

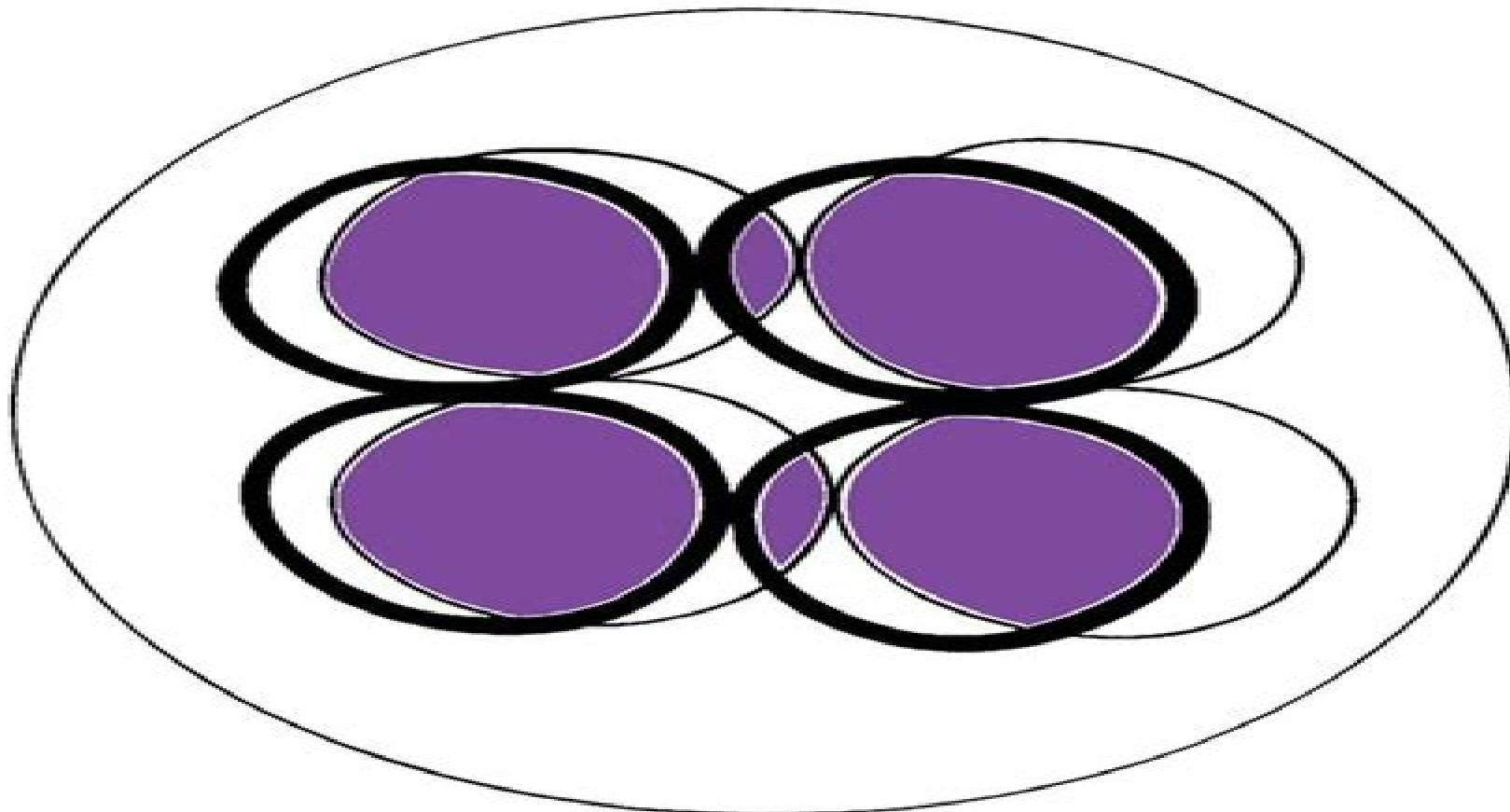
International Series of Monographs in
Pure and Applied Biology,
Zoology Division, Volume 36

Nerve Membranes

**A Study of the Biological and Chemical
Aspects of Neuron-Glia Relationships**

Patricia V. Johnston
University of Illinois at
Urbana-Champaign

Betty I. Roots
University of Toronto



Pergamon Press

Nerve Membranes

Thomas Heimburg

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Nerve Membranes Patricia V. Johnston, Betty I. Roots, 2013-10-22 Nerve Membranes A Study of the Biological and Chemical Aspects of Neuron Glia Relationships presents the various aspects of neuronal and glial structure and function. This book provides an interdisciplinary approach to the analysis of neuron glia relationships and of membranes in the nervous system. Comprised of seven chapters this book begins with an overview of the function of the biological membranes to improve, retard and regulate the rate of cellular reactions. This text then determines the differences in the organization of the cells in the nervous system in the vertebrates and the invertebrates. Other chapters examine the role of certain intermolecular forces and of water in the organization of lipid protein and lipid lipid associations. This book reviews as well the theories of biological membrane structure and considers how these contribute towards understanding the methods by which membranes perform their role. This book is a valuable resource for neuroscientists, neurochemists and researchers.

Physics of Nerves and Excitatory Membranes Thomas Heimburg, 2026-02-24 Unique reference explaining how novel concepts in thermodynamics can explain the full range of nerve cell properties and functions. Physics of Nerves and Excitatory Membranes lays out a novel concept for the function of excitatory membranes nerve cells and the brain that is based on thermodynamics demonstrating that the propagation of a nerve pulse its temporal length the occurrence of ion channel like events in nerve membranes and the action of anesthetics are all rooted in thermodynamic couplings and may be described using the fluctuation dissipation theorem that is fundamental for thermodynamics. This new view of excitatory membranes differs significantly from the traditional electrophysiological description of nerves that largely neglects the mechanical thermal and chemical properties of nerve cells and their membranes and thus struggles to explain important neuronal properties such as the action of general anesthetics. Physics of Nerves and Excitatory Membranes is didactically written and includes information on The structure and electrical properties of nerves dimensions and mechanical properties of the nerve pulse and optical changes during the action potential. Cable theory voltage gating the Hodgkin Huxley model and protein ion channels. Membrane structure and melting phase behavior domains and rafts and the influence of voltage drugs, proteins, pH and ionic strength. Heat capacity sound propagation relaxation timescales and capacitance and capacitive susceptibility. Voltage gated and mechanosensitive lipid channels temperature sensing and selectivity of lipid channels. Physics of Nerves and Excitatory Membranes is of prime interest for biophysicists studying biomembranes as well as for neurobiologists and clinical researchers studying anesthesia. Its accessible style makes it very well suited for teaching the subjects that it covers.

Mammalian Cell Membranes G. A. Jamieson, D. M. Robinson, 2014-05-20 Mammalian Cell Membranes Volume Three Surface Membranes of Specific Cell Types reviews the knowledge on surface membranes of the various cell types which have been studied in detail. This volume contains 10 contributions that cover the review of mammalian cell membranes. The topics discussed in the book include epithelial membranes and vitamin A the erythrocyte the

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