Biological Membranes, Volume 5

Biomembrane research continues to be highly topical and active. The fifth volume in this established series contains reviews of topics of current research interest. With the general theme of discussing trigger processes involving biomembranes, the chapters cover biophysical studies, ion transport systems and cellular activation, visual transduction and other trigger systems involving receptor molecules such as the acetylcholine receptor. Additional chapters on other subjects of current interest and also novel techniques will ensure that this volume will appeal to a wide variety of researchers and graduate students in biochemistry, biophysics and cell biologists.**FROM THE INTRODUCTION: Biomembrane research continues to be very active. Naturally the emphasis of the research shifts as the unresolved problems in the field become clear or changes in scientific experimentation open up new possibilities for exploration. A particular feature of current research is the considerable interest in the molecular structure and function of biomembrane proteins. Trigger processes, the processes of ion transport, are also highly topical, and new techniques such as kinetic infrared spectroscopy and electric fusion have been developed recently. This volume of Biological Membranes tries to match these changes of emphasis of current research and at the same time provides a balanced spread of overall activity in this field. Key Features* The latest discoveries in membrane biogenesis and turnover are reviewed by some of the fields leading researchers* Rapidly developing aspects and new approaches in membrane dynamics are discussed, including:* the signals which regulate intracellular traffic* membrane proteins: structure, function, synthesis, and transfer* receptors as models for the mechanisms of membrane protein turnover and dynamics* genetic

analysis of membrane biogenesis and function* endocytosis, exocytosis, and their functional correlates

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