

The Journal of Neuroscience

The Official Journal of
the Society for Neuroscience

June 1991
Volume 11 Number 6

- 1485 Olfactory Bulb Granule Cell Aggregates: Morphological Evidence for Interperikaryal Electrotonic Coupling via Gap Junctions
C.K.H. Reyher, J. Lübke, W.J. Larsen, G.M. Hendrix, M.T. Shipley, and H.G. Baumgarten
- 1496 Alien Intracellular Calcium Chelators Attenuate Neurotransmitter Release at the Squid Giant Synapse
E.M. Adler, G.J. Augustine, S.N. Duffy, and M.P. Charlton
- 1508 Muscarinic Receptor Binding Increases in Anterior Thalamus and Cingulate Cortex during Discriminative Avoidance Learning
B.A. Vogt, M. Gabriel, L.J. Vogt, A. Poremba, E.L. Jensen, Y. Kubota, and E. Kang
- 1515 The Effect of Tau Antisense Oligonucleotides on Neurite Formation of Cultured Cerebellar Macroneurons
A. Caceres, S. Potrebic, and K.S. Kosik
- 1524 *Wocko*, a Neurological Mutant Generated in a Transgenic Mouse Pedigree
E.B. Crenshaw III, A. Ryan, S.R. Dillon, K. Kalla, and M.G. Rosenfeld
- 1531 Septal Arginine Vasopressin (AVP) Receptor Regulation in Rats Depleted of Septal AVP following Long-term Castration
P. Poulin and Q.J. Pittman
- 1540 Differential Gene Expression for Glutamic Acid Decarboxylase and Type II Calcium-Calmodulin-dependent Protein Kinase in Basal Ganglia, Thalamus, and Hypothalamus of the Monkey
D.L. Benson, P.J. Isackson, S.H.C. Hendry, and E.G. Jones
- 1565 (D-Ala²)Deltorphin II: D₁-dependent Stereotypies and Stimulation of Dopamine Release in the Nucleus Accumbens
R. Longoni, L. Spina, A. Mulas, E. Carboni, L. Garau, P. Melchiorri, and G. Di Chiara
- 1577 Transient and Persistent Expression of NT-3/HDNF mRNA in the Rat Brain during Postnatal Development
W.J. Friedman, P. Ernfors, and H. Persson
- 1585 The Effects of Serotonin Depletion and Raphe Grafts on Hippocampal Electrophysiology and Behavior
G. Richter-Levin and M. Segal
- 1597 Intracellular Calcium Levels Do Not Change during Contact-mediated Collapse of Chick DRG Growth Cone Structure
J.K. Ivins, J.A. Raper, and R.N. Pittman
- 1609 Vasopressin Generates a Persistent Voltage-dependent Sodium Current in a Mammalian Motoneuron
M. Raggenbass, M. Goumaz, E. Sermasi, E. Tribollet, and J.J. Dreifuss

- 1617 The Distribution of Synapsin I and Synaptophysin in Hippocampal Neurons Developing in Culture
T.L. Fletcher, P. Cameron, P. De Camilli, and G. Banker
- 1627 Modulation of Calcium-activated Potassium Channels from Rat Brain by Protein Kinase A and Phosphatase 2A
P.H. Reinhart, S. Chung, B.L. Martin, D.L. Brautigan, and I.B. Levitan
- 1636 Vestibular-Nerve Inputs to the Vestibulo-ocular Reflex: A Functional-Ablation Study in the Squirrel Monkey
L.B. Minor and J.M. Goldberg
- 1649 Chronic Quinolinic Acid Lesions in Rats Closely Resemble Huntington's Disease
M.F. Beal, R.J. Ferrante, K.J. Swartz, and N.W. Kowall
- 1660 Dentate Hilar Cells with Dendrites in the Molecular Layer Have Lower Thresholds for Synaptic Activation by Perforant Path than Granule Cells
H.E. Scharfman
- 1674 Differential Intracellular Calcium Responses to Glutamate in Type 1 and Type 2 Cultured Brain Astrocytes
A.M. Jensen and S.Y. Chiu
- 1685 Phospholipid-mediated Delivery of Anti-GAP-43 Antibodies into Neuroblastoma Cells Prevents Neuritogenesis
T.B. Shea, N.I. Perrone-Bizzozero, M.L. Beermann, and L.I. Benowitz
- 1691 The Effect of Selective Brainstem or Spinal Cord Lesions on Treadmill Locomotion Evoked by Stimulation of the Mesencephalic or Pontomedullary Locomotor Regions
B.R. Noga, D.J. Kriellaars, and L.M. Jordan
- 1701 Acetylcholine Receptor Expression in Developing Chick Ciliary Ganglion Neurons
M.H. Jacob
- 1713 Evidence for Voltage-activated Outward Currents in the Neuropilar Membrane of Locust Nonspiking Local Interneurons
G. Laurent
- 1727 Stretched and Upside-down Maps of Auditory Space in the Optic Tectum of Blind-reared Owls; Acoustic Basis and Behavioral Correlates
E.I. Knudsen, S.D. Esterly, and S. du Lac
- 1748 Neuropil Threads of Alzheimer's Disease Show a Marked Alteration of the Normal Cytoskeleton
G. Perry, M. Kawai, M. Tabaton, M. Onorato, P. Mulvihill, P. Richey, A. Morandi, J.A. Connolly, P. Gambetti
- 1756 Production and Survival of Projection Neurons in a Forebrain Vocal Center of Adult Male Canaries
J.R. Kirn, A. Alvarez-Buylla, and F. Nottebohm
- 1763 The Effects of Visual Stimulation and Memory on Neurons of the Hippocampal Formation and the Neighboring Parahippocampal Gyrus and Inferior Temporal Cortex of the Primate
I.P. Riches, F.A.W. Wilson, and M.W. Brown
- 1780 Temperature-dependent Peptidergic Feedback: Potential Role in Seasonal Egg Laying in *Aplysia*
R.S. Redman and R.W. Berry

- 1786 The Segmentation of the Leech Nervous System Is Prefigured by Myogenic Cells at the Embryonic Midline Expressing a Muscle-specific Matrix Protein
I.S. Thorey and B. Zipser
- 1800 Synaptic Physiology of Horizontal Connections in the Cat's Visual Cortex
J.A. Hirsch and C.D. Gilbert
- 1810 Control of Retinal Information Coding by GABA_B Receptors
Z.-H. Pan and M.M. Slaughter
- 1822 Phylogenetic Studies on the Synaptic Vesicle Glutamate Transport System
J.S. Tabb and T. Ueda
- 1829 Characterization of Phospholipase A₂ (PLA₂) Activity in Gerbil Brain: Enhanced Activities of Cytosolic, Mitochondrial, and Microsomal Forms after Ischemia and Reperfusion
G. Rordorf, Y. Uemura, and J.V. Bonventre
- 1837 Local Information Processing in Dendritic Trees: Subsets of Spines in Granule Cells of the Mammalian Olfactory Bulb
T.B. Woolf, G.M. Shepherd, and C.A. Greer
- 1855 Learning-dependent Neuronal Activity in the Premotor Cortex: Activity during the Acquisition of the Conditional Motor Associations
A.R. Mitz, M. Godschalk, and S.P. Wise
- 1873 Modulation of Calcium Channels in Human Retinal Glial Cells by Basic Fibroblast Growth Factor: A Possible Role in Retinal Pathobiology
D.G. Puro and T. Mano

Cover picture: Diffusion of calcium buffer microinjected into a squid giant presynaptic terminal. The pseudocolor overlays illustrate buffer distribution at three different times following a brief injection of buffer. Adler et al. (pp. 1496–1507) use such buffer injections to define the temporal and spatial dimensions of the presynaptic calcium signal for neurotransmitter secretion.

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).