

## CONTENTS

PIZZOLATO, G., T. T. SONCRANT, H. W. HOLLOWAY, AND S. I. RAPOPORT: Reduced Metabolic Response of the Aged Rat Brain to Haloperidol	2831
MANGEL, S. C., M. ARIEL, AND J. E. DOWLING: Effects of Acidic Amino Acid Antagonists Upon the Spectral Properties of Carp Horizontal Cells: Circuitry of the Outer Retina	2839
SCHACHER, S., S. G. RAYPORT, AND R. T. AMBRON: Giant <i>Aplysia</i> Neuron R2 Reliably Forms Strong Chemical Connection <i>In Vitro</i>	2851
AMBRON, R. T., H. DEN, AND S. SCHACHER: Synaptogenesis by Single Identified Neurons <i>In Vitro</i> : Contribution of Rapidly Transported and Newly Synthesized Proteins	2857
AMBRON, R. T., S. SCHACHER, AND S. G. RAYPORT: Proteins Rapidly Transported to the Synapses of a Single Identified Neuron of <i>Aplysia californica</i>	2866
KOCHERSPERGER, L. M., A. WAGUESPACK, J. C. PATTERSON, C. -C. W. HSIEH, W. WEYLER, J. I. SALACH, AND R. M. DENNEY: Immunological Uniqueness of Human Monoamine Oxidases A and B: New Evidence from Studies with Monoclonal Antibodies to Human Monoamine Oxidase A	2874
KOLLER, K. J., AND J. T. COYLE: The Characterization of the Specific Binding of [ <sup>3</sup> H]- <i>N</i> -Acetylaspartylglutamate to Rat Brain Membranes	2882
GAVISH, M., AND F. FARES: Solubilization of Peripheral Benzodiazepine-binding Sites from Rat Kidney	2889
SELZER, M. E., G. DAVID, AND Y. YAARI: On the Mechanism by Which Phenytoin Blocks Post-tetanic Potentiation at the Frog Neuromuscular Junction	2894
MATA, M., J. STAPLE, AND D. J. FINK: Ultrastructural Localization of Slow Retrograde Axonal Transport: An Autoradiographic Study	2900
MONAGHAN, D. T., AND C. W. COTMAN: Distribution of <i>N</i> -Methyl-D-aspartate-sensitive L-[ <sup>3</sup> H]Glutamate-binding Sites in Rat Brain	2909
HOFFMAN, P. N., J. W. GRIFFIN, B. G. GOLD AND D. L. PRICE: Slowing of Neurofilament Transport and the Radial Growth of Developing Nerve Fibers	2920
CHASE, R.: Responses to Odors Mapped in Snail Tentacle and Brain by [ <sup>14</sup> C]-2-Deoxyglucose Autoradiography	2930
VAN DEN POL, A.: Dual Ultrastructural Localization of Two Neurotransmitter-related Antigens: Colloidal Gold-labeled Neurophysin-immunoreactive Supraoptic Neurons Receive Peroxidase-labeled Glutamate Decarboxylase- or Gold-labeled GABA-immunoreactive Synapses	2940
ZELLER, N. K., T. N. BEHAR, M. E. DUBOIS-DALCQ AND R. A. LAZZARINI: The Timely Expression of Myelin Basic Protein Gene in Cultured Rat Brain Oligodendrocytes is Independent of Continuous Neuronal Influences	2955
SCHWARTZ, R. D., J. A. JACKSON, D. WEIGERT, P. SKOLNICK, AND S. M. PAUL: Characterization of Barbiturate-stimulated Chloride Efflux from Rat Brain Synaptoneurosomes	2963
YUAN, B., T. J. MORROW, AND K. L. CASEY: Responsiveness of Ventrobasal Thalamic Neurons after Suppression of S1 Cortex in the Anesthetized Rat	2971
WILKINSON, R. S., AND J. W. LICHTMAN: Regular Alternation of Fiber Types in the Transversus Abdominis Muscle of the Garter Snake	2979

*Contents continued on next page*

*Cover picture:* Frozen section of the brain of the Tawny Frogmouth, *Podargus strigoides*. This coronal section, at the level of the nucleus rotundus, was mounted in water and used as a negative to make the print, which was kindly provided by Vicki Hammond and Jack Pettigrew.

*Contents continued*

MOONEY, R. D., B. G. KLEIN, AND R. W. RHOADES: Correlations between the Structural and Functional Characteristics of Neurons in the Superficial Laminae of the Hamster's Superior Colliculus	2989
BENNETT, D. B., J. W. SPAIN, M. B. LASKOWSKI, B. L. ROTH, AND C. J. COSCIA: Stereospecific Opiate-binding Sites Occur in Coated Vesicles	3010
FREEDMAN, J. E., AND G. K. AGHAJANIAN: Opiate and $\alpha_2$ -Adrenoceptor Responses of Rat Amygdaloid Neurons: Co-localization and Interactions during Withdrawal	3016
LEVINE, J. D., J. GOODING, P. DONATONI, L. BORDEN, AND E. J. GOETZL: The Role of the Polymorphonuclear Leukocyte in Hyperalgesia	3025
HOPKINS, J. M., T. S. FORD-HOLEVINSKI, J. P. MCCOY, AND B. W. AGRANOFF: Laminin and Optic Nerve Regeneration in the Goldfish	3030
LEE, V. M. -Y.: Neurofilament Protein Abnormalities in PC12 Cells: Comparison with Neurofilament Proteins of Normal Cultured Rat Sympathetic Neurons	3039
BURTON, P. R., AND L. A. LAVERI: The Distribution, Relationships to Other Organelles, and Calcium-sequestering Ability of Smooth Endoplasmic Reticulum in Frog Olfactory Axons	3047
WALSH, C., AND R. W. GUILLERY: Age-related Fiber Order in the Optic Tract of the Ferret	3061
BIXBY, J. L., AND L. F. REICHARDT: The Expression and Localization of Synaptic Vesicle Antigens at Neuromuscular Junctions <i>In Vitro</i>	3070
KARGACIN, G. J., AND P. B. DETWILER: Light-evoked Contraction of the Photosensitive Iris of the Frog	3081
PATON, J. A., B. E. O'LOUGHLIN, AND F. NOTTEBOHM: Cells Born in Adult Canary Forebrain are Local Interneurons	3088
KNUDSEN, E. I.: Experience Alters the Spatial Tuning of Auditory Units in the Optic Tectum during a Sensitive Period in the Barn Owl	3094