Journal of Neuroscience

The Official Journal of the Society for Neuroscience

April 15, 1996 Volume 16 Number 8

Articles are grouped according to the section to which they were submitted and are presented in the following sequence: Cellular/Molecular, Developmental, Systems, and Behavioral Neuroscience.

2421	Inwardly Rectifying K ⁺ Channels that May Participate in K ⁺ Buffering Are Localized in Microvilli of Schwann Cells Huaiyu Mi, Thomas J. Deerinck, Maggie Jones, Mark H. Ellisman, and Thomas L. Schwarz
2430	β Subunit Coexpression and the α_1 Subunit Domain I–II Linker Affect Piperidine Block of Neuronal Calcium Channels Gerald W. Zamponi, Tuck W. Soong, Emmanuel Bourinet, and Terry P. Snutch
2444	Protein Synthesis-Dependent Formation of Protein Kinase $M\zeta$ in Long-Term Potentiation Pavel Osten, Lengko Valsamis, Alexander Harris, and Todd Charlton Sacktor
2452	Myelin Basic Protein Gene Expression in Neurons: Developmental and Regional Changes in Protein Targeting within Neuronal Nuclei, Cell Bodies, and Processes Charles F. Landry, Julie A. Ellison, Thomas M. Pribyl, Celia Campagnoni, Kathy Kampf, and Anthony T. Campagnoni
2463	Narp, a Novel Member of the Pentraxin Family, Promotes Neurite Outgrowth and Is Dynamically Regulated by Neuronal Activity Cynthia C. Tsui, Neal G. Copeland, Debra J. Gilbert, Nancy A. Jenkins, Carol Barnes, and Paul F. Worley
2479	Resistance to Neurotoxicity in Cortical Cultures from Neuronal Nitric Oxide Synthase-Deficient Mice Valina L. Dawson, Victor M. Kizushi, Paul L. Huang, Solomon H. Snyder, and Ted M. Dawso
2488	CASK: A Novel dlg/PSD95 Homolog with an N-Terminal Calmodulin-Dependent Protein Kinase Domain Identified by Interaction with Neurexins Yutaka Hata, Stefan Butz, and Thomas C. Südhof
2495	Cloning of P2X ₅ and P2X ₆ Receptors and the Distribution and Properties of an Extended Family of ATP-Gated Ion Channels Ginetta Collo, R. Alan North, Eric Kawashima, Emilio Merlo-Pich, Sybille Neidhart, Annmarie Surprenant, and Gary Buell
2508	Brain Microglia/Macrophages Express Neurotrophins that Selectively Regulate Microglial Proliferation and Function Stella Elkabes, Emanuel M. DiCicco-Bloom, and Ira B. Black
2522	Inhibition of the Kv4 (<i>Shal</i>) Family of Transient K ⁺ Currents by Arachidonic Acid <i>Alvaro Villarroel and Thomas L. Schwarz</i> (Reprinted because of a printing error in Vol. 16, No. 3.)

2532	Whole-Cell Chloride Currents in Rat Astrocytes Accompany Changes in Cell Morphology Christopher D. Lascola and Richard P. Kraig
2546	Extracellular Human Immunodeficiency Virus Type 1 Tat Protein Promotes Aggregation and Adhesion of Cerebellar Neurons Michael J. Orsini, Christine M. Debouck, Christine L. Webb, and Paul G. Lysko
2553	Astrocytes Protect Neurons from Hydrogen Peroxide Toxicity Solange Desagher, Jacques Glowinski, and Joël Premont
2563	Role of Glutamic Acid Decarboxylase in the Prepubertal Inhibition of the Luteinizing Hormone Releasing Hormone Release in Female Rhesus Monkeys Dai Mitsushima, Farshid Marzban, Laure L. Luchansky, Andrew J. Burich, Kim L. Keen, Maureen Durning, Thaddeus G. Golos, and Ei Terasawa
2574	Acetylcholine-Induced Potassium Current of Guinea Pig Outer Hair Cells: Its Dependence on a Calcium Influx through Nicotinic-Like Receptors Christophe Blanchet, Carlos Eróstegui, Masashi Sugasawa, and Didier Dulon
2585	Action Potential Initiation Site Depends on Neuronal Excitation Rosemary Melinek and Kenneth J. Muller
2592	Muscarinic (m2/m4) Receptors Reduce N- and P-Type Ca ²⁺ Currents in Rat Neostriatal Cholinergic Interneurons through a Fast, Membrane-Delimited, G-Protein Pathway <i>Zhen Yan and D. James Surmeier</i>
2605	The Pharmacology of Mesolimbic Dopamine Neurons: A Dual-Probe Microdialysis Study in the Ventral Tegmental Area and Nucleus Accumbens of the Rat Brain B. H. C. Westerink, HF. Kwint, and J. B. deVries
2612	Inhibition of Calcium Channels in Rat Central and Peripheral Neurons by ω-Conotoxin MVIIC Stefan I. McDonough, Kenton J. Swartz, Isabelle M. Mintz, Linda M. Boland, and Bruce P. Bean
2624	mCD24, a Glycoprotein Transiently Expressed by Neurons, Is an Inhibitor of Neurite Outgrowth Derryck Shewan, Viviane Calaora, Peter Nielsen, James Cohen, Geneviève Rougon, and Ilervé Moreau
2635	Expanded CNS Myelin Sheaths Formed In Situ in the Presence of an IgM Antigalactocerebroside-Producing Hybridoma Jack Rosenbluth, Wei-Lan Liang, Zhiguang Liu, Danzhu Guo, and Rolf Schiff
2642	Arrest of Afferent Axon Extension by Target Neurons In Vitro Is Regulated by the NMDA Receptor Douglas H. Baird, Ekkhart Trenkner, and Carol A. Mason
2649	In Vivo Growth Factor Expansion of Endogenous Subependymal Neural Precursor Cell Populations in the Adult Mouse Brain Constance G. Craig, Vince Tropepe, Cindi M. Morshead, Brent A. Reynolds, Samuel Weiss, and Derek van der Kooy

2659	Oligodendrocyte Progenitor Cell Proliferation and Lineage Progression Are Regulated by Glutamate Receptor-Mediated K ⁺ Channel Block Vittorio Gallo, Jia Min Zhou, Chris J. McBain, Paul Wright, Peter L. Knutson, and Regina C. Armstrong
2671	Dual Somatotopical Representations in the Primate Subthalamic Nucleus: Evidence for Ordered but Reversed Body-Map Transformations from the Primary Motor Cortex and the Supplementary Motor Area Atsushi Nambu, Masahiko Takada, Masahiko Inase, and Hironobu Tokuno
2684	Effects of Chronic Morphine Administration on μ Opioid Receptor-Stimulated [35 S]GTP γ S Autoradiography in Rat Brain Laura J. Sim, Dana E. Selley, Steven I. Dworkin, and Steven R. Childers
2693	Complexity Affects Regional Cerebral Blood Flow Change during Sequential Finger Movements Norihiro Sadato, Gregory Campbell, Vicente Ibáñez, Marie-Pierre Deiber, and Mark Hallett
2701	Physiological and Morphological Identification of Somatostatin- or Vasoactive Intestinal Polypeptide-Containing Cells among GABAergic Cell Subtypes in Rat Frontal Cortex Yasuo Kawaguchi and Yoshiyuki Kubota
2716	Peripheral Cell Types Contributing to the Hyperalgesic Action of Nerve Growth Factor in Inflammation Clifford J. Woolf, Qing-Ping Ma, Andrew Allchorne, and Stephen Poole
2724	Contributions of Individual Layer 6 Pyramidal Neurons to Local Circuitry in Macaque Primary Visual Cortex Anne K. Wiser and Edward M. Callaway
2740	Intrinsic Optical Signals in Rat Neocortical Slices Measured with Near-Infrared Dark-Field Microscopy Reveal Changes in Extracellular Space Knut Holthoff and Otto W. Witte
2750	Abnormal Tactile Experience Early in Life Disrupts Active Touch George E. Carvell and Daniel J. Simons
2758	Spinal Amino Acid Release and Precipitated Withdrawal in Rats Chronically Infused with Spinal Morphine K. H. Jhamandas, M. Marsala, T. Ibuki, and T. L. Yaksh
2767	Spatiotemporal Properties of Short-Term Plasticity in Sensorimotor Thalamocortical Pathways of the Rat Manuel A. Castro-Alamancos and Barry W. Connors
2780	The Hippocampus and Long-Term Object Memory in the Rat Norbert Vnek and Lawrence A. Rothblat
2788	Synchronization of Fast (30–40 Hz) Spontaneous Oscillations in Intrathalamic and Thalamocortical Networks Mircea Steriade, Diego Contreras, Florin Amzica, and Igor Timofeev

- 2809 Hippocampal and Neocortical Cell Assemblies Encode Memory Processes for Different Types of Stimuli in the Rat *Yoshio Sakurai*
- 2820 Microdialysis Perfusion of 8-Hydroxy-2-(Di-n-Propylamino)Tetralin (8-OH-DPAT) in the Dorsal Raphe Nucleus Decreases Serotonin Release and Increases Rapid Eye Movement Sleep in the Freely Moving Cat

 Chiara M. Portas, Mahesh Thakkar, Donald Rainnie, and Robert W. McCarley
- 2829 Impaired Classical Eyeblink Conditioning in Cerebellar-Lesioned and Purkinje Cell Degeneration (pcd) Mutant Mice
 Lu Chen, Shaowen Bao, Jon M. Lockard, Jeansok J. Kim, and Richard F. Thompson
- 2839 Tests of the Motor Neuron Model of the Local Pattern-Generating Circuits in the Swimmeret System

 Carolyn M. Sherff and Brian Mulloney
- Opposing Actions of Androgen and Estrogen on In Vitro Firing Frequency of Neuronal Oscillators in the Electromotor System

 Joseph E. Schaefer and Harold H. Zakon

Cover picture: Expanded myelin sheath formed in rat spinal cord in the presence of an IgM anti-galactocerebroside monoclonal antibody. Lamellae are separated from each other by rows of IgM pentamers lined up along the myelin membranes. See Rosenbluth et al., pp. 2635–2641.

Persons interested in becoming members of the Society for Neuroscience should contact the Membership Department, Society for Neuroscience, 11 Dupont Circle, NW, Suite 500, Washington, DC 20036, phone 202-462-6688.

Instructions for Authors appear at the end of the January 1, 1996 issue. Copies of the Instructions can be obtained by writing to Diane M. Sullenberger, Director of Publications, *The Journal of Neuroscience*, Society for Neuroscience, 11 Dupont Circle, NW, Suite 500, Washington, DC 20036, phone 202-462-6688, fax 202-462-1547, e-mail jn@sfn.org. The Instructions are also available via Internet (http://www.sfn.org/) and the Society's Gopher server (Host: gopher.sfn.org. Port: 70.). Submissions should be sent to the above address. Scientific inquiries concerning manuscripts can be made directly to Dr. David C. Van Essen, Editor-in-Chief, *The Journal of Neuroscience*, Box 8108, Washington University School of Medicine, 660 South Euclid Avenue, St. Louis, MO 63110, phone 314-362-2721, fax 314-362-2734, e-mail JNEUROSCI@THALAMUS.WUSTL.EDU.

The Journal of Neuroscience requests that authors send a disk containing an electronic file of their manuscript with each submission. Most word processing software can be used; see the Instructions for Authors for detailed guidelines on acceptable disk and file formats.