

CONTENTS

	PAGE
TREHERNE, J. E. Preface	I
NICHOLLS, JOHN. Introduction. Perspectives on the cell biology of glia	3
LANE, NANCY J. Invertebrate neuroglia-junctional structure and development	7
LANDIS, DENNIS M. D. and REESE, THOMAS S. Membrane structure in mammalian astrocytes: a review of freeze-structure studies on adult, developing, reactive and cultured astrocytes	35
ORKAND, R. K., ORKAND, P. M. and TANG, C-M. Membrane properties of neuroglia in the optic nerve of <i>Necturus</i>	49
TREHERNE, J. E. and SCHOFIELD, P. K. Mechanisms of ionic homeostasis in the central nervous system of an insect	61
COLES, J. A. and TSACOPOULOS, M. Ionic and possible metabolic interactions between sensory neurones and glial cells in the retina of the honeybee drone	75
SYKOVA, EVA. K ⁺ changes in the extracellular space of the spinal cord and their physiological role	93
GARDNER-MEDWIN, A. R. Possible roles of vertebrate neuroglia in potassium dynamics, spreading depression and migraine	111
SOMJEN, GEORGE G. Neuroglia and spinal fluids	129
VILLEGAS, JORGE. Axon/Schwann-cell relationships in the giant nerve fibre of the squid	135
LASEK, RAYMOND J. and TYTELL, MICHAEL A. Macromolecular transfer from glia to the axon	153
ROOTS, BETTY I. Comparative studies on glial markers	167
CURRIE, D. NEIL and KELLY, JOHN S. Glial versus neuronal uptake of glutamate	181
MUDGE, ANNE W. Effect of non-neuronal cells on peptide content of cultured sensory neurones	195
SCHACHER, SAMUEL M. The role of support cells in the growth and differentiation of neurones in the abdominal ganglion of <i>Aplysia</i>	205
BROCKES, J. P., FRYXELL, K. J. and LEMKE, G. E. Studies on cultured Schwann cells: the induction of myelin synthesis, and the control of their proliferation by a new growth factor	215
AGUAYO, ALBERT J., DAVID, SAMUEL and BRAY, GARTH M. Influences of the glial environment on the elongation of axons after injury: transplantation studies in adult rodents	231

■ *Photographs of the Discussion Meeting*