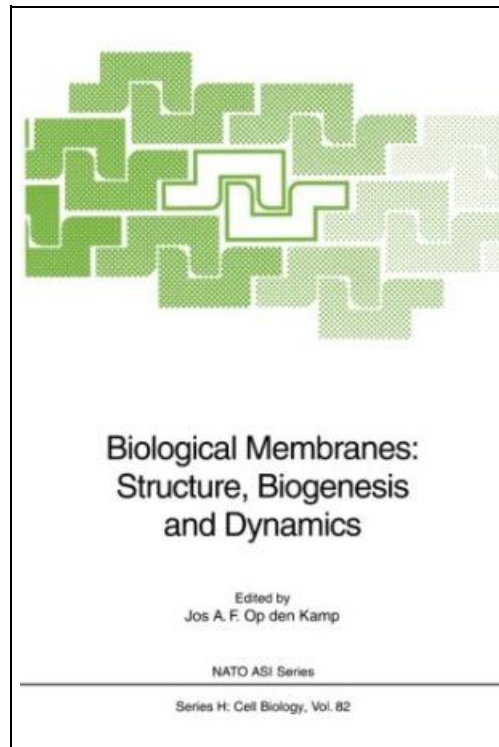


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Springer-Verlag Berlin and Heidelberg GmbH Co. KG, Germany, 2011. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.The Advanced Study Institute on Structure, Biogenesis and Dynamics of Biological Membranes, held in Cargese from June 14-26, 1993, has been dealing with four major topics in membrane biochemistry today: lipid dynamics and lipid-protein interactions, protein translocation and insertion, intracellular traffic and protein structure and folding. The lecturers discussed these topics starting from several disciplines, including biochemistry, cell biology, genetics, and biophysics. This way an interdisciplinary and very interesting view on biological membrane systems was obtained. At first an extensive overview of -mainly biophysical -techniques which can be used to study dynamic processes in membranes was presented. Sophisticated approaches such as ESR and NMR have been applied successfully to unravel details of specific lipid-protein interactions. x-ray analysis provides detailed structural information of several proteins and the possible implications for protein functions. Information obtained this way is complemented by studies on mechanisms and kinetics of protein folding. The latter information is indispensable when discussing protein translocation and insertion: processes in which folding and unfolding play essential roles. Extensive insight was offered in the complicated machinery of phospholipid biosynthesis. In particular, the application of sophisticated genetic techniques has allowed a better understanding of the mechanisms regulating the synthetic machinery and detailed studies on a variety of mutants, lacking one or more of the essential enzymes, have resulted in the beginning of a new era. Softcover reprint of the original 1st ed. 1994.



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