DESCRIPTION

In 17 contributions by leading research groups, this first comprehensive handbook in the field covers the interactions between proteins and lipids that make the fabric of biological membranes from every angle. It examines the relevant thermodynamic and structural issues from a basic science perspective, and goes on to discuss biochemical and cell biological processes. The book covers physical principles as well as mechanisms of membrane fusion and fission. Additionally, chapters on bilayer structure and protein-lipid interactions as well as on how proteins shape lipids and vice versa, membrane penetration by toxins, protein sorting, and allostERIC regulation of signal transduction across membranes make this a valuable information source for researchers in academia and industry.

ABOUT THE AUTHOR

Lukas Tamm studied Molecular Biology and Biophysics at the University of Basel (Switzerland) and at Cornell University. After obtaining his PhD in Biophysics from the University of Basel in 1982, he moved to Stanford University for postdoctoral work with H. M. McConnell.

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