



AMERICAN SOCIETY
FOR NEUROCHEMISTRY

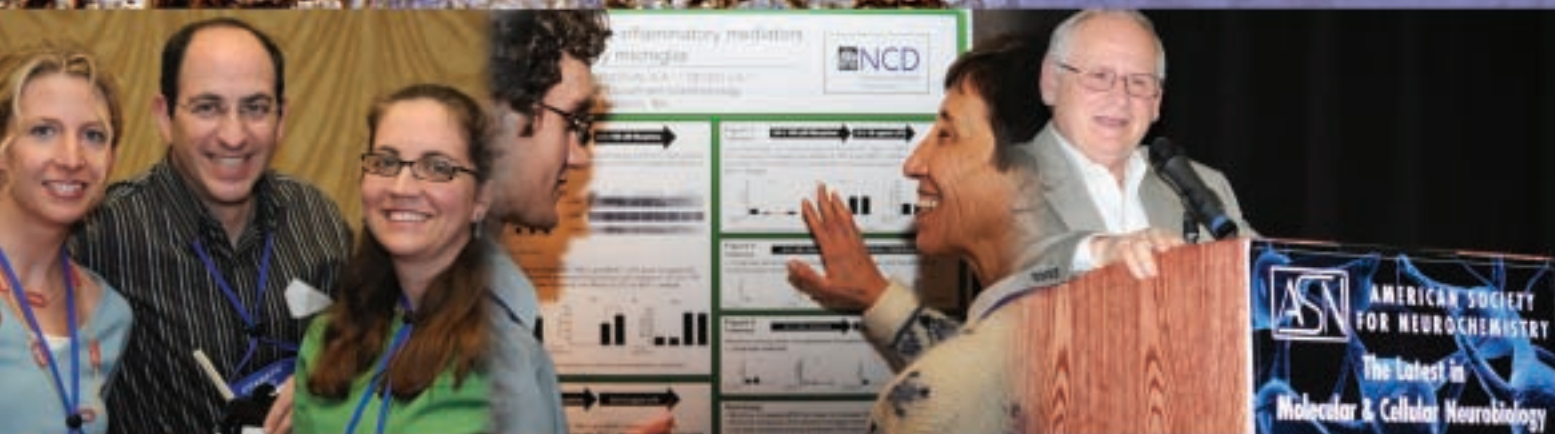
*The Latest in Molecular and
Cellular Neurobiology*

**PRELIMINARY
PROGRAM**

41st
Annual
Meeting

Santa Fe,
New Mexico
March 6–10
2010

Welcome



www.ASNeurochem.org



PRELIMINARY PROGRAM

AMERICAN SOCIETY FOR NEUROCHEMISTRY

The Latest in Molecular and Cellular Neurobiology

Pre-Meeting Workshop – Saturday, March 6, 2010

Focus on imaging Neuro-glia interactions in Health and Disease

Co-organizers: Monica Carson, Emma Wilson and Vlad Parpura

This one day pre-meeting workshop will cover cutting edge methodologies for imaging and quantifying the molecular basis of neuro-glia interactions from the very small ("kiss and run" vesicle interactions with the cellular membrane) to the very large (cell migration and cellular activation within the CNS of living animals). Invited speakers will discuss the potential uses, the strengths and the limitations of flow cytometry, magnetic resonance imaging, atomic force microscopy, two-photon microscopy, detection of second harmonic structures, all in conjunction with more standard histologic approaches in the detection and analysis of intracellular and intercellular interactions. Focus will be demonstrating how these methods have contributed to defining the significance and consequence of neuro-glia interactions during development, aging, neuroinflammatory disorders and as modulators of neuronal function in the healthy mature CNS. Registered attendees will receive contact list of pre-meeting speakers and registrants, session abstracts and abbreviated ppt presentations from invited speakers. During the workshop, attendees will have time to meet and discuss covered research issues with speakers. The workshop will end with a general discussion by participants and speakers moderated by Dr. Dittel on general and specific issues facing researchers trying to elucidate mechanisms and consequences of neuro-glia interactions.

Invited speakers:

Devin K. Binder (University of California Riverside)
Astrid Cardona (University of Texas San Antonio)
Monica Carson (University of California Riverside)
Bonnie Dittel (Blood Research Institute)

Andre Obenaus (Loma Linda University)
Vlad Parpura (University of Alabama at Birmingham)
Emma Wilson (University of California Riverside)

8:15 am – 8:30 am	Welcome Welcome and overview of Workshop: Monica J. Carson Chair and Moderator of AM session: Vlad Parpura
8:30 am – 9:15 am	Introduction to basic histochemical and immunofluorescent techniques to analyze CNS lesions in response to autoimmune inflammation Astrid Cardona
9:15 am – 10:00 am	Using Flow Cytometry to analyze neuro-glia interactions: It not just for immunologists! Monica J. Carson
9:45 am – 10:15 am	Creating Opportunities and Changing Expectations after SCI: The Lakeshore Foundation Jeffrey T. Underwood
10:00 am – 10:30 am	Coffee/Tea Break
10:30 am – 11:15 am	Exocytosis in astrocytes: Emphasis on single vesicle/molecule measurements Vlad Parpura
11:15 am – 12:00 pm	Optical detection of the pre-seizure state Devin Binder
12:00 am – 1:15 pm	Lunch Break Chair and Moderator of PM session: Bonnie Dittel and Emma Wilson
1:15 pm – 2:15 pm	Imaging ain't dead: the why, how and what of using multi-photon microscopy for in vivo analysis Emma Wilson
2:15 pm – 3:00 pm	Immunocytochemical staining and real-time imaging of cultured primary neurons: A comparison Bonnie Dittel
3:00 pm – 3:30 pm	Coffee/Tea Break
3:30 pm – 4:15 pm	Non-invasive assessment of neuro-glia interactions Andre Obenaus
4:15 pm – 4:30 pm	General Questions and Discussion of Experimental Issues by Workshop Participants and All Speakers
4:30 pm – 4:45 pm	Summary and wrap-up by Bonnie Dittel

6:00 pm – 8:00 pm

ASN Welcome Reception at the New Mexico Museum of History
Sponsored by University of New Mexico

SATURDAY



PRELIMINARY PROGRAM

AMERICAN SOCIETY FOR NEUROCHEMISTRY

The Latest in Molecular and Cellular Neurobiology

Sunday, March 7, 2010

7:00 am – 6:00 pm	ASN Registration Desk Open	TBD
8:00 am – 6:30 pm	Poster Session I 1:00 pm–2:00 pm Presenters by Posters	TBD
8:15 am – 8:30 am	General Session Welcome - Doug Feinstein, President New Members Recognition Travel Awardees Recognition	Sweeney F
8:30 am – 9:30 am	Plenary Speaker-Basic Neurochemistry Lecture <i>Sponsored by TEVA</i> Rick Morimoto Stress Responses and Proteostasis Networks in Aging and Neurodegenerative Disease	Sweeney F
9:30 am – 10:00 am	Break	
10:00 am – 12:00 pm	ASN Scientific Sessions:	

Sweeney F	Sweeney A	Sweeney B
	<p>Symposium S01 Glutamate Transport: Do Regulatory Phenomena Inform Physiology or Pathology? Chair: Philip Beart</p> <p>S01-01 Hampson, D.R. Glutamate Transporter Coupling to the Sodium/Potassium Pump</p> <p>S01-02 Robinson, M.B. Analysis of proteins that interact with the glial glutamate transporter, GLT-1 (EAAT2)</p> <p>S01-03 Beart, P.M. Homeostasis of glutamate transport: links to astrocyte phenotype and transcriptome?</p> <p>S01-04 Rothstein, J.D. Pathways for Astroglial regulation of Neuronal Function: Astroglial Glutamate and monocarboxylate transporter (MCT1)</p>	<p>Symposium S02 Gap junctions in glial function and dysfunction: Potential roles in neurological disorders Chair: Christian Naus</p> <p>S02-01 Naus, C.C. Connexins and Neuronal Migration: Mapping the Gap</p> <p>S02-02 Giaume, C. Hemichannels and brain inflammation</p> <p>S02-03 Scherer, S.S. How Mutations in Gap Junctions Cause Glial Diseases</p> <p>S02-04 Carlen, P.L. Glial gap junctional communication in seizure models</p>

12:00 pm – 1:00 pm	Lunch with Plenary Speaker - Dr. Morimoto <i>Sponsored by TEVA</i> Ticket Required	TBD
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SUNDAY

PRELIMINARY PROGRAM

41st Annual Meeting
Santa Fe, New Mexico – 2009



Sunday, March 7, 2010

2:00 pm – 4:00 pm

ASN Scientific Sessions:

Sweeney F	Sweeney A	Sweeney B
<p>Colloquium C01 Lipidomics in Neurochemistry Chair: Thomas Seyfried</p> <p>C01-01 Seyfried, T.N. Lipidomics in normal and abnormal neural cell function</p> <p>C01-02 Han, X. Shotgun Lipidomics and Alzheimer's Disease</p> <p>C01-03 Rosenberger, T.A. Brain ether phospholipid metabolism and the neuroinflammatory response</p> <p>C01-04 Murphy, E.J. Brain fatty acid uptake and incorporation: What kinetics tells us about downstream lipid function in brain pathophysiology</p>	<p>Colloquium C02 Molecular mechanisms of axon injury Chair: Charles Howe</p> <p>C02-01 Stys, P.K. Ion channels and receptors in axo-glial injury</p> <p>C02-02 Black, J.A. Sodium channel blockers protect central axons in inflammatory/demyelinating disease</p> <p>C02-03 Howe, C.L. CD8 Cytotoxic T Cell-mediated Injury of Demyelinated Axons in a Mouse Model of Multiple Sclerosis</p> <p>C02-04 Frohman, E.M. Modeling Axonal Degeneration in multiple sclerosis</p>	<p>Colloquium C03 – Marian Kies Indicators of axonal pathology in the CNS. Chair: Jennifer Tobin</p> <p>C03-01 McKee, A.C. Chronic Traumatic Encephalopathy in Athletes</p> <p>C03-02 Kilpatrick, T.J. Development of paraclinical markers to assess axonal damage in multiple sclerosis and animal models of the disease</p> <p>C03-03 Trapp, B.D. Axonal Degeneration and the Pathogenesis of Multiple Sclerosis</p> <p>C03-04 Tobin, J.E. Evaluating axonal pathology after acute and chronic cuprizone demyelination in mice</p>

4:00 pm – 4:30 pm

Break

SUNDAY



PRELIMINARY PROGRAM

AMERICAN SOCIETY FOR NEUROCHEMISTRY

The Latest in Molecular and Cellular Neurobiology

Sunday, March 7, 2010

4:30 pm – 6:30 pm

ASN Scientific Sessions:

Sweeney F	Sweeney A	Sweeney B
<p>Colloquium C04 Signaling in Innate Immunity: How do Cytokines, Proteases, Lipases, Oxidases, and other Innate immune genes change the brain? Chair: Antonio Noronha</p> <p>C04-01 Collins, M.A. Alcohol and brain signaling mechanisms in neurotoxicity and neuroprotection</p> <p>C04-02 Syapin, P. Innate Neuroimmune Responses to Alcohol and Other Drugs</p> <p>C04-03 Kane, C.J. Protecting Against the Innate Immune Response of Microglia Induced by Ethanol</p> <p>C04-04 Crews, F.T. Proinflammatory genes, NFkB and NOX will kill your brain stem cells</p>	<p>Colloquium C05 Chromatin and epigenetics in brain development and disease Chair: Anthony Turner</p> <p>C05-01 Svaren, J.P. The role of the NuRD remodeling complex in peripheral myelin formation</p> <p>C05-02 Wood, M.A. The role of chromatin modifying enzymes in long-term memory processes</p> <p>C05-03 Belyaev, N.D. Downregulation of the neuronal genes expression in neurodegenerative diseases</p> <p>C05-04 Agoston, D.V. The role of chromatin remodeling in cortical development</p> <p>C05-05 Roopra, A. The control of NRSF function in physiology and disease</p>	<p>Oral Presentation OP01 Neurodegeneration Chair: Harry Sontheimer</p> <p>OP01-01 Bartley, M. Overexpression of amyloid precursor protein induces mitochondrial oxidative stress and activates the intrinsic apoptosis cascade</p> <p>OP01-02 Cua, R. The metalloproteinase ADAMTS-4 promotes neurite outgrowth by degrading axon-inhibitory proteoglycans</p> <p>OP01-03 Atagi, Y. Impairment of Fast Axonal Transport in animal models of Alzheimer's Disease</p> <p>OP01-04 Youmans, K. The Effects of Human ApoE on Abeta Pathology and Synaptic Loss in a Novel Transgenic Mouse Model</p> <p>OP01-05 Benoit, M. Neuroprotective pathways stimulated by the complement protein C1q in neurons</p> <p>OP01-06 Guo, W. FXR2 regulates neuroprogenitors proliferation, differentiation, survival, and neuronal maturation in the adult hippocampus</p>

7:00 pm – 10:00 pm

Student Post Doc Mingle
Sponsored by: TBD

La Fonda

SUNDAY

PRELIMINARY PROGRAM

41st Annual Meeting Santa Fe, New Mexico – 2010



Monday, March 8, 2010

7:00 am – 6:00 pm	ASN Registration Desk Open	TBD
8:00 am – 7:00 pm	Poster Session I 1:00 pm–2:00 pm Presenters by Posters	TBD
8:00 am – 8:15 am	General Session Jordi Folch-Pi Award Presentation to: TBD	Sweeney F
8:30 am – 9:30 am	Plenary Session PL02 <i>Sponsored by International Soc Neurochemistry</i> Arturo Alvarez Buylla Role of Primary Cilia in Neural Stem Cells and Cancer	Sweeney F
9:30 am – 10:00 am	Break	
10:00 am – 12:00 pm	ASN Scientific Sessions:	

Sweeney F	Sweeney A	Sweeney B
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Sweeney F	Sweeney A	Sweeney B
	<p>Symposium S03 The SVZ in development and pathology Chair: Anne Baron-Van Evercooren</p> <p>S03-01 Chedotal, A. When axon guidance meet neural stem cells</p> <p>S03-02 Gallo, V. Fate plasticity of adult SVZ neuroblasts after demyelination</p> <p>S03-03 Baron-Van Evercooren, A. Inflammation and demyelination alter differentially the function of adult neural stem cells</p> <p>S03-04 Levison, S.W. Opposite effect of neuroinflammation on stem/progenitors of the rat SVZ vs hippocampal SGZ after cerebral hypoxia/ischemia</p>	<p>Symposium S04 Neuron-astroglia interactions in brain function and dysfunction Chair: Giorgio Carmignoto</p> <p>S04-01 Steinhäuser, C. Connexin expression by radial glial cells is required for neurogenesis in the adult dentate gyrus</p> <p>S04-02 Aronica, E. Inflammation in chronic pharmacoresistant epilepsy: experimental and human evidence</p> <p>S04-03 Kirchhoff, F. Functional role of AMPA-type glutamate receptors in Bergmann glia of the mouse cerebellum</p> <p>S04-04 Carmignoto, G. Astrocyte role in seizure initiation</p>

12:00 pm – 1:00 pm	Lunch with Plenary Speaker - Dr. Alvarez Buylla <i>Sponsored by International Soc Neurochemistry</i> Ticket Required	TBD
12:00 pm – 1:00 pm	Women in Neurochemistry (WIN) Luncheon & Discussion Ticket Required	TBD
12:00 pm – 1:30 pm	Neurochemical Research Journal Editors Lunch	TBD

MONDAY



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Monday, March 8, 2010

2:00 pm – 4:00 pm

ASN Scientific Sessions:

Sweeney F	Sweeney A	Sweeney B
<p>Colloquium C06 Human glial development: specification, induction and therapeutics Chair: Fraser Sim</p> <p>C06-01 Wang, S. Prospective identification and profiling of a telomerase expressing subpopulation of human neural stem cells</p> <p>C06-02 Chojnacki, A. Differential effects of activin signaling on the expansion of mouse and human PDGF-responsive neural precursors</p> <p>C06-03 Sim, F.J. Transcriptional regulation of glial progenitor cells in the developing human brain</p> <p>C06-04 Windrem, M.S. Human glial progenitor cells out-compete endogenous progenitors to create humanized glial-chimeric mouse brains</p>	<p>Colloquium C07 Brain Macrophages and Phagocyte-Regulatory Signals in Health and Disease of Developing Nervous System Chair: Gennadij Raivich</p> <p>C07-01 Verney, C. Microglial colonisation of the developing human brain and its involvement in white matter injury in the preterm infant</p> <p>C07-02 Raivich, G. Molecular signals in inflammation and perinatal brain damage</p> <p>C07-03 Freeman, M.R. Recognition and engulfment of neuronal debris in the Drosophila brain</p> <p>C07-04 Pocock, J.M. Neurotransmitter-mediated TNF alpha-driven microglial neurotoxicity</p>	<p>Oral Presentation OP02 Myelin and oligodendrocytes Chair: Vittorio Gallo</p> <p>OP02-01 Weinstein, J. Demonstration of Ischemic Preconditioning in White Matter: Critical Role for Toll-like Receptor-4</p> <p>OP02-02 Tanner, D. OPCs reversably exit the cell cycle and give rise to reactive astrocytes in response to IFN</p> <p>OP02-03 Osterhout, D. Chondroitinase treatment enhances the migration of oligodendrocyte progenitor cells in vivo after spinal cord injury</p> <p>OP02-04 Jacobson, B. Neuregulin-1 types I & III differentially affect oligodendrocyte generation & myelin thickness after spinal cord injury</p> <p>OP02-05 Boullerne, A. Olig1 is re-expressed in human oligodendrocyte remyelination</p> <p>OP02-06 Lau, L. Differential accumulation and roles of chondroitin sulfate proteoglycans and laminins during de- and re-myelination</p>

MONDAY

PRELIMINARY PROGRAM

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Monday, March 8, 2010

4:30 pm – 6:30 pm

ASN Scientific Sessions:

Sweeney F	Sweeney A	Sweeney B
<p>Colloquium C08 Microglial Heterogeneity and the Protection of Brain Function Chair: Carol Colton</p> <p>C08-01 Colton, C.A. Immune activation states in Alzheimer's disease and in mouse models of AD</p> <p>C08-02 Bergmann, C.C. RNase L mediated protection from virus induced demyelination</p> <p>C08-03 Carson, M.J. From birth to old age, microglia as biosensors and effectors of neuroprotection and neurotoxicity</p> <p>C08-04 Jalabi, W. Microglia activation and neuroprotection during CNS preconditioning</p>	<p>Colloquium C09 Hypothalamic plasticity: A complex and multifaceted problem Chair: Vincent Prevot</p> <p>C09-01 Giacobini, P. Semaphorin7A guides migration of GnRH-1 neurons through $\alpha 5$ and $\alpha 6$ integrins</p> <p>C09-02 Prevot, V. Hypothalamic vascular glial plasticity in control of neuroendocrine synapse formation</p> <p>C09-03 Oliet, S.H. Glia-dependent switch in kainate receptor activity in the rat supraoptic nucleus</p> <p>C09-04 Horvath, T.L. A Critical Role for Mitochondrial Adaptation in Synaptic Plasticity of Hypothalamic Circuits</p>	<p>Colloquium C10 Molecular regulation of SVZ progenitor migration to injury Chair: Francis Szele</p> <p>C10-01 Carmichael, S.T. Glial response and Oligodendrocyte Regeneration Following Ischemic white matter injury: studies in a mouse subcortical stroke model</p> <p>C10-02 Saghatelian, A. Vasculature guides migrating neuronal precursors in the adult mammalian forebrain</p> <p>C10-03 Chopp, M. Astrocytic orchestration of brain plasticity and recovery of neurological function after stroke</p> <p>C10-04 Szele, F. Galectin-3 - a novel modulator of SVZ migration</p>
6:45 pm – 8:00 pm	ASN Business Meeting All Members Invited	TBD

MONDAY



PRELIMINARY PROGRAM

AMERICAN SOCIETY FOR NEUROCHEMISTRY

The Latest in Molecular and Cellular Neurobiology

Tuesday, March 9, 2010

7:00 am – 6:00 pm	ASN Registration Desk Open	TBD
8:00 am – 6:00 pm	Poster Session III 1:00 pm–2:00 pm Presenters by Posters	TBD
8:15 am – 8:30 am	General Session Marian Kies Award Presentation to: TBD	Sweeney F
8:30 am – 9:30 am	Plenary Speaker–Thomas Sudhof <i>Sponsored by Biogen Idec</i> Neurotransmitter release - from membrane fusion to plasticity	Sweeney F
9:30 am – 10:00 am	Break	
10:00 am – 12:00 pm	ASN Scientific Sessions:	

Sweeney F	Sweeney A	Sweeney B
	<p>Symposium S05 Regulation of GABA-A Receptors: Gene Expression, Trafficking, Phosphorylation, and Associated Proteins Chair: Richard Olsen</p> <p>S05-01 Olsen, R.W. Plasticity of GABA-A receptors following acute and chronic ethanol in rats and neurons</p> <p>S05-02 Moss, S.J. The control of inhibitory synapse formation</p> <p>S05-03 Brooks-Kayal, A.R. Regulation of GABAA alpha; 1 receptor subunit expression during epileptogenesis-Implications for therapeutics</p> <p>S05-04 Russek, S.J. Genetic switches that control the number and kind of GABARs in neurons</p>	<p>Symposium S06 White Matter in Learning, Cognition, and Psychiatric Disorders: Cellular Mechanisms to Clinical Implications Chair: Douglas Fields</p> <p>S06-01 Fields, R.D. Activity-Dependent Myelination: Plasticity Beyond the Synapse</p> <p>S06-02 Bartzokis, G. The Myelin Model of the Human Brain: Implications for Treatment and Prevention of Neuropsychiatric Disorders</p> <p>S06-03 Kumra, S. Global White Matter Abnormalities in Adolescents with Schizophrenia</p> <p>S06-04 Karadottir, R. Neuregulin induces NMDA receptor dependent myelination by oligodendrocytes</p>
12:00 pm – 1:00 pm	Lunch with Plenary Speaker - Dr. Sudhof <i>Sponsored by Biogen Idec</i> Ticket Required	TBD

TUESDAY

PRELIMINARY PROGRAM

41st Annual Meeting
Santa Fe, New Mexico – 2010



Tuesday, March 9, 2010

2:00 pm – 4:00 pm

ASN Scientific Sessions:

Sweeney F	Sweeney A	Sweeney B
<p>Colloquium C011 Is Myelination With Perinatal OPCs a Good Model to Develop Therapeutics for Adult CNS Remyelination and Functional Recovery? Chair: Raul Krauss</p> <p>C011-01 Rao, M. Oligodendrocyte Lineages and Differentiation</p> <p>C011-02 Franklin, R. Is developmental myelination a good model for remyelination?</p> <p>C011-03 Tiwari-Woodruff, S.K. Variable recovery of axonal function with histologically-documented remyelination in in vivo models</p> <p>C011-04 Milbrandt, J. Molecular Mechanisms of Axonal Degeneration</p>	<p>Colloquium C013 Neurochemical actions of alcohol: new vistas from the perspective of neuronal networks Chair: Jeff Weiner</p> <p>C013-01 Valenzuela, C.F. Acute ethanol exposure bidirectionally modulates multiple synapses in the cerebellar cortex</p> <p>C013-02 Weiner, J.L. Identification of a Novel GABAergic Circuit in the Basolateral Amygdala That May Contribute to Alcohol's Anti-Anxiety Effects</p> <p>C013-03 Robinson, D.L. Real-time neurodynamics in the nucleus accumbens during alcohol reward</p> <p>C013-04 Colom, L.V. Septo-Hippocampal Networks</p> <p>C013-05 Yeh, H.H. Ethanol exposure acutely elevates muscarinic tone in the septohippocampal system</p>	<p>Oral Presentation OP03 Microglia and Inflammation Chair: Monica Carson</p> <p>OP03-01 Gensel, J. Activating toll-like receptor 2 promotes macrophage-mediated regeneration without concurrent neurotoxicity</p> <p>OP03-02 Kraft, A. A model to explore the spectrum of diverse microglial functions with injury</p> <p>OP03-03 Jayadev, S. Presenilin 2 and the Gamma-secretase Complex Modulate Microglia Cytokine Release</p> <p>OP03-04 Koerner, I. Inhibition of soluble epoxide hydrolase improves neuronal survival after global ischemia and alters microglial activation</p> <p>OP03-05 Aid, S. Neuronal overexpression of cyclooxygenase-2 does not alter the neuroinflammatory response during brain innate immune activation</p>

4:00 pm – 4:30 pm

Break

TUESDAY



PRELIMINARY PROGRAM

AMERICAN SOCIETY FOR NEUROCHEMISTRY

The Latest in Molecular and Cellular Neurobiology

Tuesday, March 9, 2010

4:30 pm – 6:30 pm

ASN Scientific Sessions:

Sweeney F	Sweeney A	Sweeney B
<p>Colloquium C012 Lipid Rafts and Hypomyelination - How Did We Get There Chair: Cara-Lynne Schengrund</p> <p>C012-01 Schengrund, C.L. Effect of expression of H63D HFE on expression of genes involved in metabolism of raft-associated lipids</p> <p>C012-02 Duke-Cohan, J.S. Attractin, lipid rafts and multi-organ failure</p> <p>C012-03 Simons, M. Protein-lipid interaction in myelin biogenesis</p> <p>C012-04 Connor, J.R. Iron Deficiency and Lipid Rafts in Oligodendrocytes</p>	<p>Colloquium C014 Regulation of anxiety and addiction by neurotrophic factors Chair: Carlos Valenzuela</p> <p>C014-01 Ron, D. GDNF - A Negative Regulator Of Alcohol Drinking Behaviors</p> <p>C014-02 McGinty, J.F. Intra-prefrontal Cortical BDNF Suppresses Cocaine-seeking by Normalizing ERK MAP Kinase and Accumbens Glutamate Neurotransmission</p> <p>C014-03 Becker, H.C. Role of BDNF in Prefrontal Cortex in Ethanol Dependence and Relapse Drinking</p> <p>C014-04 Perrone-Bizzozero, N.I. Distinct expression patterns of the long 3' UTR variant of BDNF mRNA after acute cocaine exposure and cocaine-primed reinstatement</p> <p>C014-05 Pandey, S.C. BDNF and Arc Signaling in the Amygdala: A Role in Anxiety and Alcoholism</p>	<p>Colloquium C015 Developing Neuroprotectants for Treating Victims of Chemical Emergencies Chair: David Jett</p> <p>C015-01 Wilcox, K.S. A Moderate-Throughput Screening Assay For the Identification of Novel Neuroprotective Compounds</p> <p>C015-02 Braga, M.F. Efficacy of LY293558 and UBP302 in blocking soman-induced epileptic activity and neuronal damage in the rat brain, in vivo</p> <p>C015-03 Ford, B.D. Neuregulin & #8208;1 Protects Against Organophosphorus Neurotoxin-Induced Neuroinjury</p> <p>C015-04 Dingleline, R. Neuroprotection by selective allosteric potentiators of EP2 prostaglandin receptors</p>

TUESDAY

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Tuesday, March 9, 2010

4:30 pm – 6:30 pm

ASN Scientific Sessions:

TBD	TBD	TBD
<p>Oral Presentation OP04 Building the nervous system Chair: Tony Campagnoni</p> <p>OP04-01 Liu, C. Epigenetic regulation of miR-184 by Mbd1 governs neural stem cell proliferation and differentiation</p> <p>OP04-02 McPherson, C. Potential role of interleukin-1 and 6 in young and adult mice during injury-induced hippocampal neurogenesis.</p> <p>OP04-03 Mogha, A. Signaling by the 5-HT1A Receptor Causes Postnatal Synaptogenesis in the Hippocampus</p> <p>OP04-04 Smrt, R. Methyl-CpG binding protein Mecp2 regulates expression of a miRNA important for neuronal maturation</p> <p>OP04-05 Lu, Z. Thrombospondin 1 - a key astrocyte-derived neurogenic factor</p> <p>OP04-06 Filosa, J. Astrocytes as key sensors in vascular to neuronal communication.</p>		

TUESDAY



PRELIMINARY PROGRAM

AMERICAN SOCIETY FOR NEUROCHEMISTRY

The Latest in Molecular and Cellular Neurobiology

Wednesday, March 10, 2010

7:00 am – 5:00 pm	ASN Registration Desk Open	TBD
8:00 am – 5:00 pm	Poster Session II 2:00 pm–3:00 pm Presenters by Posters	TBD
8:00 am – 4:30 pm	ASN Scientific Sessions	Sweeney Ballrooms
8:15 am – 10:15 am	ASN Scientific Sessions:	

Sweeney F	Sweeney A	Sweeney B
	<p>Symposium S07 Glia-neuronal communication as a substrate for pain Chair: David Spray</p> <p>S07-01 Ji, R.R. Neuronal and glial interactions via matrix metalloproteases and cytokines contribute to persistent pain and opioid analgesia</p> <p>S07-02 Huang, L.M. Purinergic receptors in neuronal soma-satellite glial cell signalling</p> <p>S07-03 Hanani, M. Intercellular Communication in Sensory Ganglia by Purinergic Receptors and Gap Junctions: Implications for Chronic Pain</p> <p>S07-04 Salter, M.W. Purinergic signaling in neuropathic pain hypersensitivity</p>	<p>Symposium S08 – Jodi-Folch Pi Emerging therapeutic targets in neuroinflammation and neurodegenerative diseases Chair: Francesca Bosetti</p> <p>S08-01 Wyss-Coray, T. Exploring the role of the systemic environment in brain aging and neuroinflammation</p> <p>S08-02 Ransohoff, R.M. Chemokines and their receptors: Challenging therapeutic targets for neuroinflammation and neurodegeneration</p> <p>S08-03 Tenner, A.J. Putting a Brake on Neurodegeneration by Selective Control of Complement-induced Neuroinflammation</p> <p>S08-04 Breitner, J. Effect of nonsteroidal anti-inflammatory drugs on the pathogenesis of Alzheimer's disease – lessons from the Alzheimer's Disease Anti-inflammatory Prevention Trial (ADAPT)."</p> <p>S08-05 Bosetti, F. Cyclooxygenases -1 and -2 in neuroinflammation: friends or foes?</p>
10:15 am – 10:45 am	Break	

WEDNESDAY

PRELIMINARY PROGRAM

41st Annual Meeting Santa Fe, New Mexico – 2010



Wednesday, March 10, 2010

10:45 am – 12:45 pm

ASN Scientific Sessions:

Sweeney F	Sweeney A	Sweeney B
<p>Colloquium C016 Regulated exocytosis of neuroligands from astrocytes Chair: Vlad Parpura</p> <p>C16-01 Parpura, V. Exocytotic release of glutamate from astrocytes</p> <p>C16-02 Zorec, R. Trafficking and Regulated Exocytosis of Vesicles in Astrocytes</p> <p>C16-03 Mothet, J.P. Latest avenue on the machinery for d-serine release</p> <p>C16-04 Dreyfus, C.F. BDNF is released from astrocytes and oligodendrocytes through a regulated process mediated by metabotropic receptors</p>	<p>Colloquium C017 Astrocytes: Gatekeepers at the Checkpoint of CNS Homeostasis and Pathology Chair: Tammy Kielian</p> <p>C17-01 Messing, A. Astrocytes and Alexander Disease</p> <p>C17-02 Kielian, T. Region-dependent alterations in astrocyte gap junction communication and electrophysiological properties in brain abscesses?</p> <p>C17-03 Pekny, M. Reactive astrocytes as a hindrance to generation/survival of replacement cells after trauma, astrocyte control of neurogenesis</p> <p>C17-04 Bethea, J.R. Astrocytes play an important role in oligodendrocyte death and demyelination.</p>	<p>Colloquium C021 Axonal Pathology in Myelin Disease Chair: Bruce Trapp</p> <p>C21-01 Nave, K.A. Glial support of axon function and survival</p> <p>C21-02 Peles, E. How Schwann cells control the clustering of sodium channels at nodes of Ranvier?</p> <p>C21-03 Ohno, N. Myelination and demyelination alter the motility and distribution of axonal mitochondria</p> <p>C21-04 Trapp, B.D. Dysmyelination and Axonal Integrity</p>

TBD

Oral Presentation OP05
Metabolism and Cell/Molecular Neuroscience

Chair: Sandra Hewett

OP05-01 Smith, G.
Classic Isoforms Of Myelin Basic Protein Associate With The Cytoskeleton In Oligodendroglial Cells During Ruffling

OP05-02 Rowley, N.
Expression of the Betaine/GABA Transporter Following Status Epilepticus

OP05-03 Harms, K.
Neural Stem/Progenitor Cells Display a Glycolytic Metabolic Phenotype Under Aerobic Conditions

OP05-04 Potter, W.
Metabolic regulation of neuronal plasticity by the energy sensor AMPK

OP05-05 Bamm, V.
Interaction of Myelin Basic Protein with Actin in the Presence of DPC micelles as a Membrane Mimetic

OP05-06 Kozel, M.
The Role of FGF14 in Purkinje Neuron Excitability

12:45 pm – 1:45 pm

Lunch with Plenary Speaker – Dr. MacVicar
Sponsored by International Society for Neurochemistry
Ticket Required

1:45 pm – 2:45 pm

Poster Session II, Authors Present Refreshments *Sponsored by:*
TBD

WEDNESDAY



PRELIMINARY PROGRAM

AMERICAN SOCIETY FOR NEUROCHEMISTRY

The Latest in Molecular and Cellular Neurobiology

Wednesday, March 10, 2010

2:45 pm – 4:45 pm

ASN Scientific Sessions:

Sweeney F	Sweeney A	Sweeney B
<p>Colloquium C018 Tweaking the lactate shuttle: Brainstorming turns things around – lactate flow from neurons to astrocytes, among astrocytes, and to vasculature Chair: Gerald Dienel</p> <p>C18-01 Dienel, G.A. Astrocytes are poised for dispersal and release of lactate from activated brain</p> <p>C18-02 Mangia, S. Investigating the role of lactate and glucose during neuronal activation by analyzing in vivo MRS experimental evidences</p> <p>C18-03 Rae, C. Metabolic effects of blocking lactate transport in brain cortical tissue slices using an inhibitor specific to MCT1 and MCT2</p> <p>C18-04 Bak, L.K. Glucose utilization is seminal for glutamatergic neurons during synaptic activity</p>	<p>Colloquium C019 Microglia: Friend or Foe Chair: Jyoti Watters</p> <p>C19-01 Kriz, J. Function and live imaging of microglial activation in brain injuries</p> <p>C19-02 Vallires, L. Brain tumor-associated macrophages: good or bad?</p> <p>C19-03 Watters, J.J. Oxygen history influences nucleotide effects on microglial inflammatory gene expression</p> <p>C19-04 Todd, K.G. Whether microglia are trophic or toxic depends in part on the severity of neuronal injury</p> <p>C19-05 Nikodemova, M. Murine strain differences in microglial activities</p>	<p>Colloquium C020 Non-invasive imaging of myelin Chair: Jugnu Jain</p> <p>C20-01 Miller, R.H. Need for reproducible demyelination/remyelination animal models for validating new imaging tools</p> <p>C20-02 Ghandour, M.S. DT-MRI evaluations of myelin disorders and repair</p> <p>C20-03 Wang, Y. Direct Quantification of Myelin Changes in the Vertebrate Nervous System</p> <p>C20-04 Chen, J.T. Human brain magnetic resonance imaging of myelin for clinical trials</p> <p>C20-05 Kolb, H.C. Click Chemistry-Based Development of PET Imaging Biomarkers</p>

5:00 pm – 6:00 pm	<p>Plenary Speaker-Brian MacVicar <i>Sponsored by:</i> <i>International Society for Neurochemistry</i> Astrocyte regulation of the cerebrovasculature</p>	Sweeney F
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7:30 pm – 11:30 pm	<p>ASN Closing Party Ticket Required</p>	La Fonda
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REGISTER TODAY!

WEDNESDAY