

THE JOURNAL OF NEUROSCIENCE

JANUARY 1983

VOLUME 3 NUMBER 1

THE OFFICIAL JOURNAL OF THE SOCIETY FOR NEUROSCIENCE

CONTENTS

- LEVEY, A. I., D. M. ARMSTRONG, S. F. ATWEH, AND B. H. WAINER: Monoclonal Antibodies to Choline Acetyltransferase: Production, Specificity, and Immunohistochemistry 1
- MORAN, T. H., G. J. SCHWARTZ, AND E. M. BLASS: Organized Behavioral Responses to Lateral Hypothalamic Electrical Stimulation in Infant Rats 10
- RAPER, J. A., M. BASTIANI, AND C. S. GOODMAN: Pathfinding by Neuronal Growth Cones in Grasshopper Embryos. I. Divergent Choices Made by the Growth Cones of Sibling Neurons 20
- RAPER, J. A., M. BASTIANI, AND C. S. GOODMAN: Pathfinding by Neuronal Growth Cones in Grasshopper Embryos. II. Selective Fasciculation onto Specific Axonal Pathways 31
- DICKINSON-NELSON, A., AND T. S. REESE: Structural Changes during Transmitter Release at Synapses in the Frog Sympathetic Ganglion 42
- STALLCUP, W. B., L. S. ARNER, AND J. M. LEVINE: An Antiserum against the PC12 Cell Line Defines Cell Surface Antigens Specific for Neurons and Schwann Cells 53
- BAKER, H., T. KAWANO, F. L. MARGOLIS, AND T. H. JOH: Transneuronal Regulation of Tyrosine Hydroxylase Expression in Olfactory Bulb of Mouse and Rat 69
- HARRIS, A. L., D. C. SPRAY, AND M. V. L. BENNETT: Control of Intercellular Communication by Voltage Dependence of Gap Junctional Conductance 79
- BREHM, P., E. YEH, J. PATRICK, AND Y. KIDOKORO: Metabolism of Acetylcholine Receptors on Embryonic Amphibian Muscle 101
- CLELAND, B. G., B. B. LEE, AND T. R. VIDYASAGAR: Response of Neurons in the Cat's Lateral Geniculate Nucleus to Moving Bars of Different Length 108
- SLOAN, H. E., S. E. HUGHES, AND B. OAKLEY: Chronic Impairment of Axonal Transport Eliminates Taste Responses and Taste Buds 117
- MCDUGAL, D. B., JR., M. J. C. YUAN, R. V. DARGAR, AND E. M. JOHNSON, JR.: Neonatal Capsaicin and Guanethidine and Axonally Transported Organelle-specific Enzymes in Sciatic Nerve and in Sympathetic and Dorsal Root Ganglia 124
- WILLIAMS, R. W., M. J. BASTIANI, AND L. M. CHALUPA: Loss of Axons in the Cat Optic Nerve following Fetal Unilateral Enucleation: An Electron Microscopic Analysis 133
- MULLIKIN-KILPATRICK, D., N. E. LARSEN, AND A. J. BLUME: Protection of Opiate Receptors in NG108-15 against Modification by *N*-Ethylmaleimide 145
- ROEDERER, E., N. H. GOLDBERG, AND M. J. COHEN: Modification of Retrograde Degeneration in Transected Spinal Axons of the Lamprey by Applied DC Current 153
- NUDELL, B. M., AND A. D. GRINNELL: Regulation of Synaptic Position, Size, and Strength in Anuran Skeletal Muscle 161

Contents continued on next page

Instructions to Authors appear in the January issue only. Copies of the Instructions can be obtained by writing the Society for Neuroscience, 9650 Rockville Pike, Bethesda, MD 20814.

CONTENTS continued

STEWART, O.: Alterations in Polyribosomes Associated with Dendritic Spines during the Reinnervation of the Dentate Gyrus of the Adult Rat	177
MOGENSEN, G. J., L. W. SWANSON, AND M. WU: Neural Projections from Nucleus Accumbens to Globus Pallidus, Substantia Innominata, and Lateral Preoptic-Lateral Hypothalamic Area: An Anatomical and Electrophysiological Investigation in the Rat	189
MIDDLEBROOKS, J. C., AND J. M. ZOOK: Intrinsic Organization of the Cat's Medial Geniculate Body Identified by Projections to Binaural Response-specific Bands in the Primary Auditory Cortex	203
YOUNG, S. H., AND M. -M. POO: Rapid Lateral Diffusion of Extrajunctional Acetylcholine Receptors in the Developing Muscle Membrane of <i>Xenopus</i> Tadpole	225
CHESELET, M. -F., AND T. D. REISINE: Somatostatin Regulates Dopamine Release in Rat Striatal Slices and Cat Caudate Nuclei	232
MOORE, M. J., AND D. M. CASPARY: Strychnine Blocks Binaural Inhibition in Lateral Superior Olivary Neurons	237

INFORMATION FOR SUBSCRIBERS

THE JOURNAL OF NEUROSCIENCE, the official journal of the Society for Neuroscience, is published monthly, one volume a year, beginning January.

Annual Subscription Rates. U.S.A. and possessions: Nonmember, \$80.00; Institutional, \$230.00; single copy, \$14.00. Foreign: Nonmember, \$100.00; Institutional, \$250.00; single copy, \$17.00. Institutional (multiple-reader) rate applies to libraries, schools, hospitals, clinics, group practices, and federal, commercial, and private institutions and organizations.

Second class postage paid at Washington, DC, and additional mailing offices.

Change of Address. The Subscription Department, Williams & Wilkins, 428 E. Preston St., Baltimore, MD 21202, must be notified 60 days in advance. Journals undeliverable because of incorrect addresses will be destroyed. Duplicates can be obtained (if available) from Williams & Wilkins at the regular price of single issues.

Reprints of individual articles are available only from authors.

Microfilm Availability. Inquire of Williams & Wilkins.

Japanese Yen price is available from our sole agent: U.S.-Asiatic Co. Ltd., 13-12 Shimbashi 1-Chome, Minato-Ku, Tokyo, Japan, telephone 03-502-6471.

Williams & Wilkins Co., 428 E. Preston Street, Baltimore, MD 21202.