

THE JOURNAL OF NEUROSCIENCE

OCTOBER 1984

VOLUME 4 NUMBER 10

THE OFFICIAL JOURNAL OF THE SOCIETY FOR NEUROSCIENCE

CONTENTS

- LEHMKUHLE, S., S. M. SHERMAN, AND K. E. KRATZ: Spatial Contrast Sensitivity of Dark-reared Cats with Striate Cortex Lesions 2419
- JACOBS, D. S., V. H. PERRY, AND M. J. HAWKEN: The Postnatal Reduction of the Uncrossed Projection from the Nasal Retina in the Cat 2425
- CARR, V. M.: Dorsal Root Ganglia Development in Chicks following Partial Ablation of the Neural Crest 2434
- KAGEYAMA, G. H., AND M. T. T. WONG-RILEY: The Histochemical Localization of Cytochrome Oxidase in the Retina and Lateral Geniculate Nucleus of the Ferret, Cat, and Monkey, with Particular Reference to Retinal Mosaics and On/Off-Center Visual Channels 2445
- HOUGHTEN, R. A., N. JOHNSON, AND G. W. PASTERNAK: [³H]- β -Endorphin Binding in Rat Brain 2460
- ESKIN, A., J. S. TAKAHASHI, M. ZATZ, AND G. D. BLOCK: Cyclic Guanosine 3':5'-Monophosphate Mimics the Effects of Light on a Circadian Pacemaker in the Eye of *Aplysia* 2466
- GREEN, R. D.: Reciprocal Modulation of Agonist and Antagonist Binding to Inhibitory Adenosine Receptors by 5'-Guanylylimidodiphosphate and Monovalent Cations 2472
- PICCOLINO, M., J. NEYTON, AND H. M. GERSCHENFELD: Decrease of Gap Junction Permeability Induced by Dopamine and Cyclic Adenosine 3':5'-Monophosphate in Horizontal Cells of Turtle Retina 2477
- SMITH, C. B., A. M. CRANE, M. KADEKARO, B. W. AGRANOFF, AND L. SOKOLOFF: Stimulation of Protein Synthesis and Glucose Utilization in the Hypoglossal Nucleus Induced by Axotomy 2489
- HENDRY, S. H. C., E. G. JONES, AND P. C. EMSON: Morphology, Distribution, and Synaptic Relations of Somatostatin- and Neuropeptide Y-immunoreactive Neurons in Rat and Monkey Neocortex 2497
- TOSNEY, K. W., AND L. T. LANDMESSER: Pattern and Specificity of Axonal Outgrowth following Varying Degrees of Chick Limb Bud Ablation 2518
- RAYPORT, S. G., AND J. S. CAMARDO: Differential Emergence of Cellular Mechanisms Mediating Habituation and Sensitization in the Developing *Aplysia* Nervous System 2528
- SEYBOLD, V. S., AND R. P. ELDE: Receptor Autoradiography in Thoracic Spinal Cord: Correlation of Neurotransmitter Binding Sites with Sympathoadrenal Neurons 2533
- JONES, K. R., P. D. SPEAR, AND L. TONG: Critical Periods for Effects of Monocular Deprivation: Differences between Striate and Extrastriate Cortex 2543
- LEVITT, P., P. RAKIC, P. DE CAMILLI, AND P. GREENGARD: Emergence of Cyclic Guanosine 3':5'-Monophosphate-dependent Protein Kinase Immunoreactivity in Developing Rhesus Monkey Cerebellum: Correlative Immunocytochemical and Electron Microscopic Analysis 2553

Contents continued on next page

Cover picture: An electron micrograph of an identified growth cone in the grasshopper embryo. Several filopodia from other growing axons can be seen near the Golgi apparatus, having apparently been inserted deeply within the growth cone. Coated pits are associated with the tips of the inserted filopodia. $\times 50,000$. Micrograph provided by Drs. Michael J. Bastiani and Corey S. Goodman.

Instructions to Authors appear in the January issue only. Copies of the Instructions can be obtained by writing the Society for Neuroscience, 11 Dupont Circle, N.W., Washington, DC 20036, Suite 130.

Contents Continued

MURRAY, E. A., AND M. MISHKIN: Severe Tactual As Well As Visual Memory Deficits Follow Combined Removal of the Amygdala and Hippocampus in Monkeys	2565
KREINER, T., J. B. ROTHBARD, G. K. SCHOOLNIK, AND R. H. SCHELLER: Antibodies to Synthetic Peptides Defined by cDNA Cloning Reveal a Network of Peptidergic Neurons in <i>Aplysia</i>	2581
SOMOGYI, P., A. J. HODGSON, A. D. SMITH, M. G. NUNZI, A. GORIO, AND J. -Y. WU: Different Populations of GABAergic Neurons in the Visual Cortex and Hippocampus of Cat Contain Somatostatin- or Cholecystokinin-immunoreactive Material	2590
EMESON, R. B.: Hypothalamic Peptidyl-Glycine α -Amidating Monooxygenase: Preliminary Characterization	2604
RIDGE, R. M. A. P., AND W. J. BETZ: The Effect of Selective, Chronic Stimulation on Motor Unit Size in Developing Rat Muscle	2614
MIDDLEBROOKS, J. C., AND E. I. KNUDSEN: A Neural Code for Auditory Space in the Cat's Superior Colliculus	2621
ADAMSON, J., J. BURKE, AND P. GROBSTEIN: Recovery of Ipsilateral Oculotectal Projection following Nerve Crush in the Frog: Evidence that Retinal Afferents Make Synapses at Abnormal Tectal Locations	2635
HUCK, S., F. GRASS, AND H. HÖRTNAGL: The Glutamate Analogue α -Aminoadipic Acid Is Taken Up by Astrocytes before Exerting Its Gliotoxic Effect <i>In Vitro</i>	2650