore-Duffy; 2004-2007
Sean Liour; 2004-2007

Finance Committee

Lynn Hudson (Treasurer); 2001-2005
Jean Merrill (Treasurer-Elect); 2005-2008
George H. DeVries
Robert Yu
David Shine
Wendy Macklin

Jordi Folch-Pi Award Committee

Joe Eichberg (Chair); 2004-2005
Eric Murphy; 2004-2007
Grace Sun; 2004-2005
Gary Gibson; 2004-2005
Robert Zand; 2004-2007
Brian Popko; 2004-2007

Marian Kies Award Committee

Rick Cohen (Chair); 2004-2007
Tony Campagnoni; 2004-2005
Patrizia Casaccia-Bonnefil; 2004-2007
Mary Pacheco; 2004-2005
Tika Beneviste; 2004-2007

Membership Committee

James Connor (Chair); 2004-2007
Carmen Sato-Bigbee; 2004-2005
Naser Muja; 2004-2007
James E. Haley; 2004-2005
Neelima Chauhan; 2004-2007

Nominating Committee

Regina Armstrong (Chair); 2004-2007
Judith Grinspan; 2004-2007
Juana Pasquini; 2004-2005
Mark DeCoster; 2004-2005
Marc Yudkoff; 2004-2005
Steve Pfeiffer; 2004-2005

Presidential Advisory Committee

Pam Knapp (Chair); 2004-2007
Minnetta Gardinier; 2004-2005
Peter Baas; 2004-2005
Tim Coetzee; 2004-2007
Cinzia Della Russo; 2004-2007
Ed Hall; 2004-2007
Jean Merrill; 2004-2007
Lucia Notterpek; 2004-2005
Terri Wood; 2004-2007
Jun Yoshino; 2004-2005
Joe Watson; 2004-2005
Robin Miskimins; 2004-2005

Publicity, Public Policy and Education Committee

Monica Carson (Chair); 2004-2005
Sandra Hewett; 2004-2007
Steve Levison; 2004-2007
Douglas Feinstein; 2004-2005
Minnetta Gardinier; 2004-2005
Wendy Macklin; 2004-2005
Mike Aschner; 2004-2007
Rashmi Bansal; 2004-2007

Standing Rules Committee

Cara-Lynne Schengrund (Chair); 2004-2005
Martha Stokely; 2004-2007
Jun Yoshino; 2004-2005
Rao Vemuganti; 2004-2005
Gibson Wood; 2004-2007
John Bigbee; 2004-2005

Young Investigator Education Enhancement Committee

Richard Quarles (Chair); 2004-2007
Govind Vattesery; 2004-2005
Susan McGuire; 2004-2007
Andrezj Wieraszko; 2004-2005

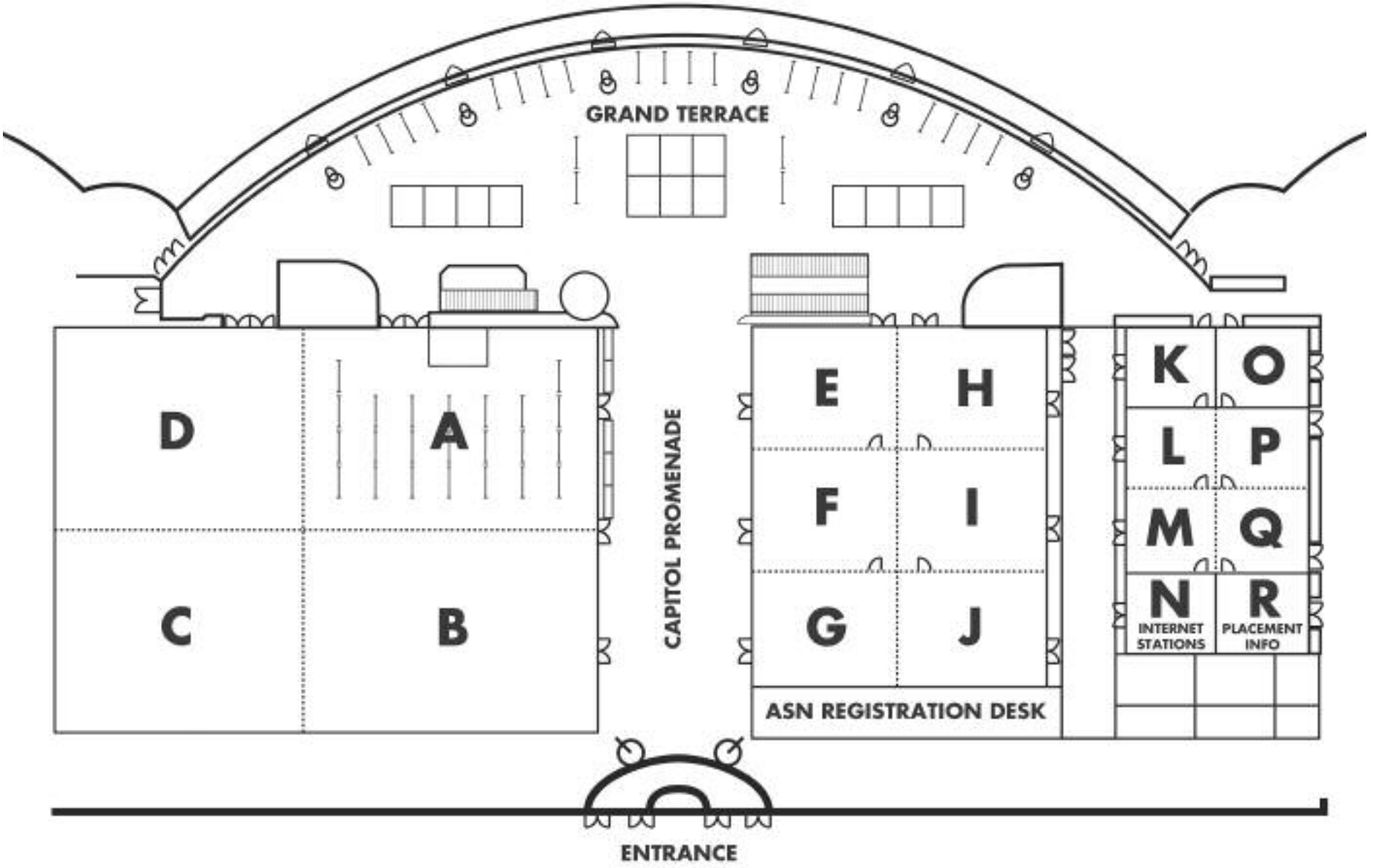
2006 Annual Meeting Program Committee

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

2006 Annual Meeting Host Committee

Mohammad Sabri (Chair)
Steve Back
Neelima Chauhan
Richard Jones
Malcom Low
Helina Offner
Peter Spencer
Desire Tshala-Katumbay
Govind Vatassery

Monona Terrace Meeting Rooms



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