Naturally Occurring Truncated trkB Receptors Have Dominant Inhibitory Effects on Brain-Derived Neurotrophic Factor Signaling
Fernette F. Eide, Ella R. Vining, Brock L. Eide, Keling Zang, Xiao-Yun Wang, and Louis F. Reichardt

3130 cGMP-Dependent Protein Kinase in Dorsal Root Ganglion: Relationship with Nitric Oxide Synthase and Nociceptive Neurons
Yifang Qian, Daniel S. Chao, Daniel R. Santillano, Trudy L. Cornwell, Angus C. Nairn, Paul Greengard, Thomas M. Lincoln, and David S. Bredt

3139 Study of Receptor-Mediated Neurotoxins Released by HIV-1-Infected Mononuclear Phagocytes Found in Human Brain
Dana Giulian, Jiahua Yu, Xia Li, Donald Tom, Jun Li, Elaine Wendt, Shen-Nan Lin, Robert Schwartz, and Christine Noonan

3154 Invertebrate Synapsins: A Single Gene Codes for Several Isoforms in Drosophila
Bert R. E. Klagges, Gertrud Heimbeck, Tanja A. Godenschwege, Alois Hofbauer, Gert O. Pflugfelder, Rita Reifegerste, Dietmar Reisch, Michael Schaupp, Sigrid Buchner, and Erich Buchner

3166 Clustering of Gephyrin at GABAergic but Not Glutamatergic Synapses in Cultured Rat Hippocampal Neurons
Ann Marie Craig, Gary Banker, Weiru Chang, Maureen E. McGrath, and Anna S. Serpinskaya

3178 Selective, Activity-Dependent Uptake of Histamine into an Arthropod Photoreceptor
Ann E. Stuart, Jennifer R. Morgan, Harold E. Mekeel, Elizabeth Kempter, and Joseph C. Callaway

3189 A Macromolecular Synthesis-Dependent Late Phase of Long-Term Potentiation Requiring cAMP in the Medial Perforant Pathway of Rat Hippocampal Slices
Peter V. Nguyen and Eric R. Kandel

3199 Restoration of Normal Conduction Properties in Demyelinated Spinal Cord Axons in the Adult Rat by Transplantation of Exogenous Schwann Cells
Osamu Honmou, Paul A. Felts, Stephen G. Waxman, and Jeffrey D. Kocsis

3209 Frequency and Dendritic Distribution of Autapses Established by Layer 5 Pyramidal Neurons in the Developing Rat Neocortex: Comparison with Synaptic Innervation of Adjacent Neurons of the Same Class
Joachim Lübke, Henry Markram, Michael Frotscher, and Bert Sakmann
The Ganglionic Eminence May Be an Intermediate Target for Corticofugal and Thalamocortical Axons

Christine Ménin and Pierre Godement

Microtubule Stability Decreases Axon Elongation but Not Axoplasm Production


Influences of the Thalamus on the Survival of Subplate and Cortical Plate Cells in Cultured Embryonic Mouse Brain

David J. Price and R. Beau Lotto

Synaptic Modulation by Neurotrophic Factors: Differential and Synergistic Effects of Brain-Derived Neurotrophic Factor and Ciliary Neurotrophic Factor

Ron Stoop and Mu-ming Poo

Transgenic Expression of Embryonic MAP2 in Adult Mouse Brain: Implications for Neuronal Polarization

Kathryn M Marsden, Thierry Doll, Jacqueline Ferralli, Florence Botteri, and Andrew Matus

Experience-Dependent Plasticity of Binocular Responses in the Primary Visual Cortex of the Mouse

Joshua A. Gordon and Michael P. Stryker

Temporal Regulation of Shaker- and Shab-Like Potassium Channel Gene Expression in Single Embryonic Spinal Neurons during K⁺ Current Development

Deborah Gurantz, Angeles B. Ribera, and Nicholas C. Spitzer

BEN As a Presumptive Target Recognition Molecule during the Development of the Olivocerebellar System

Alain Chédotal, Olivier Pourquié, Frédéric Ezan, Hélène San Clemente, and Constantino Sotelo

Contingent Vulnerability of Entorhinal Parvalbumin-Containing Neurons in Alzheimer's Disease

Ana Solodkin, Stacy D. Veldhuizen, and Gary W. Van Hoesen

A Novel Entorhinal Projection to the Rat Dentate Gyrus: Direct Innervation of Proximal Dendrites and Cell Bodies of Granule Cells and GABAergic Neurons

Thomas Deller, Albert Martinez, Robert Nitsch, and Michael Frotscher

Projection Cells and Interneurons of the Lateral and Basolateral Amygdala: Distinct Firing Patterns and Differential Relation to Theta and Delta Rhythms in Conscious Cats

Denis Paré and Hélène Gaudreau

Efficient Coding of Natural Scenes in the Lateral Geniculate Nucleus: Experimental Test of a Computational Theory

Yang Dan, Joseph J. Atick, and R. Clay Reid

AMPA Receptor Subunits Underlying Terminals of Fine-Caliber Primary Afferent Fibers

A. Popratilo, R. J. Weinberg, and A. Rustioni

Low-Frequency Stimulation Cancels the High-Frequency-Induced Long-Lasting Effects in the Rat Medial Vestibular Nuclei

S. Grassi, V. E. Pettorossi, and M. Zampolini
Blue-Cone Horizontal Cells in the Retinae of Horses and Other Equidae
Daniele Sandmann, Brian B. Boycott, and Leo Peichl

Interneurons Containing Calretinin Are Specialized to Control Other Interneurons in the Rat Hippocampus
Attila I. Gulyás, Norbert Hájos, and Tamás F. Freund

Morphological Correlates of Bilateral Synchrony in the Rat Cerebellar Cortex
C. I. De Zeeuw, E. J. Lang, I. Sugihara, T. J. H. Ruigrok, L. M. Eisenman, E. Mugnaini, and R. Llinás

Molecular Indices of Neuronal and Glial Plasticity in the Hippocampal Formation in a Rodent Model of Age-Induced Spatial Learning Impairment
Kiminobu Sugaya, Michael Chiouiaard, Rhonda Greene, Michael Robbins, David Personett, Caroline Kent, Michela Gallagher, and Michael McKinney

Implementation of Action Sequences by a Neostriatal Site: A Lesion Mapping Study of Grooming Syntax
Howard C. Cromwell and Kent C. Berridge

Phasic Firing of Single Neurons in the Rat Nucleus Accumbens Correlated with the Timing of Intravenous Cocaine Self-Administration
Laura L. Peoples and Mark O. West

Ethanol Self-Administration Restores Withdrawal-Associated Deficiencies in Accumbal Dopamine and 5-Hydroxytryptamine Release in Dependent Rats
Friedbert Weiss, Loren H. Parsons, Gery Schulteis, Petri Hyttä, Marge T. Lorang, Floyd E. Bloom, and George F. Koob

Altered Habituation of an Identified Escape Circuit in Drosophila Memory Mutants
Jeff E. Engel and Chun-Fang Wu

The Echidna Tachyglossus aculeatus Combines REM and Non-REM Aspects in a Single Sleep State: Implications for the Evolution of Sleep
J. M. Siegel, P. R. Manger, R. Nienhuis, H. M. Fahringer, and J. D. Pettigrew

The Vesicular Monoamine Transporter, in Contrast to the Dopamine Transporter, Is Not Altered by Chronic Cocaine Self-Administration in the Rat
Julie M. Wilson and Stephen J. Kish

Mesencephalic Substrate of Reward: Axonal Connections
Sandra M. Boye and Pierre-Paul Rompré

Neuropeptide Y Depresses GABA-Mediated Calcium Transients in Developing Suprachiasmatic Nucleus Neurons: A Novel Form of Calcium Long-Term Depression
Karl Obrietan and Anthony N. van den Pol

Chronic Psychosocial Stress Causes Apical Dendritic Atrophy of Hippocampal CA3 Pyramidal Neurons in Subordinate Tree Shrews
Ana María Magaríños, Bruce S. McEwen, Gabriele Flügge, and Eberhard Fuchs
Selective Effects of Nerve Growth Factor on Spatial Recent Memory as Assessed by a Delayed Nonmatching-to-Position Task in the Water Maze

Alicja L. Markowska, Donald Price, and Vassilis E. Koliatsos

Cover picture: The distribution of tyrosinated tubulin (green) and acetylated tubulin (red) in the growth cone and distal neurite (differential interference contrast) derived from a rat superior cervical ganglion explant grown in a low concentration of nocodazole. Nocodazole alters the distribution of these two tubulin isoforms and also affects the distribution of microtubule endings in the growth cone. Microtubule staining in the growth cone was traced and is depicted to emphasize the extent of acetylated microtubule staining. The neurite staining is rendered so that the brightest staining of each chromophore is at saturation. Thus, the tyrosinated staining is at its brightest in the growth cone and decreases proximally, whereas the acetylated staining increases in intensity proximally. For details, see the article by Rochlin et al. in this issue (pp. 3236–3246).

Correction: In the article “Neuropeptide Y1 Receptors Inhibit N-Type Calcium Currents and Reduce Transient Calcium Increases in Rat Dentate Granule Cells” (A. Rory McQuiston et al.), which appeared on pages 1422–1429 in the February 15, 1996 issue, the authors would like to correct an omission in the Materials and Methods section. In the experiments to isolate Ca2+ currents in the dissociated dentate granule cells, Na channel toxin, tetrodotoxin (TTX), 1 μm, was included in the bath.

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.WUSTLE.DU.

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.