MEMBRANE STRUCTURAL BIOLOGY

WITH BIOCHEMICAL AND BIOPHYSICAL FOUNDATIONS

SECOND EDITION

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The title page shows high-resolution structures of membrane proteins incorporated into a simulated lipid bilayer. The proteins are, from left to right, β2A in complex with an agonist and a trimeric G-protein, the horne receptor HasR in complex with the horne-binding protein HasA, the trimeric aspartate transporter GltPh that is a homolog for neurotransmitter transporters, the SecYEG translocon in complex with the energizing subunit SecA, the amino acid transporter LeuT that is another homolog for neurotransmitter transporters, the Na⁺, K⁺ ATPase, the dimeric chloride transporter ClC, and P-glycoprotein, a dimeric transporter that extrudes drugs.

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