Structural and Dynamic Properties of Lipids and Membranes

Edited by P J Quinn and R J Cherry

Portland Press Research Monograph Series No. 3

The biophysical approach for characterizing the properties of biological membranes and their constituents has proved invaluable. This book provides an account of the application of a range of biophysical methods to characterize the structure of lipids and membranes. As a result of such studies, we have a much clearer conception of the dynamic nature of cell membranes.

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The Annexins

Edited by S E Moss

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Calcium has long been recognised as playing a central role in the regulation of many physiological processes. In the past few years, a major class of calcium-binding proteins has emerged, that lacks the standard 'EF-hand' motif, binding instead through an alternative, more complex structure. The so-called annexin family presently consists of some 13 members expressed in organisms as widely diverse as higher plants, slime moulds, metazoans, insects, birds and mammals.

This book reviews the major proposed functions of the annexins, including inhibition of phospholipase A2 and of blood coagulation, exocytosis and calcium-channel activity. It concludes that the search for function in the annexin family is likely to enjoy a healthy level of controversy for several years to come.

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Edited by M J Danson, D W Hough and G G Lunt

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* Biochemical features of archaebacteria
* Molecular biological features of archaebacteria
* Proteins in extreme environments
* Biotechnological potential of the archaebacteria

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