

The Journal of Neuroscience

The Official Journal of
the Society for Neuroscience

August 1994
Volume 14 Number 8

- 4571 Plasticity in the Adult Human Oligodendrocyte Lineage
N. Gogate, L. Verma, J.M. Zhou, E. Milward, R. Rusten, M. O'Connor, C. Kufta, J. Kim, L. Hudson, and M. Dubois-Dalq
- 4588 Localization of Kv1.1 and Kv1.2, Two K Channel Proteins, to Synaptic Terminals, Somata, and Dendrites in the Mouse Brain
H. Wang, D.D. Kunkel, P.A. Schwartzkroin, and B.L. Tempel
- 4600 Ionic Currents of Kenyon Cells from the Mushroom Body of the Honeybee
S. Schäfer, H. Rosenboom, and R. Menzel
- 4613 Detailed Passive Cable Models of Whole-Cell Recorded CA3 Pyramidal Neurons in Rat Hippocampal Slices
G. Major, A.U. Larkman, P. Jonas, B. Sakmann, and J.J.B. Jack
- 4639 Regional Differences in Glial-derived Factors that Promote Dendritic Outgrowth from Mouse Cortical Neurons *in vitro*
P.D. Le Roux and T.A. Reh
- 4656 The Developmental Expression in Rat of Proteases Furin, PC1, PC2, and Carboxypeptidase E: Implications for Early Maturation of Proteolytic Processing Capacity
M. Zheng, R.D. Streck, R.E.M. Scott, N.G. Seidah, and J.E. Pintar
- 4674 Selective Coexpression of Insulin Receptor-related Receptor (IRR) and TRK in NGF-Sensitive Neurons
R.R. Reinhardt, E. Chin, B. Zhang, R.A. Roth, and C.A. Bondy
- 4684 Heterosynaptic Suppression of Developing Neuromuscular Synapses in Culture
Y.-J. Lo and M.-m. Poo
- 4694 Depression of Developing Neuromuscular Synapses Induced by Repetitive Postsynaptic Depolarizations
Y.-J. Lo, Y.-c. Lin, D.H. Sanes, and M.-m. Poo
- 4705 Linearized Models of Calcium Dynamics: Formal Equivalence to the Cable Equation
A. Zador and C. Koch
- 4716 Increased Expression of the NG2 Chondroitin-Sulfate Proteoglycan after Brain Injury
J.M. Levine
- 4731 The Algorithmic Complexity of Neural Spike Trains Increases During Focal Seizures
P.E. Rapp, I.D. Zimmerman, E.P. Vining, N. Cohen, A.M. Albano, and M.A. Jiménez-Montaño

- 4740 Kappa Opioids Inhibit Induction of Long-Term Potentiation in the Dentate Gyrus of the Guinea Pig Hippocampus
G.W. Terman, J.J. Wagner, and C. Chavkin
- 4748 Sex Differences in Aging of the Human Frontal and Temporal Lobes
P.E. Cowell, B.I. Turetsky, R.C. Gur, R.I. Grossman, D.L. Shtasel, and R.E. Gur
- 4756 Tenascin Demarcates the Boundary between the Myelinated and Nonmyelinated Part of Retinal Ganglion Cell Axons in the Developing and Adult Mouse
U. Bartsch, A. Faissner, J. Trotter, U. Dörries, S. Bartsch, H. Mohajeri, and M. Schachner
- 4769 Mesencephalic Type 1 Astrocytes Rescue Dopaminergic Neurons from Death Induced by Serum Deprivation
T. Takeshima, J.M. Johnston, and J.W. Commissiong
- 4780 Representation of Multiple Sound Sources in the Owl's Auditory Space Map
T.T. Takahashi and C.H. Keller
- 4794 Multiple Types of Ryanodine Receptor/ Ca^{2+} Release Channels Are Differentially Expressed in Rabbit Brain
T. Furuichi, D. Furutama, Y. Hakamata, J. Nakai, H. Takeshima, and K. Mikoshiba
- 4806 Implantation of AtT-20 or Genetically Modified AtT-20/hENK Cells in Mouse Spinal Cord Induced Antinociception and Opioid Tolerance
H.H. Wu, G.L. Wilcox, and S.C. McLoon
- 4815 Human Nerve Growth Factor Improves Spatial Memory in Aged but Not in Young Rats
A.L. Markowska, V.E. Koliatsos, S.J. Breckler, D.L. Price, and D.S. Olton
- 4825 Induction of *c-fos* Expression in Hypothalamic Magnocellular Neurons Requires Synaptic Activation and Not Simply Increased Spike Activity
S.M. Luckman, R.E.J. Dyball, and G. Leng
- 4831 Habituation of Neurosecretory Responses to Extracellular ATP in PC12 Cells
L. Cheever and D.E. Koshland, Jr.
- 4839 Dopaminergic Regulation of the Serotonergic Raphe-Striatal Pathway: Microdialysis Studies in Freely Moving Rats
S. Ferré, R. Cortés, and F. Artigas
- 4847 Augmentation of Calcium Channel Currents in Response to G Protein Activation by $\text{GTP}\gamma\text{S}$ in Chick Sensory Neurons
X. Zong and H.D. Lux
- 4854 What Happens If It Changes Color When It Moves?: The Nature of Chromatic Input to Macaque Visual Area MT
K.R. Dobkins and T.D. Albright
- 4871 Post-Receptor Mechanisms Underlying Striatal Long-Term Depression
P. Calabresi, A. Pisani, N.B. Mercuri, and G. Bernardi
- 4882 Voltage-Sensitive Calcium Channels in Spinal Nociceptive Processing: Blockade of N- and P-Type Channels Inhibits Formalin-induced Nociception
A.B. Malmberg and T.L. Yaksh

- 4891 Selective Elimination of Hypothalamic Neurons by Grafted Hypertension-inducing Neural Tissue
R. Eilam, R. Malach, and M. Segal
- 4903 Cell-Type-Specific Expression of Catecholamine Transporters in the Rat Brain
D. Lorang, S.G. Amara, and R.B. Simerly
- 4915 Isolation of Clones of Rat Striatum-Specific mRNAs by Directional Tag PCR Subtraction
H. Usui, J.D. Falk, A. Dopazo, L. de Lecea, M.G. Erlander, and J.G. Sutcliffe
- 4927 The Role of Endogenous Adenosine in a Poststimulation Increase in the Acetylcholine Content of a Sympathetic Ganglion
A. Tandon and B. Collier
- 4937 The NMDA Glycine Site Antagonist (+)-HA-966 Selectively Regulates Conditioned Stress-induced Metabolic Activation of the Mesoprefrontal Cortical Dopamine but Not Serotonin Systems: A Behavioral, Neuroendocrine, and Neurochemical Study in the Rat
L.E. Goldstein, A.M. Rasmusson, B.S. Bunney, and R.H. Roth
- 4951 Systemic Interleukin-1 Induces Early and Late Patterns of *c-fos* mRNA Expression in Brain
L.S. Brady, A.B. Lynn, M. Herkenham, and Z. Gottesfeld
- 4965 Inhibitory Actions of δ_1 -, δ_2 -, and μ -Opioid Receptor Agonists on Excitatory Transmission in Lamina II Neurons of Adult Rat Spinal Cord
S.R. Glaum, R.J. Miller, and D.L. Hammond
- 4972 Na⁺-Dependent, Fluoxetine-Sensitive Serotonin Uptake by Astrocytes Tissue-printed from Rat Cerebral Cortex
V. Dave and H.K. Kimelberg
- 4987 Prostaglandin E₂ Enhances Bradykinin-stimulated Release of Neuropeptides from Rat Sensory Neurons in Culture
M.R. Vasko, W.B. Campbell, and K.J. Waite
- 4998 Pathway-Specific Variants of AMPA Receptors and Their Contribution to Neuronal Signaling
I.M. Raman, S. Zhang, and L.O. Trussell
- 5011 ω -Conotoxin Block of N-Type Calcium Channels in Frog and Rat Sympathetic Neurons
L.M. Boland, J.A. Morrill, and B.P. Bean
- 5028 TEA Elicits Two Distinct Potentiations of Synaptic Transmission in the CA1 Region of the Hippocampal Slice
E. Hanse and B. Gustafsson
- 5035 Cell Adhesion Molecules Regulating Neurite Growth from Amacrine and Rod Photoreceptor Cells
I.J. Kljavin, C. Lagenaur, J.L. Bixby, and T.A. Reh
- 5050 Binocular Interactions in Striate Cortical Neurons of Cats Reared with Discordant Visual Inputs
Y.M. Chino, E.L. Smith III, K. Yoshida, H. Cheng, and J. Hamamoto
- 5068 Extracellular Glucose Concentration in Mammalian Brain: Continuous Monitoring of Changes during Increased Neuronal Activity and upon Limitation in Oxygen Supply in Normo-, Hypo-, and Hyperglycemic Animals
I.A. Silver and M. Erecińska

- 5077 Dendritic Pathology of Granule Cells in Alzheimer's Disease Is Unrelated to Neuritic Plaques
G. Einstein, R. Buranosky, and B.J. Crain
- 5089 Activity of Descending Propriospinal Axons in the Turtle Hindlimb Enlargement during Two Forms of Fictive Scratching: Broad Tuning to Regions of the Body Surface
A. Berkowitz and P.S.G. Stein
- 5105 Activity of Descending Propriospinal Axons in the Turtle Hindlimb Enlargement during Two Forms of Fictive Scratching: Phase Analyses
A. Berkowitz and P.S.G. Stein
- 5120 Presynaptic Depression of Synaptic Transmission Mediated by Activation of Metabotropic Glutamate Receptors in Rat Neocortex
J.P. Burke and J.J. Hablitz
- 5131 Glycinergic Synapses in the Rod Pathway of the Rat Retina: Cone Bipolar Cells Express the $\alpha 1$ Subunit of the Glycine Receptor
M. Sassoè-Pognetto, H. Wässle, and U. Grünert

Cover picture: Dark-field photomicrograph of the caudate nucleus (bright blue area) and inner layers of the neocortex (dark region) hybridized with clone SE6C, isolated by a caudate-minus-cerebellum subtractive hybridization. See Usui et al., pp. 4915–4926.

Persons interested in becoming members of the Society for Neuroscience should address inquiries to the Society for Neuroscience, 11 Dupont Circle, N.W., Suite 500, Washington, D.C. 20036 (202-462-6688).

Instructions for Authors appear at the end of the February 1994 issue. Copies of the Instructions can be obtained by writing to Diane M. Sullenberger, *The Journal of Neuroscience*, Society for Neuroscience, 11 Dupont Circle, N.W., Suite 500, Washington, D.C. 20036 (202-462-6688; fax 202-462-1547; e-mail jn@sfn.org). 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*, Department of Anatomy & Neurobiology, Washington University School of Medicine, 660 South Euclid Avenue, St. Louis, MO 63110 (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.