



# AMERICAN SOCIETY FOR NEUROCHEMISTRY

*The Latest in Molecular and Cellular Neurobiology*

## 35<sup>th</sup> Annual Meeting

Waldorf-Astoria Hotel  
New York City

August 14 – 18, 2004

# WELCOME



[www.ASNeurochem.org](http://www.ASNeurochem.org)



## AMERICAN SOCIETY FOR NEUROCHEMISTRY

### Officers of the American Society of Neurochemistry

President - George H. DeVries, Hines, IL  
Past President - Robert Yu, Augusta, GA  
Secretary - David Shine, Houston, TX  
Treasurer - Lynn Hudson, Bethesda, MD  
President Elect - Wendy Macklin, Cleveland, OH

### Members of the Council

Monica J. Carson (2001—2005)	Minnetta Gardinier (2001—2005)	Steven W. Levison (2001—2005)
Karen Chandross (2003—2007)	Alexander Gow (2001—2005)	Mary C. McKenna (2001—2005)
Ian D. Duncan (2001—2005)	Sandra Hewett (2003—2007)	J. Regino Perez-Polo (2001—2005)
Douglas Feinstein (2003—2007)	Pamela Knapp (2003—2007)	Mark Smith (2003—2007)

### Alternate to the Council

Richard C. Wiggins (2001—2005)  
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### 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

Bob Ledeen, Chair	Sandra Hewett	Eric Simon
George H. DeVries (Ex Officio)	Nick Ingoglia	Greg Sutcliffe
Narin Banik	Abel Lajtha	Frank Tarazi
Karen Chandross	Mark Mattson	Gusheng Wu
Ian Creese	Bruce McEwen	Robert Yu
Jim Haley	Jim Schwartz	

### New York Host Committee

Robert Gould, Chair	Heather Duffy	Henri Tiedge
Richard Ambron	Marie Filbin	Carmen Violetta-Melendez
Elimor Brand-Scheiber	Steve Moorman	
Patricia Casaccia-Bonofil	Jim Salzer	



**Friday, August 13**

3:00 pm – 7:00 pm ASN Registration Desk Open Waldorf Lobby

**Saturday, August 14**

7:00 am – 6:00 pm ASN Registration Desk Open Silver Corridor  
8:30 am – 5:00 pm RNA Interference Workshop Jade Room  
3:00 pm – 6:00 pm ASN Council Meeting I\* Park Ave N Room  
6:30 pm – 8:30 pm ASN Welcome Reception Starlight Roof

**Sunday, August 15**

7:00 am – 6:00 pm ASN Registration Desk Open Silver Corridor  
8:00 am – 5:00 pm Coffee & Conversation Room Cole Porter Room  
8:15 am – 5:30 pm ASN Annual Meeting Sessions 3<sup>rd</sup> Floor  
12:30 pm – 1:30 pm Meet the Speakers Luncheons 18<sup>th</sup> Floor  
1:30 pm – 3:30 pm Poster Presentations & Visit Exhibitors Foyer/Basildon Room  
1:45 pm – 3:15 pm Oral Presentations Louis XVI Room  
6:00 pm – 7:30 pm Public Outreach Forum on MS Astor Room  
6:30 pm – Student/Post Doc Dinner Marion's in Village  
Transportation provided from 49<sup>th</sup> St. Garage Entrance

**Monday, August 16**

7:00 am – 5:00 pm ASN Registration Desk Open Silver Corridor  
6:45 am – 8:00 am ASN Council Meeting II\* Park Ave N Room  
8:00 am – 5:00 pm Coffee & Conversation Room Cole Porter Room  
8:15 am – 5:30 pm ASN Annual Meeting Sessions 3<sup>rd</sup> Floor  
9:30 am – 4:00 pm Guest Tour of NYC Depart Lobby  
12:15 pm – 1:30 pm Meet the Speakers Luncheons 18<sup>th</sup> Floor  
12:45 pm – 2:00 pm Neurochemical Research Editorial Board\* Mr. K's Restaurant  
1:30 pm – 3:30 pm Poster Presentations & Visit Exhibitors Foyer/Basildon Room  
1:45 pm – 3:15 pm Oral Presentations Louis XVI Room  
5:45 pm – 7:00 pm Women In Neurochemistry Reception/Panel Duke of Windsor Room

**Tuesday, August 17**

7:00 am – 5:00 pm ASN Registration Desk Open Silver Corridor  
8:00 am – 5:00 pm Coffee & Conversation Room Cole Porter Room  
8:15 am – 5:30 pm ASN Annual Meeting Sessions 3<sup>rd</sup> Floor  
12:15 pm – 1:30 pm Meet the Speakers Luncheons 18<sup>th</sup> Floor  
1:30 pm – 3:30 pm Poster Presentations & Visit Exhibitors Foyer/Basildon Room  
1:45 pm – 3:15 pm Oral Presentations Louis XVI Room  
5:45 pm – 7:00 pm ASN Business Meeting—All Members Invited Jade Room  
7:00 pm – 7:30 pm Tribute to Pierre Morell Jade Room  
7:00 pm – 9:00 pm Handbook of Neurochemistry Editorial Board\* San Martin Restaurant

**Wednesday, August 18**

7:00 am – 4:00 pm ASN Registration Desk Open Silver Corridor  
8:00 am – 4:00 pm Coffee & Conversation Room Cole Porter Room  
8:00 am – 9:45 am Poster Presentations & Visit Exhibitors Foyer/Basildon Room  
8:15 am – 9:45 am Oral Presentations Louis XVI Room  
10:00 am – 4:45 pm ASN Annual Meeting Sessions 3<sup>rd</sup> Floor  
11:30 am – 1:30 pm ASN Council Meeting III\* Park Ave N Room  
1:30 pm – 2:30 pm Meet the Speakers Luncheons 18<sup>th</sup> Floor  
7:00 pm ASN Farewell Summer BBQ Tavern on the Green  
Transportation provided from 49<sup>th</sup> St. Garage Entrance

\*Indicates private function



## Sunday, August 15, 2004

7:00 am – 6:00 pm	ASN Registration Desk Open	Silver Corridor
8:00 am – 5:00 pm	Coffee & Conversation Room	Cole Porter Room
8:15 am – 8:45 am	Opening Remarks George H. DeVries, President Robert Ledeen, Chair, Program Committee	Grand Ballroom
8:45 am – 9:45 am	Basic Neurochemistry Lecture Dr. Bruce McEwen What the Gonads and Adrenals Tell the Brain... and Why	Grand Ballroom
9:45 am – 10:15 am	Exhibits/Posters	East Foyer/Basildon
10:15 am – 12:15 pm	Concurrent Symposiums:	

Louis XVI Room	Jade Room	Astor Room
<p><b>Symposium 1</b>  <b>LIPID RAFTS IN NEURAL PLASTICITY AND DISEASE</b>            Organizer: Mark Mattson</p> <p><b>S1-01</b> Dobrowsky, R.T.            DIABETES DECREASES EXPRESSION OF CAVEOLINS IN SCHWANN CELLS OF DIABETIC NERVE</p> <p><b>S1-02</b> Pierchala, B.A.            LIPID RAFTS IN RET SIGNAL TRANSDUCTION</p> <p><b>S1-03</b> Mattson, M.P.            RAFT LIPID ABNORMALITIES, OXIDATIVE STRESS AND NEURODEGENERATIVE DISORDERS</p> <p><b>S1-04</b> Fon, E.A.            SYNAPTIC RAFT-ASSOCIATED PDZ PROTEINS AND UBIQUITINATION IN PARKINSON'S DISEASE</p>	<p><b>Symposium 2</b>  <b>CYTOSKELETAL MECHANICS AND AXONAL GROWTH</b>            Organizer: Peter Baas</p> <p><b>S2-01</b> Heidemann, S.R.            MECHANICAL TENSION AND AXONAL DEVELOPMENT</p> <p><b>S2-02</b> Baas, P.W.            CYTOPLASMIC DYNEIN TUGS MICROTUBULES IN THE NEURON</p> <p><b>S2-03</b> Zheng, J.Q.            LOCAL MICROTUBULE DYNAMICS AND DIRECTIONAL STEERING OF NERVE GROWTH CONES</p> <p><b>S2-04</b> Gallo, G.            ROCK AND MYOSIN II ARE REQUIRED FOR AXON CONSOLIDATION</p>	<p><b>Symposium 3</b>  <b>THE NEUROCHEMISTRY OF IONOTROPIC RECEPTOR TRAFFICKING</b>            Organizer: Claude Wasterlain</p> <p><b>S3-01</b> Zukin, R.S.            REGULATION OF NMDA RECEPTOR TRAFFICKING AND GATING</p> <p><b>S3-02</b> Wasterlain, C. G.            NMDA RECEPTOR TRAFFICKING DURING EPILEPTIC SEIZURES</p> <p><b>S3-03</b> Moss, S.J.            THE REGULATION OF GABASUBA RECEPTOR CELL SURFACE STABILITY</p> <p><b>S3-04</b> Olsen, R.W.            GABARAP PROMOTES GABA-A RECEPTOR TRAFFICKING AND CELL SURFACE EXPRESSION</p> <p><b>S3-05</b> Naylor, D.E.            POSTSYNAPTIC GABA<sub>A</sub> RECEPTOR INTERNALIZATION CONTRIBUTES TO A LOSS OF SYNAPTIC INHIBITION DURING STATUS EPILEPTICUS</p>



## Sunday, August 15, 2004

12:30 pm – 1:30 pm	Meet the Speakers Luncheons	18th Floor
1:30 pm – 3:30 pm	Poster Presentations & Visit Exhibitors Posters Listed on Pages 5—7	Foyer/Basildon Room
1:45 pm – 3:15 pm	Oral Presentations	Louis XVI Room

### MYELIN, OLIGODENDROCYTE, AND SCHWANN CELL BIOLOGY

Organizer: Karen Chandross

**OR1-01** Saini, H.S.

NOVEL ROLE OF SPHINGOSINE-1-PHOSPHATE AS A MEDIATOR OF NEUROTROPHIN-3 SIGNALING IN OLIGODENDROCYTES

**OR1-02** Paintlia, M.K.

NAC PREVENTS ENDOTOXIN INDUCED LOSS OF OPC IN FETUS AND HYPOMYELINATION IN POSTNATAL RAT BRAIN

**OR1-03** Gong, Y.

MYELIN LIPID RAFTS TRANSMIT SIGNALS FOLLOWING TRANS-INTERACTION WITH SULFATIDE

**OR1-04** Martin, M.

T2-WEIGHTED *IN VIVO* MRI AND VISUALLY EVOKED POTENTIAL MEASUREMENTS DURING THE DEVELOPMENT OF MBP::J37 TRANSGENIC MICE

**OR1-05** Amici, S.A.

ALTERED SCHWANN CELL-EXTRACELLULAR MATRIX INTERACTIONS IN PERIPHERAL MYELIN PROTEIN 22 DEFICIENT MOUSE NERVES

**OR1-06** Thomas, S.L.

ANGIOGENIC EXPRESSION PROFILE OF NEUROFIBROMIN-DEFICIENT SCHWANN CELLS AND REGULATION BY NEUROFIBROMIN ACTIVITY

## Young Latin American Scholar Awards Congratulations to the 2004 Award Winners!

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

Virginia Gabriela Barros – Argentina  
Pedro Alejandro Bekinschtein – Argentina  
Karina Lorena De Moliner – Argentina  
Esteban Horacio Ortiz – Argentina  
Irmgard Blanca Paris Pizzaro – Chile  
Carla Ines Tasca – Brazil



## Sunday, August 15, 2004

3:30 pm – 5:30 pm

Concurrent Workshop & Symposiums:

Louis XVI Room	Jade Room	Astor Room
<p><b>Workshop 1</b>  <b>GLUTAMATE, THE MOST PROMISCUOUS MOLECULE IN THE CNS</b>  Organizers: Mary McKenna &amp; Helle Waagepetersen</p> <p><b>W1-01</b> Alano, C.C.  METABOLIC CONSEQUENCES OF GLUTAMATE RECEPTOR ACTIVATION</p> <p><b>W1-02</b> Takano, T.  ASTROCYTIC CA<sup>2+</sup>-SIGNALING CAUSES A TRANSIENT CELL VOLUME INCREASE AND EFFLUX OF GLUTAMATE VIA VOLUME SENSITIVE CHANNELS</p> <p><b>W1-03</b> Zielke, H.R.  MECHANISMS OF EXTRACELLULAR GLUTAMATE FORMATION IN BRAIN</p> <p><b>W1-04</b> LaNoue, K.F.  WHY THE RETINAL MÜLLER CELLS PREFER GLYCOLYSIS</p> <p><b>W1-05</b> McKenna, M.C.  FUNCTIONAL IMPLICATIONS OF GLUTAMATE COMPARTMENTATION WITHIN ASTROCYTES AND NEURONS</p> <p><b>W1-06</b> Waagepetersen, H.S.  INTER- AND INTRACELLULAR METABOLIC COMPARTMENTATION IN GLUTAMATE HOMEOSTASIS</p> <p><b>W1-07</b> Norenberg, M.D.  GLUTAMINE: A TROJAN HORSE IN THE MECHANISM OF AMMONIA NEUROTOXICITY</p>	<p><b>Symposium 4</b>  <b>AGING-ASSOCIATED COGNITIVE DYSFUNCTION: COPING WITH PERTURBATIONS TO HOMEOSTASIS</b>  Organizer: Regino Perez-Polo</p> <p><b>S4-01</b> Mattson, M. P.  NEUROHORMESIS: MECHANISMS AND IMPLICATIONS FOR COGNITIVE IMPAIRMENT IN AGING</p> <p><b>S4-02</b> Perez-Polo, J.R.  EFFECTS OF AGING ON CELL SURVIVAL RESPONSES TO TRAUMA IN CNS</p> <p><b>S4-03</b> Joseph, J.A.  ABSTRACT TITLE MULTIPLE EFFECTS OF FRUITS AND VEGETABLES IN NEURONAL AND BEHAVIORAL AGING</p> <p><b>S4-04</b> Rossner, S.  MUNC13-1 - A NOVEL MODULATOR OF SECRETORY APP PROCESSING</p>	<p><b>Symposium 5</b>  <b>THE ROLE OF COMPLEMENT IN THE BRAIN: THE GOOD AND THE BAD</b>  Organizers: Jessy Alexander &amp; Scott Barnum</p> <p><b>S5-01</b> Morgan, B.P.  COMPLEMENT IN BRAIN INFLAMMATION AND DEMYELINATION: LESSONS FROM KNOCKOUTS</p> <p><b>S5-02</b> Fodor, W.L.  THE ROLE OF COMPLEMENT IN MODELS OF NEURAL CELL TRANSPLANTATION</p> <p><b>S5-03</b> Alexander, J.J.  ABSENCE OF A FUNCTIONAL ALTERNATIVE PATHWAY AFFORDS PROTECTION IN LUPUS CEREBRITIS</p> <p><b>S5-04</b> Stahel, P.F.  THE ROLE OF COMPLEMENT-MEDIATED NEUROINFLAMMATION IN TRAUMATIC BRAIN INJURY</p> <p><b>S5-05</b> Barnum, S.R.  DELETION OF THE COMPLEMENT C3BI RECEPTOR, CD11B, SIGNIFICANTLY ATTENUATES EAE</p>

6:00 pm – 7:30 pm

Public Outreach Forum on Multiple Sclerosis, co-sponsored by NY Chapter, National MS Society.

Astor Room

Organizer: Monica Carson  
Speakers: Stuart Cook, Ian Duncan, Timothy Coetzee  
Current and Future Directions in Research/Treatment, and Clinical Trials. Panel Discussion and Q&A.

6:30 pm

Student/Postdoc Dinner  
Transportation provided from 49<sup>th</sup> St. Garage Entrance

Marion's in Village

1:30 pm – 3:30 pm Posters – Sunday, August 15 Foyer/Basildon

**AP01-01** Cereseto, M.  
CYTOSKELETAL CHANGES IN  
HIPPOCAMPUS AFTER CHRONIC  
TREATMENT WITH HIGH LEVELS  
OF CORTICOSTERONE

**AP01-02** Livingston, D.L.  
ESTRADIOL REGULATES BDNF  
EXPRESSION IN HIPPOCAMPAL  
ASTROCYTES

**AP01-03** Sribnick, E.A.  
ESTROGEN ATTENUATES  
INFLAMMATION AND LESION  
VOLUME FOLLOWING ACUTE  
SPINAL CORD INJURY IN RATS

**AP01-04** Syapin, P.J.  
5 $\alpha$ AR EXPRESSION AND  
STEROIDOGENIC ACTIVITY IN  
HUMAN ASTROGLIA

**AP2-01** Spagnolo, A.  
THIAZOLIDINEDIONES REDUCE  
GLIOMA CELL GROWTH IN VITRO  
AND IN VIVO

**AP2-02** Ortega Gomez, A  
ALTERATIONS OF THE  
CYTOSKELETON DURING  
APOPTOTIC DEATH OF  
CULTURED CEREBELLAR  
GRANULE NEURONS

**AP2-03** Liu, B.  
SINGLE CELL RT-PCR  
DEMONSTRATES DIFFERENTIAL  
EXPRESSION OF GABAC  
RECEPTOR RHO SUBUNITS IN  
RAT HIPPOCAMPAL PYRAMIDAL  
AND GRANULE CE

**AP2-04** Wang, C.  
THE ROLE OF NMDA RECEPTORS  
IN KETAMINE-INDUCED APOPTO-  
SIS IN RAT FOREBRAIN CULTURE

**AP2-05** Almaguel, F.  
PALMITIC ACID-INDUCED CELL  
DEATH IN NGF DIFFERENTIATED  
PC12 CELLS ACTIVATES THE  
EXTRINSIC AND INTRINSIC  
APOPTOTIC PATHWAYS

**AP2-06** Chen, G.G.  
ALTERATION OF RESPONSE TO  
CELL DEATH STIMULATION IN  
GLIOBLASTOMA CELLS  
DEFICIENT IN DNA-DEPENDENT  
PROTEIN KINASE

**AP2-07** Nielsen, J.A.  
A POTENTIAL CELL SURVIVAL  
FUNCTION FOR THE LAG GENE

**AP2-08** Jacobs, O.A.  
INHIBITION OF P53-INDEPENDENT  
RADIATION TOXICITY IN CG-4  
GLIAL PROGENITORS BY FGF-2  
AND SYNTHETIC FGF ANALOGS

**AP2-09** Mungre, S.  
METAL ION INDUCED APOPTOSIS:  
DOES SAFFRON PROTECT  
AGAINST IT?

**AP2-10** Goswami, R.  
CELL DEATH IS INITIATED IN  
RAFTS AND INVOLVES NEUTRAL  
SPHINGOMYELINASE

**AP2-11** Sharma, R.  
CASPASE-12 AND  
NEURODEGENERATION

**AP2-12** Das, A.  
APIGENIN, GENISTEIN,  
AZADIRACHTIN A,  
(-)-EPIGALLOCATHECIN, OR  
(-)-EPIGALLOCATHECIN GALLATE  
INDUCED APOPTOSIS IN SH-SY5Y  
CELLS

**AP2-13** Ray, S.K.  
STEROIDAL AND  
NON-STEROIDAL  
ANTI-INFLAMMATORY AGENTS  
ATTENUATE APOPTOSIS IN C6  
GLIOBLASTOMA CELLS UNDER  
OXIDATIVE STRESS

**AP2-14** Loladze, V.V.  
MECHANISMS OF  
GLUTAMATE-EXCITOTOXIC  
DEATH AND IGF-I PROTECTION  
IN LATE OLIGODENDROCYTE  
PROGENITORS

**AP2-15** Weihai Ying  
ADENINE PREVENTS POLY  
(ADP-RIBOSE) POLYMERASE-1-  
MEDIATED DEATH OF NEURONS  
AND ASTROCYTES

**AP3-01** Bersier, M.G.  
ENDOBAIN E, AN ENDOGENOUS  
NA/K-ATPASE INHIBITOR, AND  
ASCORBIC ACID ENHANCE  
NEUROTRANSMITTER RELEASE  
FROM SYNAPTOSOMES

**AP3-02** Sitges, M.  
CHARACTERIZATION OF THE  
PARTICIPATION OF SODIUM  
CHANNELS ON THE RISE IN NA<sup>+</sup>  
INDUCED BY 4-AMINOPYRIDINE  
(4-AP) IN SYNAPTOSOMES

**AP3-03** Fiszman, M.L.  
NMDA RECEPTOR ACTIVATION  
PROMOTES THE MATURATION OF  
THE PRESYNAPTIC GABAERGIC  
TERMINALS AND INCREASES  
GABA RELEASE

**AP3-04** Westphalen, R.I.  
SELECTIVE DEPRESSION BY  
ABUSED INHALANTS OF GABA  
VERSUS GLUTAMATE RELEASE  
FROM RAT CORTICAL  
SYNAPTOSOMES

**AP4-01** Zaitseva, T.  
EFFECTS OF ISCHEMIA AND  
HYPOXIA ON LEVELS OF  
PHOSPHORYLATED CYCLIC AMP  
RESPONSE BINDING PROTEIN IN  
STRIATUM

**AP4-02** Fiskum, G.  
NORMOXIC RESUSCITATION  
AFTER CARDIAC ARREST  
REDUCES HIPPOCAMPAL  
OXIDATIVE STRESS AND  
NEURONAL DEATH

**AP4-03** Platholi, J.  
REGULATION OF A PROTEIN  
PHOSPHATASE-11 COMPLEX IN  
GLOBAL CEREBRAL ISCHEMIA

**AP4-04** Jatana, M.  
INHIBITION OF 5-LIPOXYGENASE  
PROTECTS BRAIN FROM INJURY  
IN A RAT MODEL OF TRANSIENT  
FOCAL CEREBRAL ISCHEMIA

**AP4-05** Khan, M.  
ADMINISTRATION OF  
N-ACETYLCYSTEINE AFTER  
FOCAL CEREBRAL ISCHEMIA  
PROTECTS BRAIN IN A RAT  
MODEL OF EXPERIMENTAL  
STROKE

*Continued*



Continued

1:30 pm – 3:30 pm Posters – Sunday, August 15 Foyer/Basildon

**AP4-06** Guo, G.  
GLUTAMATE RELEASE AND  
HYPOXIA-INDUCED  
MOTONEURONAL CELL DEATH

**AP4-07** Fiszler de Plazas, S.  
DIFFERENTIAL JNK, P38 AND ERK  
RESPONSE IN A PRENATAL ACUTE  
HYPOXIA MODEL

**AP4-08** Hu, X.  
IL-1 ACTIVATION OF NF-KAPPAB  
SIGNALING PATHWAY IN  
NEONATAL RAT AFTER  
HYPOXIA/ISCHEMIA

**AP5-01** Hazell, A.S.  
INVOLVEMENT OF OXIDATIVE  
STRESS IN ASTROCYTIC  
CHANGES IN EXPERIMENTAL  
SUB-ACUTE MANGANESE  
NEUROTOXICITY

**AP5-02** Tasca, C.I.  
ERK-2 AND P38<sup>MAPK</sup> PATHWAYS  
ARE INVOLVED ON  
GLUTAMATE-INDUCED CELL  
DAMAGE IN HIPPOCAMPAL  
SLICES

**AP5-03** Pelligrino, D.A.  
ESTROGEN REPLACEMENT  
THERAPY IN DIABETIC FEMALE  
RATS IS ASSOCIATED WITH  
INCREASED AGE/RAGE  
EXPRESSION IN THE BRAIN

**AP5-04** Pelligrino, D.A.  
ESTROGEN REPLACEMENT  
THERAPY IN DIABETIC FEMALE  
RATS EXACERBATES  
POST-ISCHEMIC INFLAMMATORY  
ACTIVITY IN THE BRAIN VIA  
RAGE

**AP5-05** Méndez-Álvarez, E.  
THE ROLE OF ALUMINUM ON  
OXIDATIVE STRESS INDUCED BY  
6-HYDROXYDOPAMINE IN THE  
PRESENCE OF IRON: MEDIATION  
OF ASCORBATE

**AP5-06** Blasina, M.F.  
PC12 PROTECTION AGAINST  
HYDROGEN PEROXIDE INDUCED  
CELL DEATH: ROLE OF  
AHYROCLINE SATUREIODES

**AP5-07** Paris, I.  
ON THE MECHANISM OF  
DOPAMINE-DEPENDENT COPPER  
TOXICITY

**AP5-08** Burdo, J.R.  
HFE EXPRESSION IN THE RAT  
BRAIN

**AP5-09** Szumlinski, K.K.  
ACTIVE ROLE FOR HOMER  
PROTEINS IN BEHAVIOURAL  
AND NEUROCHEMICAL  
SENSITIZATION TO COCAINE.

**AP5-10** Hoyt, K.R.  
EFFECT OF NITROTYROSINE  
ON DOPAMINE INDUCED  
NEURODEGENERATION IN VITRO

**AP5-11** Obrietan, K.  
ACTIVITY-DEPENDENT  
NEUROPROTECTION AND CREB:  
KINASE COUPLING, STIMULUS  
INTENSITY, AND TEMPORAL  
REGULATION OF CREB  
PHOSPHORYLATION

**AP5-12** Yenari, M.A.  
MINOCYCLINE PROTECTS  
AGAINST ISCHEMIA-LIKE INSULTS  
INDEPENDENT OF MICROGLIAL  
ACTIVATION

**AP5-13** Kodavanti, P.R.,  
EFFECTS OF POLYBROMINATED  
DIPHENYL ETHERS ON INTRACEL-  
LULAR CALCIUM BUFFERING IN  
RAT CEREBELLUM, FRONTAL  
CORTEX, AND HIPPOCAMPUS

**AP5-14** Giffard, R.G.  
PROTECTION BY HSP70  
OVER-EXPRESSION IS ASSOCIATED  
WITH MAINTENANCE OF  
ASTROCYTE MITOCHONDRIAL  
FUNCTION DURING GLUCOSE  
DEPRIVATION

**AP5-15** Garner, D.P.  
CALPEPTIN PREVENTED  
APOPTOSIS IN RAT RETINAL  
GANGLION CELL LINE RGC-5  
EXPOSED TO IONOMYCIN AND  
IFN- $\gamma$

**AP5-16** Banik, N.L.  
CALPAIN INHIBITION PROVIDED  
FUNCTIONAL NEUROPROTEC-  
TION IN VSC4.1 MOTONEURONS  
EXPOSED TO GLUTAMATE

**AP5-17** Sribnick, E.A.  
FUNCTIONAL NEUROPROTEC-  
TION WITH ESTROGEN IN RAT  
PRIMARY CORTICAL NEURONS  
EXPOSED TO GLUTAMATE

**AP5-18** Tshala-Katumbay, D.D.  
STRUCTURAL REQUIREMENTS  
FOR HYDROCARBON  
AXONOPATHY

**AP5-19** Xu, W.  
LOCAL DELETIONS OF NEU-  
ROKININ-1 RECEPTOR-SPECIFIC  
STRIATAL INTERNEURONS PRO-  
TECT AGAINST METHAMPHETA-  
MINE-INDUCED NEUROTOXICITY

**AP5-20** Kim, Y.S.  
DIFFERENCES IN CYTOPROTEC-  
TIVE MECHANISMS BETWEEN  
HO1 AND HO2

**AP6-01** Zhuravliova, E.I.  
MANUMYCIN AND L-NAME  
CHANGE THE DIRECTION OF  
RAS-DEPENDENT DOWN-STREAM  
PATHWAYS

**AP6-02** Won, J.S.  
DUAL ROLE OF CAMP IN INOS  
EXPRESSION IN GLIAL CELLS AND  
MACROPHAGES: DIFFERENTIAL  
REGULATION OF P38 ACTIVA-  
TION AND INOS STABILITY

**AP6-03** Lee, J.K.  
ADENOSINE KINASE INHIBITOR  
ATTENUATES THE EXPRESSION  
OF INOS IN GLIAL CELLS

**AP6-04** Madrigal J, L.M.  
EFFECTS OF NORADRENALINE  
ON NEURONAL NOS2  
EXPRESSION AND NO-INDUCED  
NEUROTOXICITY

**AP6-05** Hamby, M.E.  
TRANSFORMING GROWTH  
FACTOR- $\beta$ 1 AUGMENTS NITRIC  
OXIDE SYNTHASE-2 EXPRESSION  
IN PRIMARY MOUSE  
ASTROCYTES

Continued





Continued

1:30 pm – 3:30 pm Posters – Sunday, August 15 Foyer/Basildon

AP6-06 Mercado, P.R.  
HSP90 INHIBITORS REDUCE  
CORTICAL GLIAL ACTIVATION

AP6-07 Hewett, S.J.  
THE NEUROTOXICITY OF  
NITROXYL ANION

AP7-01 Boldyrev, A.  
GLUTAMATE EFFECTS ON ROS  
LEVELS IN RODENT LYMPHOCYTES

AP7-02 Zhao, H.W.  
INTRACELLULAR [CA<sup>2+</sup>] IN  
CULTURED HIPPOCAMPAL SLICES  
OF HIBERNATING ARCTIC  
GROUND SQUIRREL

AP7-03 Berti-Mattera, L.N.  
REDUCED EXPRESSION OF  
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MECHANICAL HYPERALGESIA  
IN EXPERIMENTAL CHRONIC  
DIABETES

AP7-04 Mehta, M.  
5-HT<sub>1A</sub> RECEPTOR SIGNALING IN  
NEONATAL MOUSE BRAIN

AP7-05 Schneider, P.G.  
CENTRAL MUSCARINIC  
RECEPTORS MODULATION BY  
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AP7-06 Koulen, P.  
REGULATION OF INTRACELLU-  
LAR CALCIUM CHANNELS BY  
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AP7-07 Diaz, S.  
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MODIFIED BY MORPHINE  
WITHDRAWAL SYNDROME IN  
EITHER SEXES

AP7-08 Ying, W.  
ADENINE PREVENTS POLY  
(ADP-RIBOSE POLYMERASE-  
1-MEDIATED DEATH OF NEURONS  
AND ASTROCYTES



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**Monday, August 16, 2004**

7:00 am – 6:00 pm	ASN Registration Desk Open	Silver Corridor
8:00 am – 5:00 pm	Coffee & Conversation Room	Cole Porter Room
8:15 am – 8:30 am	Opening Remarks George H. DeVries, President Marian Kies Award—Rick Cohen, Chair	Grand Ballroom
8:30 am – 9:30 am	Plenary Lecture Dr. Susumu Tonegawa Mechanisms of Hippocampal Memory	Grand Ballroom
9:30 am – 10:00 am	Exhibits/Posters	East Foyer/Basildon

**10:00 am – 12:00 pm Concurrent Symposiums:**

Louis XVI Room	Jade Room	Astor Room
<p><b>Symposium 6</b> <i>Marian Kies Symposium:</i> <b>JUNCTIONAL COMPLEXES IN THE NERVOUS SYSTEM IN HEALTH AND DISEASE</b> Organizer: Heather Duffy</p> <p><b>S6-01</b> Duffy, H.S. <i>2003 Marian Kies Memorial Award Recipient</i> REGULATION OF CONNEXIN43 PROTEIN COMPLEXES BY INTRACELLULAR ACIDIFICATION</p> <p><b>S6-02</b> Delmar, M. MODIFICATIONS IN THE BIOPHYSICAL PROPERTIES OF CONNEXIN43 CHANNELS BY PEPTIDE OF THE CYTOPLASMIC LOOP REGION</p> <p><b>S6-03</b> Meier, C. CONNEXIN EXPRESSION IN DEVELOPING AND MATURE SCHWANN CELLS</p> <p><b>S6-04</b> Dermietzel, R. EXPRESSION OF TIGHT JUNCTION PROTEINS AT THE BLOOD-BRAIN BARRIER</p>	<p><b>Symposium 7</b> <b>REGULATION OF TRANSLATION IN SYNAPTIC PLASTICITY AND MEMORY</b> Organizer: Eric Klann</p> <p><b>S7-01</b> Landau, E.M. REGULATION OF DENDRITIC PROTEIN SYNTHESIS BY THE MTOR PATHWAY</p> <p><b>S7-02</b> Kelleher, R.J. TRANSLATIONAL CONTROL BY MAPK SIGNALING IN LONG-TERM SYNAPTIC PLASTICITY AND MEMORY</p> <p><b>S7-03</b> Klann, E. SIGNALING PATHWAYS THAT REGULATE TRANSLATION INITIATION IN HIPPOCAMPAL SYNAPTIC PLASTICITY AND MEMORY</p> <p><b>S7-04</b> Richter, J.D. PREB-MEDIATED TRANSLATION IN THE CNS</p>	<p><b>Symposium 8</b> <b>NEW ASPECTS OF GABA HOMEOSTASIS</b> Organizers: Susan Hutson &amp; Ursula Sonnewald</p> <p><b>S8-01</b> Schousboe, A. GABA TRANSPORTERS AND GABA-TRANSAMINASE: ROLES IN GABA HOMEOSTASIS AND AS DRUG TARGETS</p> <p><b>S8-02</b> Hutson, S.M. IS THERE EVIDENCE FOR THE METABOLIC THEORY OF GABAPENTIN ACTION?</p> <p><b>S8-03</b> Sonnewald, U. GABA IN CULTURED GLUTAMATERGIC NEURONS FROM CEREBELLUM</p> <p><b>S8-04</b> Martin, D.L. THE ISOFORMS OF GLUTAMATE DECARBOXYLASE AND THEIR RELATIONSHIPS TO GABAERGIC FUNCTION</p>

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1:30 pm – 3:30 pm	Poster Presentations & Visit Exhibitors Posters Listed on Pages 11–13	East Foyer/Basildon





**Monday, August 16, 2004**

**1:45 pm – 3:15 pm**

**Oral Presentations**

**Louis XVI Room**

**REGULATION OF GLUTAMATE NEUROTRANSMISSION AND CELLULAR ENERGETICS**

Organizer: Sandra Hewett

**OR2-01** Chowdhury, G.M.

INCREASE IN GLUTAMATERGIC AND GABAERGIC NEUROTRANSMISSION IN RAT CORTEX DURING POSTNATAL DEVELOPMENT

**OR2-02** Bak, L.K.

ROLES OF GLUCOSE AND LACTATE IN CEREBELLAR CELL CULTURES: ACTIVITY-INDUCED EFFECTS ON INTERMEDIARY METABOLISM

**OR2-03** Vatassery, G.T.

IRON CAUSES FUNCTIONAL DAMAGE IN VITAMIN E DEFICIENT MITOCHONDRIA

**OR2-04** Haskew-Layton, R.E.

HYDROGEN PEROXIDE POTENTIATES VOLUME REGULATED ANION CHANNELS VIA A MECHANISM INVOLVING CA<sup>2+</sup>/CALMODULIN-DEPENDENT KINASE II

**OR2-05** Sutherland, M.L.

TRAFFICKING OF EAAT2 IN ASTROGLIAL PROCESSES

**OR2-06** Liu, H.H.

HIPPOCAMPAL GLUTAMATE RECEPTOR GENE PROFILE IN RESPONSE TO CHRONIC GLUCOCORTICOID STRESS

**3:30 pm – 5:30 pm**

**Concurrent Workshop & Symposiums:**

Louis XVI Room	Jade Room	Astor Room
<p><b>Workshop 2</b>  <b>NEW THERAPIES &amp; INSIGHTS ON INHERITED NEUROLOGICAL STORAGE DISEASES</b>            Organizer: Tom Seyfried</p> <p><b>W2-01</b> Seyfried, T.N.            SUBSTRATE REDUCTION AS AN EARLY INTERVENTION THERAPY FOR BRAIN GANGLIOSIDE STORAGE DISEASE</p> <p><b>W2-02</b> Kyrkanides, S.            BETA-HEXOSAMINIDASE LENTIVIRAL VECTORS: TRANSFER INTO THE CNS VIA SYSTEMIC ADMINISTRATION</p> <p><b>W2-03</b> Tiff, C.J.            INFLAMMATION IN THE PATHOGENESIS OF GANGLIOSIDE STORAGE DISORDERS</p> <p><b>W2-04</b> Kolodny, E.H.            LATE-ONSET TAY-SACHS DISEASE: NATURAL HISTORY AND TREATMENT WITH OGT 918</p> <p><b>W2-05</b> Sidman, R.L.            TRANSPLANTATION OF MOUSE AND HUMAN NEURAL STEM CELLS INTO NEONATAL NIEMANN-PICK A MICE</p>	<p><b>Symposium 9</b>  <b>MOLECULAR CUES DIRECTING PROGENITOR CELL MIGRATION AND DIFFERENTIATION: CAN WE ENHANCE THESE PROCESSES IN THE DISEASED NERVOUS SYSTEM?</b>            Organizers: Karen Chandross &amp; Jean Merrill</p> <p><b>S9-01</b> Rowitch, D.            OLIG FUNCTION IN CNS DEVELOPMENT AND DISEASE</p> <p><b>S9-02</b> Cohen, R.I.            INHIBITORS OF OLIGODENDROCYTE PROGENITOR CELL MIGRATION</p> <p><b>S9-03</b> Goldman, S.A.            MOLECULAR DETERMINANTS OF GLIAL PROGENITOR CELL FATE IN THE ADULT HUMAN WHITE MATTER</p> <p><b>S9-04</b> Chandross, K.J.            TARGETING RESIDENT PROGENITOR CELLS IN THE ADULT BRAIN FOR REGENERATION-BASED THERAPIES</p>	<p><b>Symposium 10</b>  <b>DEGRADATION AND REPAIR OF MYELIN: ROLE OF PROTEASES AND COMPLEMENT</b>            Organizer: Carmela Abraham</p> <p><b>S10-01</b> Yong, W.            BIOLOGY OF MATRIX METALLOPROTEINASES (MMPS) IN MYELIN FORMATION</p> <p><b>S10-02</b> Banik, N.L.            ROLE OF CALPAIN IN DEMYELINATION AND NEURODEGENERATION IN EAE</p> <p><b>S10-03</b> Abraham, C.R.            ACTIVATION OF CALPAIN-1 AND THE EARLY COMPLEMENT PATHWAY IN THE BRAIN WHITE MATTER OF AGED RHESUS MONKEYS</p> <p><b>S10-04</b> Scarisbrick, I.A.            ACTIVITY OF KALLIKREIN 6 IN CNS DEMYELINATING DISEASE</p>

**5:45 pm – 7:00 pm**

**WIN Reception**

**Duke of Windsor Room**

1:30 pm – 3:30 pm Posters – Monday, August 16 Foyer/Basildon

**BP1-01** Nicoletti, V.G.  
EFFECT OF ANTIOXIDANT DIET  
ON MITOCHONDRIAL GENE  
EXPRESSION IN RAT BRAIN  
REGIONS DURING AGING

**BP1-02** Shetty, A.K.  
STEM/PROGENITOR CELL  
PROLIFERATION FACTORS FGF-2,  
IGF-1 AND VEGF EXHIBIT EARLY  
DECLINE IN THE HIPPOCAMPUS  
DURING AGING

**BP1-03** Abraham, C.R.  
TRANSCRIPTIONAL CHANGES  
IN AGED RHESUS MONKEY  
WHITE MATTER

**BP1-04** Royland, J.E.  
DIFFERENTIAL GENE EXPRESSION  
IN THE MURINE BRAIN:  
BRAIN AREA VS. AGE

**BP1-05** Salvador, G.A.  
MODULATION OF PHOSPHATIDIC  
ACID METABOLISM BY INSULIN  
IN CEREBRAL CORTEX  
SYNAPTOSOMES

**BP2-01** Ogawa, Y.  
DIVERSITY OF RADIAL GLIAL  
CELLS IS FORMED ALONG THE  
DORSO-VENTRAL AXIS IN THE  
DEVELOPING MOUSE SPINAL  
CORD

**BP2-02** De Moliner, K.  
EFFECT OF GAP-43 ON CELL  
CYCLE PROGRESSION IN NIH3T3  
CELLS STABLY TRANSFECTED

**BP2-03** Draghi, N.A.  
P190RHOGAP ACTS AS A  
TUMOR SUPPRESSOR IN GLIOMA  
FORMATION

**BP2-04** Shen, S.M.  
ROLE OF HISTONE DEACETY-  
LASES IN OLIGODENDROCYTE  
LINEAGE PROGRESSION

**BP3-01** Brenner, E.  
GLUTAMINE METABOLISM IS  
IMPAIRED IN MK-801 INDUCED  
NMDA-RECEPTOR  
HYPOFUNCTION

**BP3-02** Eyjolfsson, E.M.  
EVIDENCE FOR ALTERED  
GLUTAMATE METABOLISM IN  
THE SCHIZOPHRENIA MODEL  
OF CHRONIC MK-801-ADMINIS-  
TRATION.

**BP3-03** Gibson, G.E.  
ABNORMALITIES IN THE TRICAR-  
BOXYLIC ACID (TCA) CYCLE IN  
SCHIZOPHRENIC BRAIN

**BP2-06** Vidwans A.S., Hewett S.J.  
NITRIC OXIDE FROM NITRIC  
OXIDE SYNTHASE-2 POTENTIATES  
HYPOXIC NEURONAL INJURY BY  
ENHANCING SYNAPTIC  
GLUTAMATE RELEASE

**BP3-04** Lukas, R.J.  
ANTIPSYCHOTICS NON-COMPET-  
ITIVELY INHIBIT FUNCTION OF  
DIVERSE NICOTINIC ACETYL-  
CHOLINE RECEPTOR SUBTYPES

**BP4-01** Albrecht, D.  
ATPA, A KAINATE GLUR5  
AGONIST, ABOLISHES THE  
KINDLING-INDUCED  
IMPAIRMENT OF LTP IN THE RAT  
LATERAL AMYGDALA

**BP4-02** Sánchez, G.  
MUSCARINIC PARTICIPATION  
IN CAMP SIGNALING IN  
HIPPOCAMPUS AND STRIATUM

**BP4-03** Müller Igaz, L.  
CHANGES IN MRNA AND  
PROTEIN LEVELS IN RAT  
HIPPOCAMPUS DURING  
LONG-TERM MEMORY  
FORMATION OF SINGLE-TRIAL  
AVOIDANCE LEARNING

**BP4-04** Bekinschtein, P.  
LATE CHANGES IN PROTEIN  
LEVELS AFTER ONE-TRIAL  
INHIBITORY AVOIDANCE  
LEARNING DEPEND UPON  
TRAINING STRENGTH

**BP4-05** Blum, S.  
ROLES FOR PLC GAMMA 1 AND  
PI-3 KINASE IN LONG-TERM  
HIPPOCAMPUS DEPENDENT  
MEMORY

**BP5-01** McPherson, C.A.  
MICROGLIA ACTIVATION AND  
FATE FOLLOWING NEURODEGEN-  
ERATION IN THE MOUSE  
HIPPOCAMPUS

**BP5-02** Pareto, D.  
REGION-SELECTIVE INCREASES  
IN PK11195 BINDING FOLLOWING  
HEMI-BRAIN IRRADIATION:  
A QUANTITATIVE  
AUTORADIOGRAPHIC STUDY

**BP5-03** Ratnayake, D.B.  
INHIBITION OF LIPOTEICHOIC  
ACID INDUCED NITRIC OXIDE  
SYNTHASE BY LOVASTATIN IN  
MURINE MICROGLIA

**BP5-04** Suh, H.S.  
INHIBITION OF GM-CSF SIGNAL-  
ING AND MICROGLIAL PROLIFER-  
ATION BY ANTI-CD45RO

**BP5-05** Carson, M.J.  
MICROGLIA: A TISSUE  
MACROPHAGE WITH A UNIQUE  
MOLECULAR FINGERPRINT

**BP5-06** Mander, P.  
INFLAMMATORY-ACTIVATED  
MICROGLIA KILL CO-CULTURED  
NEURONS VIA NITRIC OXIDE &  
PEROXYNITRITE

**BP5-07** Möller, T.  
VIRAL TRANSDUCTION OF  
MICROGLIAL CELLS

**BP6-01** Baumann, N.  
CERAMIDE MOIETIES OF  
SULFATIDES CONTAINING  
SPHINGADIENINE FROM HUMAN  
BRAIN WITH ALZHEIMER'S  
DISEASE BY ESI-MS/MS

**BP6-02** Supnet, C.  
RYANODINE RECEPTOR(S) ARE  
INCREASED AND FACILITATE  
NEURON DEATH IN TGCRND8  
MICE

**BP6-03** Yao, J.K.  
REDUCED MEMBRANE LIPIDS IN  
THE CORTEX OF AD TRANSGENIC  
MODEL

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A NEW APPROACH TO AMELIORATING OXIDATIVE ABNORMALITIES IN ALZHEIMER BRAIN

**BP6-05** Poduslo, J.F.  
DESIGN AND CHEMICAL SYNTHESIS OF A MAGNETIC RESONANCE CONTRAST AGENT FOR IMAGING ALZHEIMER'S DISEASE AMYLOID PLAQUES

**BP6-06** Chauhan, N.B.  
ICV ANTI-AB REDUCES AMYLOID BURDEN WITHOUT INFLAMMATION OR HEMORRHAGE IN AD

**BP6-07** Chauhan, N.B.  
EFFECT OF PPF ON PLAQUE AND TANGLE PATHOLOGY IN TG2576 MOUSE MODEL OF AD

**BP6-08** Gupta, R.C.  
MEMANTINE DOES NOT INTERFERE WITH DONEPEZIL OR RIVASTIGMINE-INDUCED INHIBITION OF ACHE IN RAT CORTEX AND HIPPOCAMPUS

**BP6-09** Kalinin, S.A.  
NORADRENERGIC DEPLETION ACCELERATES PATHOLOGY IN TGAPP MICE

**BP6-10** Echeverria, V.  
MODULATION OF B-AMYLOID NEUROTOXICITY BY PGE2 EP PROSTAGLANDIN RECEPTOR AGONISTS IN POSTNATAL CULTURED MOUSE NEURONS

**BP6-11** Stokely, M.E.  
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**BP7-01** Ilyas, A.A.  
SERUM ANTIBODIES TO CHONDROITIN SULFATES IN PATIENTS WITH GUILLAIN-BARRE' SYNDROME

**BP7-02** Feinstein, D.L.  
PROTECTIVE AND PROLIFERATIVE EFFECTS OF A PPARDELTA AGONIST IN EAE

**BP7-03** Boggs, J.M.  
AN IMMUNODOMINANT EPITOPE OF MYELIN BASIC PROTEIN IS AN AMPHIPATHIC  $\alpha$ -HELIX

**BP7-04** Francke, M.  
GLIAL CELLS FROM HUMAN RETINAS PRODUCE IL-8 AND EXPRESS CXCR1 AND CXCR2 RECEPTORS

**BP7-05** Nath, N.  
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**BP7-06** McGuire, S.O.  
EXPRESSION OF A NOVEL COMPLEMENT 5A RECEPTOR IN AD BRAIN

**BP7-07** Doré, S.  
METABOLITES OF COX PATHWAY CAN BE NEUROPROTECTIVE

**BP7-08** Gavrilyuk, V.  
IDENTIFICATION OF A COMPLEMENT 5A-LIKE RECEPTOR FROM ASTROCYTES: CHARACTERIZATION OF ANTI-INFLAMMATORY PROPERTIES

**BP8-01** Brazel, C.Y.  
A NOVEL METHOD TO ENRICH FOR NEURAL STEM CELLS

**BP8-02** Svetlov, S.I.  
LYSOPHOSPHATIDIC ACID AND ITS RECEPTORS AS NOVEL REGULATORS OF NEURAL STEM/PROGENITOR CELL GROWTH AND DIFFERENTIATION

**BP8-03** Kippin, T.K.  
DOPAMINE SPECIFICALLY INHIBITS NEURAL STEM CELL PROLIFERATION SUGGESTING A NOVEL MECHANISM OF ANTIPSYCHOTIC DRUG ACTION

**BP8-04** Bongarzone, E.  
INTEGRATION OF TRANSPLANTED NEURAL PROGENITORS IN THE BRAIN OF ARYLSULFATASE A DEFICIENT MICE

**BP9-01** Musse, A.A.  
THE PATHOGENIC ROLE OF PEPTIDYLARGININE DEIMINASE IN DEMYELINATING DISEASES

**BP9-02** Singh, I.  
N-ACETYL-L-CYSTEINE PROTECTS AGAINST THE INFLAMMATORY DISEASE PROCESS IN EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS

**BP9-03** Toews, A.  
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**BP9-04** Marta, C.B.  
ANTIBODIES AGAINST MYELIN OLIGODENDROCYTE GLYCOPROTEIN (MOG) TRIGGER LIPID RAFT SIGNALING: RELEVANCE TO MULTIPLE SCLEROSIS

**BP9-05** D'Souza, C.A.  
AUTOCATALYTIC CLEAVAGE OF MYELIN BASIC PROTEIN RELEASES THE IMMUNODOMINANT EPITOPE IN MULTIPLE SCLEROSIS

**BP9-06** Brand-Schieber, E.  
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**BP9-07** Mastronardi, F.G.  
COMBINATION OF PACLITAXEL AND VITAMIN B12CN INHIBITS CITRULLINE FORMATION AND INDUCES REMYELINATION

**BP9-08** Konat, G.W.  
DOUBLE STRANDED RNA SUPPRESSES MYELIN GENE EXPRESSION IN VITRO

**BP9-09** Benjamins, J.A.  
METABOTROPIC GLUTAMATE RECEPTORS PROTECT MATURE OLIGODENDROCYTES FROM EXCITOTOXIC INJURY

Continued



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**1:30 pm – 3:30 pm Posters – Monday, August 16 Foyer/Basildon**

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CORRELATES WITH INCREASED  
AXONAL DEGENERATION AND  
NEURONAL DEATH IN  
EXPERIMENTAL ALLERGIC  
ENCEPHALOMYELITIS

**BP9-11** Jiang, M.  
ARE CHROMATIN MODIFYING  
ENZYMES INVOLVED IN THE  
PATHOGENESIS OF MS?

**BP9-12** Imam, S.A.  
CHANGES IN CALPAIN EXPRES-  
SION IN PERIPHERAL BLOOD  
MONONUCLEAR CELLS FROM  
MULTIPLE SCLEROSIS PATIENTS

**BP9-13** Bizzozero, O.A.  
EVIDENCE OF NITROSATIVE DAM-  
AGE IN MULTIPLE SCLEROSIS

**BP9-14** Prasad, R.  
INHIBITION OF PI3K-AKT-NF-KB  
PATHWAY BY LOVASTATIN LIMITS  
ENDOTHELIAL-MONOCYTE CELL  
INTERACTION

**BP9-15** Armstrong, R.C.  
INCREASED RADIAL DIFFUSIVITY:  
A DEMYELINATION MARKER

**BP9-16** Kuznecovs, S.C.  
DOLICHYL PHOSPHATE CYCLE  
AND REPAIR OF MYELIN IN  
MULTIPLE SCLEROSIS

5:45 pm – 7:00 pm

WIN Reception

Duke of Windsor Room

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**5:45 to 7:30 pm - Duke of Windsor Room**

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**Tuesday, August 17, 2004**

7:00 am – 6:00 pm	ASN Registration Desk Open	Silver Corridor
8:00 am – 5:00 pm	Coffee & Conversation Room	Cole Porter Room
8:15 am – 8:30 am	Opening Remarks George H. DeVries, President Jordi Folch-Pi Award—Joe Eichberg, Chair	Grand Ballroom
8:30 am – 9:30 am	Plenary Lecture <i>Sponsored by Neurochemistry International</i> Dr. Martin Schwab Making Axons Regrow in the Injured Adult Mammalian CNS	Grand Ballroom
9:30 am – 10:00 am	Exhibits/Posters	East Foyer/Basildon
10:00 am – 12:00 pm	Concurrent Symposiums:	
<b>Louis XVI Room</b>	<b>Jade Room</b>	<b>Astor Room</b>
<p><b>Symposium 11</b> <i>Jordi Folch-Pi Symposium:</i> <b>DOPAMINE-SEROTONIN INTERACTIONS IN PSYCHOSIS AND ANTIPSYCHOTIC DRUG ACTIONS</b> Organizer: Frank Tarazi</p> <p><b>S11-01</b> Tarazi, F.I. 2003 <i>Jordi Folch-Pi Memorial Award Recipient</i> LONG-TERM EFFECTS OF ANTIPSYCHOTIC DRUGS ON DOPAMINE AND SEROTONIN RECEPTORS</p> <p><b>S11-02</b> Bymaster, F.P. NEUROCHEMICAL EFFECTS OF ANTIPSYCHOTIC DRUGS ON DOPAMINE AND SEROTONIN SYSTEMS</p> <p><b>S11-03</b> Deutch, A.Y. REGIONALLY SPECIFICITY IN DETERMINING THE ATYPICAL ANTIPSYCHOTIC DRUG PROFILE</p> <p><b>S11-04</b> Remington, G. D2 AND 5-HT2 PROFILE OF TYPICAL AND ATYPICAL ANTIPSYCHOTICS: PET EVIDENCE</p>	<p><b>Symposium 12</b> <b>NEUROPLASTICITY AND RECOVERY AFTER BRAIN INJURY</b> Organizer: Wendy Kartje</p> <p><b>S12-01</b> Karjte, G.L. FUNCTIONAL RECOVERY AND NEUROANATOMICAL PLASTICITY AFTER STROKE AND ANTI-NOGO ANTIBODY THERAPY IN AGED RATS</p> <p><b>S12-02</b> Chesselet, M.F. LESION-SPECIFIC UPREGULATION OF NOGO-A IN ADULT BRAIN: RELATION TO AXONAL SPROUTING</p> <p><b>S12-03</b> Filbin, M.T. OVERCOMING INHIBITORS OF MYELIN TO PROMOTE REGENERATION IN VIVO</p> <p><b>S12-04</b> Schwab, M.E. SPONTANEOUS AND INDUCED PLASTICITY IN THE ADULT MAMMALIAN SPINAL CORD</p>	<p><b>Symposium 13</b> <b>THE ROLE OF MITOCHONDRIA IN NEURODEGENERATION</b> Organizer: M.Flint Beal</p> <p><b>S13-01</b> Beal, M.F. THERAPEUTIC APPROACHES TO MITOCHONDRIAL DYSFUNCTION IN THE TREATMENT OF NEURODEGENERATIVE DISEASES</p> <p><b>S13-02</b> Browne, S.E. HUNTINGTON'S DISEASE PATHOGENESIS - KEY ROLES FOR MITOCHONDRIA?</p> <p><b>S13-03</b> Manfredi, G. MITOCHONDRIAL DYSFUNCTION IN MODELS OF FAMILIAL AMYOTROPHIC LATERAL SCLEROSIS</p> <p><b>S13-04</b> Gibson, G.E. OXIDATIVE STRESS AND ALTERED MITOCHONDRIAL FUNCTION IN ALZHEIMER'S DISEASE</p>
12:15 pm – 1:30 pm	Meet the Speakers Luncheons	18th Floor





**Tuesday, August 17, 2004**

1:30 pm – 3:30 pm

Poster Presentations & Visit Exhibitors East Foyer/Basildon  
Posters Listed on Page 18–20

1:45 pm – 3:15 pm

Oral Presentations

Louis XVI Room

**MOLECULAR MECHANISMS OF NEUROINFLAMMATION-NEURODEGENERATION**

Organizer: Monica Carson

**OR3-01** Ralph, S.

TARGETED ABLATION OF MUTANT SOD1 IN ALS MODELS USING LENTIVIRAL MEDIATED DELIVERY OF INTERFERING RNA

**OR3-02** Cittelly, D.

EFFECT OF SPINAL CORD INJURY ON BAX AND BCL-XL EXPRESSION LEVELS AND THEIR SUBCELLULAR DISTRIBUTIONS

**OR3-03** Paintlia, A.S.

REGULATION OF IMMUNE RESPONSE GENES ASSOCIATED WITH ACUTE EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS BY LOVASTATIN

**OR3-04** Fogal, B.

INTERLEUKIN-1 $\beta$  POTENTIATES NEURONAL INJURY IN A VARIETY OF INJURY MODELS INVOLVING ENERGY DEPRIVATION

**OR3-05** Zambrano, G.J.

INFLUENCE OF THE 70 KD HEAT SHOCK PROTEIN IN ASTROCYTES AND MICROGLIA UNDER INJURY CONDITIONS

**OR3-06** Zhu, J.P.

INFLUENCE FROM THE NEUROKININ-1 RECEPTOR IN METHAMPHETAMINE-INDUCED DAMAGE OF STRIATAL NEURONS

**36<sup>th</sup> ASN Annual Meeting  
Madison, Wisconsin  
June 25 – 29, 2005**

**George H. DeVries - ASN President 2005**

**Douglas Feinstein - Program Committee Chair**

**Ian Duncan - Host Committee Chair**

The meeting will be held at the Monona Terrace  
Convention Center, designed by Frank Lloyd Wright.

ASN has negotiated group discounted rates at the  
following hotels:

Madison Hilton @ \$139 per night

Madison Concourse @ \$129 per night

**Check website for program updates: [www.ASNeurochem.org](http://www.ASNeurochem.org)**



**Tuesday, August 17, 2004**

3:30 pm – 5:30 pm

Concurrent Workshop & Symposiums:

Louis XVI Room	Jade Room	Astor Room
<p><b>Workshop 3</b> <i>Dedicated to Pierre Morell</i> <b>OLD AND NEW PLAYERS IN MYELIN ASSEMBLY</b> Organizer: Patrizia Lopresti</p> <p><b>W3-01</b> LoPresti, P. REGULATION OF FYN LOCALIZATION VIA TAU</p> <p><b>W3-02</b> Kidd, G.J. PROTEIN TARGETING MECHANISMS IN SCHWANN CELL MYELINATION</p> <p><b>W3-03</b> Krämer, E.M. RAFTING OLIGODENDROGLIAL MEMBRANES: FROM AXOGLIAL INTERACTION TO MYELIN MEMBRANE BIOGENESIS</p> <p><b>W3-04</b> Feng, Y. QKI MEDIATES DEVELOPMENTAL SIGNALS TO CONTROL CNS MYELINOGENESIS VIA REGULATING MRNA METABOLISM</p> <p><b>W3-05</b> Song, J. IDENTIFICATION OF OLIGODENDROCYTE SUBTYPES</p>	<p><b>Symposium 14</b> <b>STROKE: INFLAMMATION IN THE NEUROVASCULAR UNIT</b> Organizer: Eng Lo</p> <p><b>S14-01</b> Lo, E.H. STROKE: INFLAMMATION IN THE NEUROVASCULAR UNIT</p> <p><b>S14-02</b> del Zoppo, G.J. NEUROINFLAMMATION, A RESPONSE TO ISCHEMIA BY THE NEUROVASCULAR UNIT</p> <p><b>S14-03</b> Dawson, V.L. ISCHEMIC PRECONDITIONING</p> <p><b>S14-04</b> Goldberg, M.P. WHITE MATTER ISCHEMIA: NEUROVASCULAR INJURY WITHOUT THE NEURONS</p> <p><b>S14-05</b> Parent, J.M. THE ADULT FOREBRAIN STEM CELL NICHE AND ISCHEMIA-INDUCED NEUROGENESIS</p>	<p><b>Symposium 15</b> <b>POLYUNSATURATED FATTY ACIDS IN THE DEVELOPING AND PATHOLOGIC BRAIN</b> Organizer: Ephraim Yavin</p> <p><b>S15-01</b> Yavin, E. ADEQUATE OR DEFICIENT OMEGA-3 DIETS AND THE PERINATAL BRAIN</p> <p><b>S15-02</b> Brenna, J.T. COMPOSITIONAL AND FUNCTIONAL CONSEQUENCES OF DOCOSAHEXAENOIC ACID SUPPLEMENTATION IN RETINA AND CNS OF NEONATAL BABOONS</p> <p><b>S15-03</b> Salem, N. COGNITIVE DEFICITS AND REDUCED NEURONAL SIZE IN DHA-DEFICIENT RATS</p> <p><b>S15-04</b> Kim, H.Y. ROLE OF DOCOSAHEXAENOIC ACID IN NEURONAL DIFFERENTIATION AND SURVIVAL</p> <p><b>S15-05</b> Crawford, M.A. IS ARACHIDONIC ACID A PRE-REQUISITE FOR VASCULAR AND NEURAL DEVELOPMENT IN THE HUMAN EMBRYO AND FETUS?</p>

5:45 pm – 7:00 pm

ASN Business Meeting  
*All members are encouraged to attend*

Jade Room

7:00 pm – 7:30 pm

Tribute to Pierre Morell  
*Presentation by Arrel Toews*

Jade Room

**Future ASN/ISN Meetings**

- ASN/ISN Mixer at SFN Annual Meeting — San Diego, CA, October 25th, 2004
- 36th ASN Annual Meeting — Madison, WI, June 25 — 29, 2005
- 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

Check Website for Program Updates: [www.ASNeurochem.org](http://www.ASNeurochem.org)



1:30 pm – 3:30 pm

Posters – Tuesday, August 17

Foyer/Basildon

**CP1-01** Rouhiainen, A.  
DETECTION OF SECRETED EXON 8  
LACKING SPLICE VARIANT OF  
RECEPTOR FOR ADVANCED  
GLYCATION END PRODUCTS  
(RAGE) FROM ASTROCYTES

**CP1-02** Konat, G.W.  
HYPOCHLOROUS ACID  
ACTIVATES SIGNALING PATH-  
WAYS AND INDUCES GLIOTIC  
RESPONSE IN ASTROCYTES

**CP1-03** Giri, S.  
15D PGJ2 INHIBITS  
INFLAMMATORY RESPONSE IN  
PRIMARY ASTROCYTES VIA  
DOWN REGULATING MULTIPLE  
STEPS IN PI3K-AKT-NF-KB-P300  
PATHWAY

**CP1-04** Haley, J.E.  
THE USE OF WATER SOLUBLE,  
UNMETALLATED PORPHYRINS AS  
LIGHT ABSORBING SENSITIZERS  
IN THE PHOTODYNAMIC TREAT-  
MENT OF CULTURED C6 CELL

**CP1-05** Saha, R.N.  
DIFFERENTIAL CONSTITUTIVE  
EXPRESSION AND RECRUITMENT  
OF NF-KB P50 AND P65 SUBUNITS  
IN NEURONS AND GLIA

**CP1-06** Chorna, N.E.  
NUCLEOTIDE RECEPTORS  
ACTIVATE NEUROPROTECTIVE  
MECHANISMS IN ASTROCYTIC  
CELLS

**CP1-07** Das, A.  
DIFFERENTIATION IN RAT C6  
GLIOBLASTOMA CELLS  
ENHANCED SENSITIVITY TO  
TAXOL OR IFN- $\gamma$  FOR APOPTOSIS

**CP1-08** Wang, C.R.  
ANTISENSE GFAP INHIBITS  
ASTROGLIOSIS IN PRIMARY  
CULTURE OF ASTROCYTES  
AFTER SCRATCH INJURY

**CP1-09** Jean, Y.Y.  
METABOTROPIC GLUTAMATE  
RECEPTOR 5 MEDIATES  
INCREASES IN BDNF EXPRESSION  
IN BASAL FOREBRAIN (BF)  
ASTROCYTES

**CP1-10** Benito Ordaz  
K+CHANNELS ACTIVATED  
DURING GRADUAL OSMOTIC  
DECREASE IN C6 GLIOMA CELLS

**CP2-01** Kanjilal, B.  
ISOLATION AND ANALYSIS THE  
5'-FLANKING SEQUENCE OF THE  
MOUSE MGAT-5 GENE

**CP2-02** Brent, B.R.  
A ROLE FOR HETEROGENEOUS  
NUCLEAR RIBONUCLEOPROTEIN  
K IN THE REGULATION OF  
MYELIN BASIC PROTEIN GENE  
EXPRESSION

**CP2-03** Santos-Berrios,  
P2X<sub>7</sub>

**CP2-04** Tanner, D.C.  
GAP-43 EXPRESSION IS RESCUED  
IN VIVO BY OVEREXPRESSION OF  
THE RNA-BINDING PROTEIN HUD

**CP2-05** Jayman, F.A.  
EXPRESSION AND ROLE OF  
MOUSE ATPASE II IN BRAIN  
CELLS

**CP2-06** Natali, F.  
STIMULATION OF MYELIN  
PROTEOLIPID PROTEIN GENE  
EXPRESSION BY  
EICOSAPENTAENOIC ACID  
IN C6 GLIOMA CELLS

**CP2-07** Xia, T.  
SP1 AND AP2 REGULATE  
TATA-LESS MOUSE  
GM3-SYNTHASE PROMOTER  
ACTIVITY

**CP2-08** Zeng, G.  
EXPRESSION OF WNK1 IN  
DEVELOPING BRAIN AND  
CANCER CELLS CORRELATES  
WITH GANGLIOSIDE GD3

**CP2-09** Hewett, J.A.  
CONTROL OF CONSTITUTIVE  
AND INDUCIBLE CYCLOOXYGE-  
NASE-2 (COX-2) EXPRESSION BY  
CIS ELEMENTS IN THE 3' UTR OF  
COX-2 MRNA

**CP2-10** Wei, Q.  
REPRESSION OF MYELIN BASIC  
PROTEIN EXPRESSION BY NKX2.2  
IN OLIGODENDROCYTE  
PRECURSOR CELLS

**CP2-11** Vemuganti, R.  
THIAMINE DEFICIENCY-INDUCED  
GENE EXPRESSION CHANGES IN  
RAT THALAMUS: MICROARRAY  
ANALYSIS

**CP2-12** Sobocki, T.  
STRUCTURAL ANALYSIS, AND  
CELL-TYPE SPECIFICITY OF THE  
HUMAN ATPASE II PROMOTER

**CP3-01** Walmsley, A.R.  
ZINC METALLOPROTEINASE-  
MEDIATED CLEAVAGE OF THE  
NOGO-66 RECEPTOR GENERATES  
A SOLUBLE ECTODOMAIN THAT  
BINDS NOGO-66 BUT NOT P75NTR

**CP3-02** Warrington, A.E.  
NEURON-BINDING HUMAN MON-  
OCLONAL ANTIBODIES ALLOW  
NEURITE EXTENSION ON MYELIN

**CP3-03** Bjornsson, C.S.  
BRAIN VASCULAR DAMAGE DUE  
TO NEUROPROSTHETIC  
INSERTION: CASTING AND  
QUANTITATIVE ANALYSIS

**CP3-04** Rafati, D.S.  
NF-KAPPA B REGULATION AFTER  
SPINAL CORD INJURY

**CP3-05** Zhou, L.  
NEUROTROPHIN-3 EXPRESSED IN  
SITU INDUCES LONG LASTING  
NEUROPLASTICITY IN THE  
INJURED SPINAL CORD

**CP3-06** Nikulina, E.  
INHIBITION OF PDE4 BY BDNF OR  
ROLIPRAM PROMOTES AXONAL  
REGENERATION

**CP3-07** DeVries, G.H.  
EFFECTS OF NOGO-A BLOCKADE  
AFTER A FOCAL DEMYELINATING  
LESION

**CP3-08** Domeniconi, M.  
MYELIN-ASSOCIATED GLYCOPRO-  
TEIN INHIBITION OF NEURITE  
OUTGROWTH: AGE-RELATED  
CHANGES IN NEURONAL  
RESPONSES

**CP3-09** Nescic, O.  
A NOVEL MECHANISM OF SPINAL  
CORD INJURY-INDUCED  
NEUROPATHIC PAIN

Continued

1:30 pm – 3:30 pm Posters – Tuesday, August 17 Foyer/Basildon

**CP3-10** Pannu, R.  
ATTENUATION OF ACUTE  
INFLAMMATORY RESPONSE BY  
ATORVASTATIN FOLLOWING  
SPINAL CORD INJURY IN RATS

**CP3-11** Tsai, S.Y.  
EFFECT OF DELAYED NOGO-A  
BLOCKADE ON RECOVERY AFTER  
STROKE IN THE AGED ADULT  
RAT

**CP3-12** Spencer, T.  
INHIBITION OF CAMKIV CAN  
ABROGATE THE BDNF-INDUCED  
BLOCK OF MAG-MEDIATED  
INHIBITION OF NEURITE  
OUTGROWTH

**CP4-01** Galindo, C.A.  
DIHYDROPIRIDINES MECHANISM  
OF ACTION IN STRIATAL  
ISOLATED NERVE ENDINGS.  
COMPARISON WITH  
W-AGATOXIN IVA

**CP4-02** Wu, J.  
CYSTEINE 446 IS CRUCIAL FOR  
HUMAN GLUTAMATE  
DECARBOXYLASE(GAD),  
GAD65, ACTIVITY

**CP4-03** Sánchez-Borzone, M.E.  
PARTICIPATION OF THE  
NORADRENERGIC SYSTEM IN  
THE EXCESSIVE GROOMING  
BEHAVIOR INDUCED BY  
NEUROPEPTIDE GLUTAMIC  
ACID ISOLEUCINE

**CP4-04** Rossi, S.L.  
NICOTINE INDUCED  
NEUROTRANSMITTER CHANGES  
IN COGNITIVE BRAIN AREAS

**CP4-05** Kortner, T.  
GABA AND GLUTAMATE  
SYNTHESIS IN CULTURED  
GLUTAMATERGIC NEURONS  
FROM CEREBELLUM

**CP5-01** Vana, A.C.  
MYELIN TRANSCRIPTION  
FACTOR 1 IN EXPERIMENTAL  
CNS DEMYELINATION AND  
REMYELINATION

**CP5-02** Taylor, C.M.  
THE MYELIN PROTEOME:  
FUNCTIONAL PROTEOMIC  
MAPPING OF THE COMPLEX,  
METABOLICALLY ACTIVE  
MYELIN MEMBRANE

**CP5-03** Haq, E.  
PEROXISOMAL PARTICIPATION  
IN PSYCHOSINE-MEDIATED  
LIPOTOXICITY: IMPLICATIONS  
FOR KRABBE DISEASE

**CP5-04** Fragoso, G.  
INHIBITION OF P38 MITOGEN-  
ACTIVATED PROTEIN KINASE  
(MAPK) INTERFERES WITH  
PERIPHERAL AND CENTRAL  
MYELINATION

**CP5-05** He, Y.  
A ROLE OF THE POLYCOMB PRO-  
TEIN YY-1 IN OLIGODENDROCYTE  
DIFFERENTIATION

**CP5-06** Hinman, J.D.  
AGE-DEPENDENT PROTEOLYSIS  
OF CNP CORRELATES WITH CAL-  
PAIN-1 ACTIVATION AND MAY  
ALTER AXONAL ORGANIZATION  
AT THE NODE OF RANVIER

**CP5-07** Boggs, J.M.  
EFFECT OF PHOSPHORYLATION  
OF MYELIN BASIC PROTEIN ON  
ITS INTERACTION WITH ACTIN  
IN VITRO

**CP5-08** Konde, V.B.  
CYTOPLASMIC DOMAIN MUTA-  
TIONS IMPAIR TRAFFICKING OF  
MYELIN PROTEIN ZERO TO THE  
PLASMA MEMBRANE

**CP5-09** Hedstrom, K.L.  
IS PALMITOYLATION IMPORTANT  
FOR THE FUNCTION OF  
NEUROFASCIN 155?

**CP5-10** Yoshida, M.  
OLIGODENDROCYTE DEVELOP-  
MENT AND MYELINATION IN GFP  
TRANSGENIC ZEBRAFISH

**CP5-11** Marin-Husstege, M.  
REGULATION OF MBP PROMOTER  
ACTIVITY BY HOMEODOMAIN &  
bHLH PROTEIN

**CP5-12** Zand, R.  
POST-TRANSLATIONAL  
MODIFICATIONS IN CHICKEN  
MBP ANALYZED WITH LC/MS/MS

**CP6-01** Levedakou, E.N.  
DISRUPTION OF THE MOUSE  
LARGE GENE BY THE ENR TRANS-  
GENE RESULTS IN MYODYSTRO-  
PHY WITH NERVE AND NEURO-  
MUSCULAR JUNCTION DEFECTS

**CP6-02** Tasca, C.I.  
TROPIC EFFECTS OF GMP AND  
GUANOSINE ON CEREBELLAR  
NEURON-ASTROCYTE  
COCULTURE

**CP6-03** Millan, C.  
ANALYSIS OF GLUCOKINASE  
AND GLUCOKINASE REGULATO-  
RY PROTEIN EXPRESSION IN  
HYPOTHALAMIC GLIAL CELLS

**CP6-04** Dimayuga, F.O.  
MICROGLIA-NEURON COCUL-  
TURES: A MODEL FOR EXPLORING  
THE ROLE OF APOPTOSIS IN ALS

**CP6-05** Harry, G. J.  
NEURONAL EXPRESSION OF  
TUMOR NECROSIS FACTOR  
RECEPTORS AND GLIA IN ACUTE  
HIPPOCAMPAL INJURY: NEU-  
RONAL DEATH AND SURVIVAL

**CP6-06** Fitzgerald, J. K.  
EVIDENCE THAT JUXTAPARAN-  
ODAL AXONAL MEMBRANE  
ISOLATED FROM MYELINATED  
AXONS CONTAINS GLIAL  
SIGNALING MOLECULES

**CP6-07** Becker-Catania, S.G.  
EVIDENCE OF AXOLEMMA-  
INDUCED CHANGES IN  
PROLIFERATION AND DIFFEREN-  
TIATION OF OLIGODENDROCYTE  
PROGENITORS

**CP6-08** Barros, V.G.  
ASTROCYTE-NEURON  
VULNERABILITY TO PRENATAL  
STRESS IN THE ADULT RAT  
BRAIN

Continued



Continued

**1:30 pm – 3:30 pm Posters – Tuesday, August 17 Foyer/Basildon**

**CP7-01** Dobolyi, A.  
DISTRIBUTION OF MRNAS  
ENCODING LATENT TRANSFORM-  
ING GROWTH FACTOR BINDING  
PROTEINS IN THE RAT BRAIN

**CP7-02** Liberto, C.M.  
CILIARY NEUROTROPHIC  
FACTOR DIMINISHES  
MICROGLIAL REACTIVITY AND  
STIMULATES THEIR PRODUC-  
TION OF NEUROTROPHIC  
FACTORS

**CP7-03** Deadwyler, G.D.  
EXPRESSION OF NEUREGULINS  
AFTER MIDDLE CEREBRAL  
ARTERY OCCLUSION

**CP7-04** Rosenstein, J.M.  
VEGF APPLICATION INDUCES  
ASTROGLIAL GROWTH AND  
BFGF PRODUCTION IN ORGAN-  
OTYPIC CORTICAL EXPLANTS

**CP7-05** Irwin, L.N.  
GENE EXPRESSION FOR  
CHEMOKINES, NEUROTROPHINS,  
AND THEIR RECEPTORS IN THE  
FOREBRAIN OF NORMAL AND  
GENETICALLY OBESE MICE

**CP7-06** Wood, M.R.  
BDNF KNOCKOUT MICE EXHIBIT  
REDUCED NUMBERS OF OLIGO-  
DENDROCYTE LINEAGE CELLS  
(OLCS) IN THE BASAL  
FOREBRAIN (BF)

**CP7-07** Nelson, J.  
NEUREGULIN-1A IS UPREGULAT-  
ED AFTER SPINAL CORD INJURY

**CP7-08** Zhu, W.  
ABSENCE OF MORPHINE IN  
THE MAMMALIAN GUT:  
A HORMONAL ROLE FOR  
ENDOGENOUS OPIATE

**CP7-09** Grubic, Z.  
IN VITRO INNERVATED HUMAN  
MUSCLE: AN EXPERIMENTAL  
MODEL TO STUDY THE EFFECTS  
OF TROPHIC FACTORS ON THE  
FORMATION OF SYNAPSES

**CP7-10** Ordaz, B.  
K+ CHANNELS ACTIVATED  
DURING GRADUAL OSMOTIC  
DECREASE IN C6 GLIOMA CELLS

**ASN Welcomes the following Exhibitors  
to the 35<sup>th</sup> Annual Meeting:**

American Society for Neurochemistry  
Biacore, Inc.  
Blackwell Publishing  
Elsevier  
Kluwer Academic/Plenum Publishers  
Open Biosystems  
Promega Corporation  
Signet Laboratories, Inc.  
Wiley

Please visit the ASN Booth for information on the  
2005 Annual Meeting in Madison, WI



**Wednesday, August 18, 2004**

7:00 am – 4:00 pm	ASN Registration Desk Open	Silver Corridor
8:00 am – 4:00 pm	Coffee & Conversation Room	Cole Porter Room
8:00 am – 9:45 am	Poster Presentations & Visit Exhibitors Posters Listed on Pages 23—25	East Foyer/Basildon
8:15 am – 9:45 am	Oral Presentations	Louis XVI Room

**EFFECT OF ESTROGEN AND ETHANOL ON INFLAMMATION**

Organizer: Krishan Dhandapani

**OR4-01** Dhandapani, K.M.  
MOLECULAR MECHANISMS OF ESTROGEN-INDUCED SYNAPTIC PLASTICITY IN THE RAT CEREBRAL CORTEX: INSIGHTS FROM GENE CHIP ANALYSIS

**OR4-02** Kauffman, F.C.  
NAD(P)H-QUINONE OXIDOREDUCTASE (NQO1) IN STRIATA AND LIVERS OF ACI RATS TREATED CHRONICALLY WITH ESTRADIOL (E2)

**OR4-03** Reed, J.L.  
ESTROGEN INFLUENCES THE PROTEASOME: A POSSIBLE MECHANISM FOR ESTROGEN'S ANTI-INFLAMMATORY EFFECTS

**OR4-04** Davis, R.L.  
ETHANOL EFFECTS ON INFLAMMATORY RESPONSES IN HUMAN ASTROGLIA

**OR4-05** Fakoya, F.A.  
EARLY NEOCORTICAL NEURODEGENERATION IN ADULT WISTAR RATS PRENATALLY EXPOSED TO ETHANOL

**OR4-06** Collins, M.A.  
NEUROPROTECTION INDUCED BY MODERATE ETHANOL PRECONDITIONING (MEP) OF BRAIN CULTURES: POSSIBLE ROLE OF HEAT SHOCK PROTEINS

10:00 am – 11:00 am	Plenary Lecture <i>Dr. Marianne Bronner-Fraser</i> The Neural Crest: A Cell Type with Both Face and Nerve	Grand Ballroom
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11:15 am – 1:15 pm Concurrent Symposiums:

Louis XVI Room	Jade Room	Astor Room
<p><b>Symposium 16</b> FGFS, OLD MOLECULES, NEW TRICKS Organizers: Rashmi Bansal &amp; Terri Wood</p> <p><b>S16-01</b> Mohammadi, M. STRUCTURAL BASIS FOR FGF RECEPTOR ACTIVATION</p> <p><b>S16-02</b> Goldfarb, M. STRUCTURE/FUNCTION ANALYSIS OF FIBROBLAST GROWTH FACTOR HOMOLOGOUS FACTORS</p>	<p><b>Symposium 17</b> NEW DISCOVERIES IN THE GENETICS OF HUMAN EPILEPSY Organizer: Richard Olsen</p> <p><b>S17-01</b> Minassian, B.A. LAFORIN PREFERENTIALLY BINDS THE NEUROTOXIC STARCH-LIKE POLYGLUCOSANS, WHICH FORM IN ITS ABSENCE IN PROGRESSIVE MYOCLONUS EPILEPSY</p> <p><b>S17-02</b> Delgado-Escueta, A. CHARACTERIZATION OF A NOVEL PROTEIN MUTATED IN JUVENILE MYOCLONIC EPILEPSY</p>	<p><b>Symposium 18</b> OXIDATIVE STRESS IN NEURODEGENERATIVE DISEASES: CAUSE OR CONSEQUENCE Organizer: Mark Smith</p> <p><b>S18-01</b> Bazan, N.G. NOVEL DOCOSAHEXAENOIC ACID-DERIVED NEUROPROTECTIVE DOCOSANOIDS IN OXIDATIVE STRESS</p>

Continued



Continued

Louis XVI Room	Jade Room	Astor Room
<p><b>S16-03</b> Halegoua, S. THE MECHANISM FOR RETROGRADE ENDOSOMAL SIGNALING BY NEUROTROPHIC GROWTH FACTORS IS NOVEL</p> <p><b>S16-04</b> Bansal, R. FGF RECEPTOR REGULATION OF OLIGODENDROCYTES</p>	<p><b>S17-03</b> Cossette, P. IMPAIRED GABA TRANSMISSION IN IDIOPATHIC GENERALIZED EPILEPSIES</p> <p><b>S17-04</b> Olsen, R.W. GABA-A RECEPTOR <math>\beta 3</math> SUBUNIT GENE IN ANGELMAN SYNDROME AND EPILEPSY</p>	<p><b>S18-02</b> Perez-Polo, J.R. MECHANISMS OF CELL DEATH IN CENTRAL NERVOUS SYSTEM RESPONSES TO TRAUMA</p> <p><b>S18-03</b> Perry, G. HOMEOSTATIC REGULATION OF CHRONIC OXIDATIVE INSULT IN NEURODEGENERATIVE DISEASES</p> <p><b>S18-04</b> Smith, M.A. OXIDATIVE STRESS IN NEURODEGENERATIVE DISEASES: CAUSE OR CONSEQUENCE</p>

1:30 pm – 2:30 pm                      Meet the Speakers Luncheons                      18th Floor

2:45 pm – 4:45 pm                      Concurrent Workshop & Symposiums:

Louis XVI Room	Jade Room	Astor Room
<p><b>Workshop 4</b> <b>RADIAL GLIA: LORD OF CNS DEVELOPMENT—THE ONE CELL TO RULE THEM ALL</b> Organizer: Sean Liour</p> <p><b>W4-01</b> Kriegstein, A.R. PATTERNS OF NEUROGENESIS AND MIGRATION IN LATE RODENT CORTICAL DEVELOPMENT</p> <p><b>W4-02</b> Fishell, G.J. NOTCH SIGNALING, RADIAL GLIA AND STEM CELLS IN THE TELENCEPHALON AND CEREBELLUM</p> <p><b>W4-03</b> Anton, E.S. NEUREGULIN 1- ERBB SIGNALING DURING RADIAL GLIAL DEVELOPMENT AND NEURONAL MIGRATION IN THE DEVELOPING CEREBRAL CORTEX.</p> <p><b>W4-04</b> Liour, S.S. DIFFERENTIATION OF RADIAL GLIAL CELLS FROM EMBRYONIC STEM CELLS WITH DISTINCT FOREBRAIN AND SPINAL CORD PHENOTYPES</p>	<p><b>Symposium 19</b> <b>INVOLVEMENT OF LIPIDS IN APOPTOSIS AND CLEARANCE OF NEURONAL CELLS</b> Organizer: Probal Banerjee</p> <p><b>S19-01</b> Dawson, G.C. CERAMIDE IN THE APOPTOSIS OF OLIGODENDROCYTES</p> <p><b>S19-02</b> Bieberich, E. CERAMIDE AND APOPTOSIS DURING NEURAL DEVELOPMENT</p> <p><b>S19-03</b> Yu, R.K. REGULATION OF GANGLIOSIDE BIOSYNTHESIS IN THE NERVOUS SYSTEM</p> <p><b>S19-04</b> Banerjee, P. PHAGOCYTTIC RECOGNITION OF APOPTOTIC CELLS, PHOSPHATIDYLSERINE TRANSLOCASE, AND NEUROTUMORS</p>	<p><b>Symposium 20</b> <b>ENVIRONMENTAL AND GENETIC INTERACTIONS IN NEURODEGENERATIVE DISEASES</b> Organizer: Wenzhen Duan</p> <p><b>S20-01</b> Greenamyre, J.T. GENE-ENVIRONMENT-MITOCHONDRIAL INTERACTIONS IN PARKINSON'S DISEASE</p> <p><b>S20-02</b> Wolozin, B. THE ROLE OF CHOLESTEROL IN THE PATHOPHYSIOLOGY OF ALZHEIMER DISEASE</p> <p><b>S20-03</b> Wood, W.G. MEMBRANE CHOLESTEROL DOMAINS IN MICE EXPRESSING HUMAN APOLIPOPROTEIN E3 AND E4</p> <p><b>S20-04</b> Duan, W. INTERVENTION IN HUNTINGTON'S DISEASE: TARGETING SEROTONIN AND BDNF SIGNALING</p>

7:30 pm                      ASN Summer BBQ                      Tavern on the Green  
 Transportation will depart from 49<sup>th</sup> Street Garage Entrance at 7:00 pm  
 Guest Speaker: Claudia Dreifus, Science Editor, NY Times  
 Recognition of Basic Neurochemistry Editors



8:30 am – 9:45 am Posters – Wednesday, August 18 Foyer/Basildon

**DP1-01** Stucki, B.L.  
UPREGULATION OF CALPAIN  
IN NEURONAL APOPTOSIS IN  
KAINIC ACID INDUCED SEIZURES  
IN RATS

**DP1-02** Meloe, T.M.  
POTENTIAL NEUROPROTECTIVE  
AND ANTIEPILEPTIC PROPERTIES  
OF ADENOSINE ANALOGUES IN  
THE LI-PILO MODEL OF  
TEMPORAL LOBE EPILEPSY

**DP1-03** Petroff, O.A.  
THE RATIO OF ANAPLOROSIS TO  
OXIDATION METABOLISM OF  
GLUTAMATE IS DECREASED IN  
THE EPILEPTOGENIC & GLIOTIC  
HUMAN HIPPOCAMPUS

**DP1-04** Alvestad, S.  
NEURONAL-GLIAL INTERAC-  
TIONS DURING THE LATENT  
PERIOD FOLLOWING KAINATE  
INDUCED SEIZURES IN RATS

**DP2-01** Hadjiconstantinou, M.  
GM1-INDUCED ACTIVATION OF  
ERKS IN THE BRAIN OF YOUNG  
AND AGED RATS

**DP2-02** Duchemin, A.M.  
EXOGENOUS GM1 GANGLIOSIDE  
ACTIVATES SRC KINASES IN  
BRAIN SLICES

**DP2-03** Kasperzyk, J.L.  
N-BUTYLDEOXYGALACTONOJIR-  
IMYCIN REDUCES POSTNATAL  
CEREBELLAR GANGLIOSIDE  
CONTENT IN A MOUSE MODEL  
OF GM1 GANGLIOSIDOSIS

**DP2-04** Baek, R.C.  
N-BUTYLDEOXYGALACTONOJIR-  
IMYCIN REDUCES BRAIN  
GANGLIOSIDE AND GM2  
CONTENT IN NEONATAL  
SANDHOFF DISEASED MICE

**DP2-05** Abate, L.E.  
INFLUENCE OF IMINO SUGARS  
ON GROWTH AND GANGLIOSIDE  
CONTENT IN AN EXPERIMENTAL  
MOUSE BRAIN TUMOR

**DP2-06** Wu, G.  
ROLE OF GM1 GANGLIOSIDE IN  
OPERATION OF TRPC5 CALCIUM  
CHANNELS

**DP2-07** Ledeen, R.W.  
HEIGHTENED KAINATE-INDUCED  
SEIZURES IN GANGLIOSIDE-  
DEFICIENT (KO) MICE: FUNCTION  
OF GM1 IN NEURONAL CALCIUM  
HOMEOSTASIS

**DP2-08** Yanagisawa, M.  
OVEREXPRESSION OF GANGLIO-  
SIDES SUPPRESSES PROLIFERA-  
TION OF IMMORTALIZED NEURAL  
PROGENITOR CELLS VIA REPRES-  
SION OF THE MAPK PATHWAY

**DP3-01** Murphy, E.J.  
H-FABP EXPRESSION INCREASES  
ARACHIDONIC BUT NOT  
PALMITIC ACID UPTAKE INTO  
MURINE BRAIN

**DP3-02** Golovko, M.Y.  
METHOD FOR LONG CHAIN  
ACYL-COA ANALYSIS

**DP3-03** Barcelo-Coblijn, G.  
EFFECTS OF DIETARY LIPIDS  
ON BRAIN PHOSPHOLIPID  
COMPOSITION

**DP3-04** Saito, M.  
ETHANOL INDUCES ACCUMULA-  
TION OF CERAMIDE AND  
TRIGLYCERIDE IN NEURONS

**DP4-01** Yang, D.Q.  
CONSTITUTIVE EXPRESSION AND  
CYTOPLASMIC COMPARTMENTA-  
TION OF ATM PROTEIN IN DIFFER-  
ENTIATED HUMAN NEURON-LIKE  
SH-SY5Y CELLS

**DP4-02** Hensley, K.  
MITOCHONDRIAL ROUTES TO  
GLIAL ACTIVATION IN ALS

**DP4-03** Kiaei, M.  
ELEVATION OF CPLA2 AND THE  
EFFECT OF NONSTERIODAL  
ANTI-INFLAMMATORY DRUGS  
IN TRANSGENIC MOUSE MODEL  
OF AMYOTROPHIC LATERAL  
SCLEROSIS

**DP4-04** Kipiani, K.  
CELASTROL BLOCKS MOTOR  
NEURON CELL DEATH AND  
EXTEND LIFE IN TRANSGENIC  
MOUSE MODEL OF AMYOTROPH-  
IC LATERAL SCLEROSIS

**DP4-05** Zarghooni, M.  
THE INTERACTION BETWEEN  
THE GM2 ACTIVATOR AND BETA-  
HEXOSAMINIDASE A (HEX A)

**DP4-06** Neff, N.H.  
CLOZAPINE ACTIVATES BRAIN  
DOPAMINERGIC METABOLISM  
AND SYNTHETIC ENZYMES

**DP4-07** Castagnet, P.I.  
EXPRESSION OF A30P OR A53T  
ALPHA-SYNUCLEIN MUTANTS  
ALTERS CELLULAR FATTY ACID  
UPTAKE AND TRAFFICKING

**DP4-08** Castagnet, P.I.  
ALTERATION OF FATTY ACID  
UPTAKE IN HEK CELLS BY  
WILD TYPE, A30P OR A53T  
ALPHA-SYNUCLEIN EXPRESSION  
INVOLVES A PROTEIN  
COMPONENT

**DP4-09** Perez-Olle, R.  
NEUROFILAMENT LIGHT GENE  
MUTATIONS LINKED TO  
CHARCOT-MARIE-TOOTH  
DISEASE CAUSE ASSEMBLY AND  
TRANSPORT DEFECTS

**DP4-10** Soto-Otero, R.  
THE ABILITY OF 1,2,3,4-TETRAHY-  
DROPAPAVEROLINE TO CAUSE  
OXIDATIVE STRESS: POTENTIAL  
IMPLICATIONS IN RELATION TO  
PARKINSON'S DISEASE

**DP4-11** Vivekanandhan, S.  
OXIDATIVE DAMAGE IN PERIPH-  
ERAL BLOOD LEUKOCYTE DNA OF  
PARKINSON'S DISEASE PATIENTS

**DP4-12** Petri, S.  
THALIDOMIDE, REVIMID BLOCK  
TNF-ALPHA MEDIATED  
MOTONEURON CELL DEATH IN  
TRANSGENIC MOUSE MODEL  
OF AMYOTROPHIC LATERAL  
SCLEROSIS

**DP4-13** Sribnick, E.A.  
INCREASED CALPAIN  
EXPRESSION AND NEURONAL  
APOPTOSIS IN SPINAL CORD OF  
MOUSE WITH MPTP INDUCED  
PARKINSON'S DISEASE

Continued



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**8:30 am – 9:45 am Posters – Wednesday, August 18 Foyer/Basildon**

**DP4-14** Sava, V.  
MAPPING THE BRAIN'S DNA REPAIR RESPONSE TO AN ACUTE DOSE OF MPTP

**DP4-15** Krivit, W.C.  
GLOBOID CELL LEUKODYSTROPHY (KRABBE DISEASE): NORMAL UMBILICAL CORD BLOOD GALACTOCEREBROSIDASE ACTIVITY AND POLYMORPHIC MUTATIONS

**DP4-16** Shinar, Y.  
THE SECONDARY STRUCTURE OF ASPARTOACYLASE AND ITS CANAVAN VARIANTS: A PREDICTION.

**DP4-17** Kim, Y.  
MATRIX METALLOPROTEINASE-3 INHIBITION PREVENTS DOPAMINE NEURONAL DEGENERATION

**DP5-01** Liu, A.  
HIGH EXPRESSION OF STATHMIN BLOCKS OLIGODENDROCYTE BRANCHING AND ENHANCES OLIGODENDROCYTE DEATH

**DP5-02** Hadzic, T.  
EXPRESSION OF NKX2.2 TRANSCRIPTION FACTOR IN GRAY MATTER NG2 CELLS

**DP5-03** Boullerne, A.I.  
STUDY OF ADULT HUMAN OLIGODENDROCYTES PROLIFERATION IN LONG-TERM CULTURE

**DP5-04** Shankar, S.L.  
GAS6 SIGNALING THROUGH THE AXL RECEPTOR PROTECTS OLIGODENDROCYTES FROM TNF $\alpha$ -INDUCED APOPTOSIS

**DP5-05** Calatayud, C.A.  
MECHANISMS INVOLVED IN THE ACTIVATION OF MBP PROMOTER IN AN OLIGODENDROGLIAL CELL LINES BY A DECREASE IN THE PROTEASOME ACTIVITY

**DP5-06** Osterhout, D.J.  
MOLECULAR CHANGES IN ADULT OLIGODENDROCYTE PROGENITOR CELLS

**DP5-07** Ortiz, E.  
FYN IS INVOLVED IN OLIGODENDROGLIAL CELL DIFFERENTIATION INDUCED BY APOTRANSFERRIN

**DP5-08** Garcia, C.I.  
CDNA ARRAY ANALYSIS IN TWO OLIGODENDROGLIAL CELL LINES OVEREXPRESSING TRANSFERRIN SHOWS DIFFERENTIAL MATURATION GENE PROFILE

**DP5-09** Murtie, J.C.  
IMPAIRED OLIGODENDROCYTE REGENERATION FROM PDGF $\alpha$ R DELETION IS IMPROVED BY ABSENCE OF FGF2

**DP5-10** Larocca, J.N.  
RAB22B IS INVOLVED IN THE TRANSPORT OF NEWLY SYNTHESIZED LYSOSOMAL PROTEINS FROM TGN TO ENDOSOMES

**DP5-11** Fox, M.A.  
PHOSPHODIESTERASE-1 $\alpha$ /AUTOTAXIN CONTROLS CYTOSKELETAL ORGANIZATION, FAK PHOSPHORYLATION AND PROCESS FORMATION IN OLIGODENDROCYTES

**DP5-12** Paez, P.M.  
DIFFERENTIAL MODULATION OF MBP EXPRESSION IN TWO OLIGODENDROGLIAL CELL LINES

**DP5-13** Cui, Q.L.  
MULTIPLE PATHWAYS MEDIATE IGF-I-INDUCED OLIGODENDROCYTE PROGENITOR PROLIFERATION

**DP5-14** Bansal, R.  
EFFECTS ON PROLIFERATION, DIFFERENTIATION AND MAPK ACTIVATION ARE INHIBITED BY PD173074 IN OLIGODENDROCYTE-LINEAGE CELLS

**DP5-15** Bansal, R.  
SULFATIDE IS A NEGATIVE REGULATOR OF OLIGODENDROCYTE DIFFERENTIATION: ANALYSIS OF SULFATIDE-NULL MICE

**DP5-16** Romanelli, R.J.  
MECHANISMS OF IGF-I AND TRKC TRAFFICKING AND SIGNALING IN OLIGODEDROCYTE PROGENITORS

**DP5-17** Setton-Avruj, C.P.  
IRON AND HOLOTRANSFERRIN PROMOTE SCHWANN CELL DIFFERENTIATION

**DP5-18** Itoh, T.  
BAX IS THE PRINCIPAL PROAPOPTOTIC BCL-2-RELATED PROTEIN DURING DIFFERENTIATION OF THE OLIGODENDROGLIAL LINEAGE

**DP5-19** Kaga, Y.  
CONDITIONAL INACTIVATION OF FGF RECEPTOR-2 DISPLAYS SUBTLE ABNORMALITIES OF MYELIN BUT A DRAMATIC HYPERACTIVE SPINNING PHENOTYPE

**DP6-01** Boldyrev, A.  
NA/K-ATPASE INVOLVES IN SIGNAL TRANSDUCTION PATHWAY IN NEURONS VIA REGULATION OF REACTIVE OXYGEN SPECIES (ROS)

**DP6-02** Bullock, S.A.  
DIFFERENTIAL REGULATION OF PROTEIN PHOSPHATASE-1 COMPLEXES FROM PIG BRAIN BY NEURABIN-1

**DP6-03** Lundquist, J.J.  
A COVALENTLY-BOUND EXTRACELLULAR SIGNAL REGULATED KINASE COMPLEX REVEALED THROUGH LTP-INDUCING STIMULI

**DP6-04** Mosevitsky, M.I.  
DETERGENT STABLE DOMAINS OF SYNAPTOSOMAL MEMBRANE (RAFTS) ARE HETEROGENOUS IN RESPECTS OF LIPIDS AND RAFT BOUND "SIGNAL" PROTEINS

**DP6-05** Bhat, N.R.  
ELIXIR(LXR)S FOR MODULATING GLIAL FUNCTIONS: SUPPRESSION OF INFLAMMATORY RESPONSE AND STIMULATION OF MYELIN GENE EXPRESSION

Continued



Continued

8:30 am – 9:45 am Posters – Wednesday, August 18 Foyer/Basildon

**DP6-06** Lezama, R.A.  
ERBB4 RECEPTOR, PI3K AND FAK  
INTEGRATE AN OSMOSENSORY  
COMPLEX IN CEREBELLAR  
GRANULE NEURONS

**DP6-07** Salvador, G.A.  
ASSOCIATION OF RHOA WITH  
PHOTORECEPTOR ROD OUTER  
SEGMENTS. ITS PARTICIPATION  
IN PLD REGULATION

**DP6-08** Foley, T.D.  
IDENTIFICATION AND OXIDANT  
SENSITIVITY OF THE MAJOR  
MAPK PHOSPHATASE FROM RAT  
BRAIN

**DP6-09** Zakharov, V.V.  
CLEAVAGE OF BRAIN PROTEINS  
GAP-43 AND BASP1 BY CALPAIN  
AND ITS REGULATION BY  
PROTEIN KINASE C AND  
CALMODULIN

**DP6-10** Haskew-Layton, R.E.  
HYDROGEN PEROXIDE POTENTI-  
ATES VOLUME REGULATED  
ANION CHANNELS VIA A  
MECHANISM INVOLVING  
CA<sup>2+</sup>/CALMODULIN-DEPENDENT  
KINASE II

**DP7-01** Tasca, C.I.  
GUANINE DERIVATIVES PRO-  
MOTE TRANSPORTER-MEDIATED  
GLUTAMATE RELEASE IN  
SYNAPTOSOMES

**DP7-02** Nualart, F.J.  
VENTRICULAR POLARIZATION  
OF SODIUM VITAMIN C  
COTRANSPORTER SVCT2 IN  
HYPOTHALAMIC GLIAL CELLS

**DP7-03** Garcia, M.A.  
LACTATE AND GLUCOSE  
TRANSPORTERS EXPRESSION IN  
BRAIN GLIAL CELLS AND  
HYPOTHALAMIC TANCYTES

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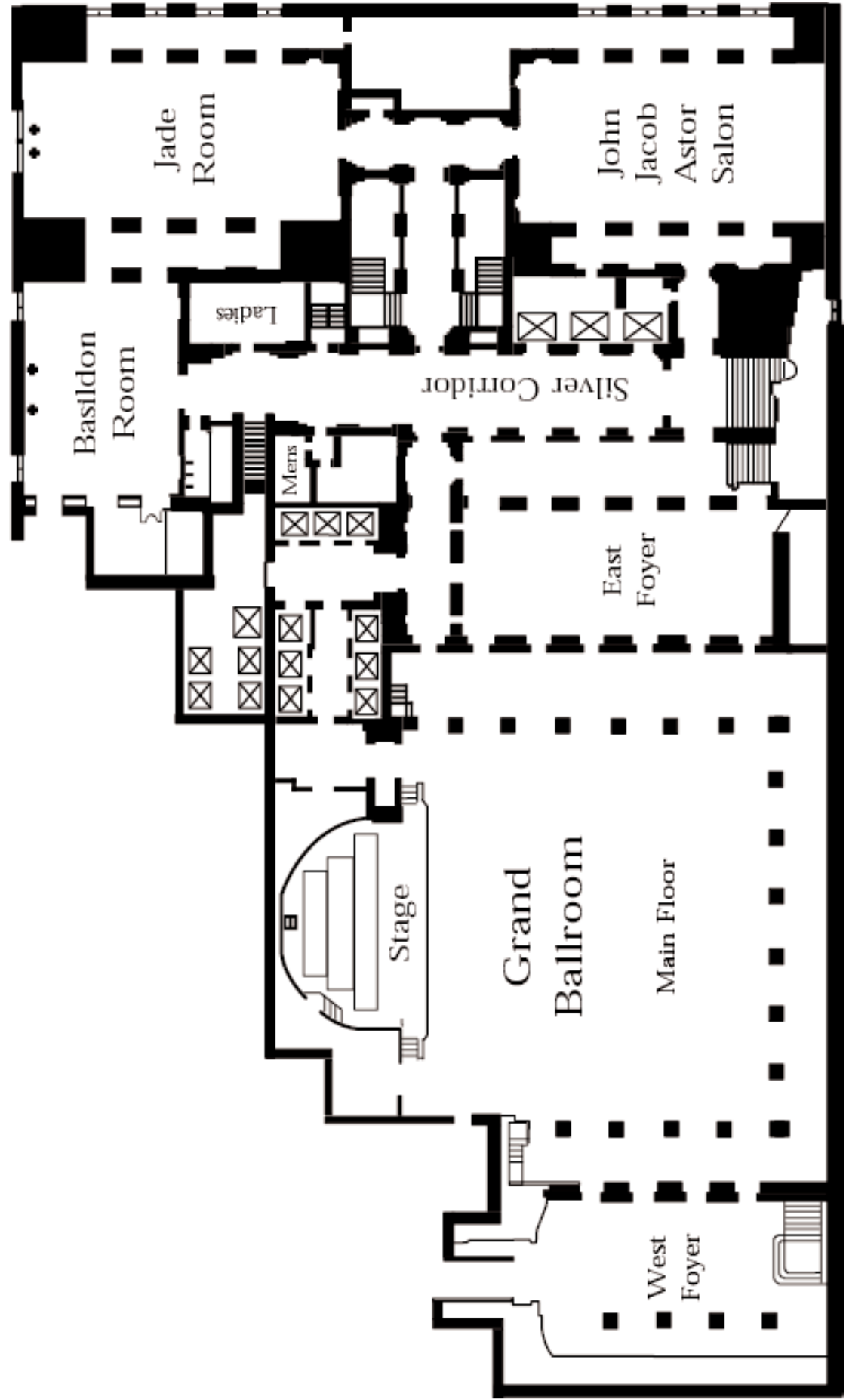
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