

# THE JOURNAL OF NEUROSCIENCE

AUGUST 1983

VOLUME 3 NUMBER 8

THE OFFICIAL JOURNAL OF THE SOCIETY FOR NEUROSCIENCE

## CONTENTS

GLENDENNING, K. K., AND R. B. MASTERTON: Acoustic Chiasm: Efferent Projections of the Lateral Superior Olive	1521
FAGNI, L., M. BAUDRY, AND G. LYNCH: Classification and Properties of Acidic Amino Acid Receptors in Hippocampus. I. Electrophysiological Studies of an Apparent Desensitization and Interactions with Drugs which Block Transmission	1538
AMY, C. M., AND E. L. BENNETT: Increased Sodium Ion Conductance through Nicotinic Acetylcholine Receptor Channels in PC12 Cells Exposed to Nerve Growth Factors	1547
WILLIAMS, R. W., AND L M. CHALUPA: An Analysis of Axon Caliber within the Optic Nerve of the Cat: Evidence of Size Groupings and Regional Organization	1554
SHALABY, I. A., C. KOTAKE, P. C. HOFFMANN, AND A. HELLER: Release of Dopamine from Coaggregate Cultures of Mesencephalic Tegmentum and Corpus Striatum	1565
BURGESS, P. R., J. MEI, R. P. TUCKETT, K. W. HORCH, C. M. BALLINGER, AND D. A. POULOS: The Neural Signal for Skin Indentation Depth. I. Changing Indentation	1572
GEORGOPoulos, A. P., M. R. DELONG, AND M. D. CRUTCHER: Relations between Parameters of Step-Tracking Movements and Single Cell Discharge in the Globus Pallidus and Subthalamic Nucleus of the Behaving Monkey	1586
DELONG, M. R., M. D. CRUTCHER, AND A. P. GEORGOPoulos: Relations between Movement and Single Cell Discharge in the Substantia Nigra of the Behaving Monkey	1599
CHIODO, L. A., AND B. S. BUNNEY: Typical and Atypical Neuroleptics: Differential Effects of Chronic Administration on the Activity of A9 and A10 Midbrain Dopaminergic Neurons	1607
FREMEAUX, R. T., JR., R. T. JENSEN, C. G. CHARLTON, R. L. MILLER, T. L. O'DONOHUE, AND T. W. MOODY: Secretin: Specific Binding to Rat Brain Membranes	1620
MCLARNON, J. G., AND D. M. J. QUASTEL: Postsynaptic Effects of Magnesium and Calcium at the Mouse Neuromuscular Junction	1626
KRIEGSTEIN, A. R., AND M. A. DICHTER: Morphological Classification of Rat Cortical Neurons in Cell Culture	1634
FELLEMAN, D. J., J. T. WALL, C. G. CUSICK, AND J. H. KAAS: The Representation of the Body Surface in S-I of Cats	1648
MOODY, S. A., AND M. JACOBSON: Compartmental Relationships between Anuran Primary Spinal Motoneurons and Somatic Muscle Fibers that They First Innervate	1670
ROHRER, H., AND I. SOMMER: Simultaneous Expression of Neuronal and Glial Properties by Chick Ciliary Ganglion Cells during Development	1683
HOFFMAN, P. N., R. J. LASEK, J. W. GRIFFIN, AND D. L. PRICE: Slowing of the Axonal Transport of Neurofilament Proteins during Development	1694
SLAUGHTER, M. M., AND R. F. MILLER: The Role of Excitatory Amino Acid Transmitters in the Mudpuppy Retina: An Analysis with Kainic Acid and N-Methyl Aspartate	1701