Activity-dependent Fluorescent Staining and Destaining of Living Vertebrate Motor Nerve Terminals
W.J. Betz, F. Mao, and G.S. Bewick

β-Amyloid Peptides Destabilize Calcium Homeostasis and Render Human Cortical Neurons Vulnerable to Excitotoxicity
M.P. Mattson, B. Cheng, D. Davis, K. Bryant, I. Lieberburg, and R.E. Rydel

The dissonance Mutation at the no-on-transient-α Locus of D. melanogaster: Genetic Control of Courtship Song and Visual Behaviors by a Protein with Putative RNA-binding Motifs

Color Selectivity of Neurons in the Inferior Temporal Cortex of the Awake Macaque Monkey
H. Komatsu, Y. Ideura, S. Kaji, and S. Yamane

Dynorphin Increases Extracellular Levels of Excitatory Amino Acids in the Brain through a Non-opioid Mechanism
A.I. Faden

 Ionic Mechanisms of Anoxic Injury in Mammalian CNS White Matter: Role of Na+ Channels and Na+-Ca2+ Exchanger
P.K. Stys, S.G. Waxman, and B.R. Ransom

Distribution and Cellular Localization of mRNA Coding for 5-HT1A Receptor in the Rat Brain: Correlation with Receptor Binding
M. Pompeiano, J.M. Palacios, and G. Mengod

 Autoradiographic Localization of Voltage-dependent Sodium Channels on the Mouse Neuromuscular Junction Using 125I-α Scorpion Toxin. II. Sodium Channel Distribution on Postsynaptic Membranes
J.-L. Boudier, T. Le Treut, and E. Jover

Axonogenesis and Morphogenesis in the Embryonic Zebrafish Brain
L.S. Ross, T. Parrett, and S.S. Easter, Jr.

Opioids Excite Dopamine Neurons by Hyperpolarization of Local Interneurons
S.W. Johnson and R.A. North

Ca2+ Stores in Purkinje Neurons: Endoplasmic Reticulum Subcompartments Demonstrated by the Heterogeneous Distribution of the InaP; Receptor, Ca2+-ATPase, and Calcequestrin
K. Takei, H. Stukenbrok, A. Metcalf, G.A. Mignery, T.C. Südhof, P. Volpe, and P. De Camilli

Long-term Increases in Excitability in the CA1 Region of Rat Hippocampus Induced by β-Adrenergic Stimulation: Possible Mediation by cAMP
T.V. Dunwiddie, M. Taylor, L.R. Heginbotham, and W.R. Proctor
Cooperative Regulation of Calcitonin Gene–related Peptide Levels in Rat Sensory Neurons via Their Central and Peripheral Processes
Y. Inaishi, Y. Kashihara, M. Sakaguchi, H. Nawa, and M. Kuno

Modulatory Effects of FMRF-NH₂ on Outward Currents and Oscillatory Activity in Heart Interneurons of the Medicinal Leech
T.W. Simon, C.A. Opdyke, and R.L. Calabrese

Distinct Spatial and Temporal Expression Patterns of K⁺ Channel mRNAs from Different Subfamilies
J.A. Drewe, S. Verma, G. Frech, and R.H. Joho

Changes in the Activity of Units of the Cat Motor Cortex with Rapid Conditioning and Extinction of a Compound Eye Blink Movement
S. Aou, C.D. Woody, and D. Birt

Increases in Excitability of Neurons of the Motor Cortex of Cats after Rapid Acquisition of Eye Blink Conditioning
S. Aou, C.D. Woody, and D. Birt

Development of Axonal Arbors of Layer 4 Spiny Neurons in Cat Striate Cortex
E.M. Callaway and L.C. Katz

Transforming Growth Factor α, but Not Epidermal Growth Factor, Promotes the Survival of Sensory Neurons in vitro
A. Chalazonitis, J.A. Kessler, D.R. Twardzik, and R.S. Morrison

Activation and Desensitization of AMPA/Kainate Receptors by Novel Derivatives of Willardiine

Computer Simulations of EPSP-Spike (E-S) Potentiation in Hippocampal CA1 Pyramidal Cells
J.C. Wathey, W.W. Lytton, J.M. Jester, and T.J. Sejnowski

Cerebellar Target Neurons Provide a Stop Signal for Afferent Neurite Extension in vitro
D.H. Baird, M.E. Hatten, and C.A. Mason

NMDA Channel Behavior Depends on Agonist Affinity
R.A.J. Lester and C.E. Jahr

Synaptic Plasticity in Drosophila Memory and Hyperexcitable Mutants: Role of cAMP Cascade
Y. Zhong, V. Budnik, and C.-F. Wu

Differential Effects of Haloperidol and Clozapine on Neurotensin Gene Transcription in Rat Neostriatum
K.M. Merchant, P.R. Dobner, and D.M. Dorsa

Transmitter-operated Channels in Rabbit Retinal Astrocytes Studied in situ by Whole-Cell Patch Clamping
B. Clark and P. Mobbs

Transient Calbindin-D₂₈₀C-Positive Systems in the Telencephalon: Ganglionic Eminence, Developing Striatum and Cerebral Cortex
F.-C. Liu and A.M. Graybiel
Cover picture: Dual fluorescence staining of a living frog *cutaneous pectoris* end plate. The left image (green) shows the distribution of FM1-43, a styryl dye that stains motor nerve terminals in an activity-dependent fashion, evidently by labelling recycled synaptic vesicles. The right image (red) shows rhodamine α-bungarotoxin staining of the same end plate. The two images are superimposed in the middle. Regions of overlap appear yellow. See Betz et al., pp. 363–375.

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

Instructions to Authors appear in the January issue only. Copies of the Instructions can be obtained by writing The Journal of Neuroscience, Department of Neurobiology, Box 3209, 101G Bryan Building, Research Drive, Duke University Medical Center, Durham, NC 27710. Submissions should be sent to Dr. Dale Purves, editor-in-chief, at the same address. Inquiries concerning manuscripts can be made directly to Lucinda Paris and Dianitia Hutcheson, managing editors, at the offices of the Journal (919-684-3084; FAX 919-684-8573; Bitnet JNS@NEURO.DUKE.EDU).

*The Journal of Neuroscience* is pleased to announce that authors now may send a disk containing an electronic file of their manuscript once the paper is provisionally accepted. See the Instructions to Authors in the January 1992 issue for detailed guidelines on acceptable disk and file formats.