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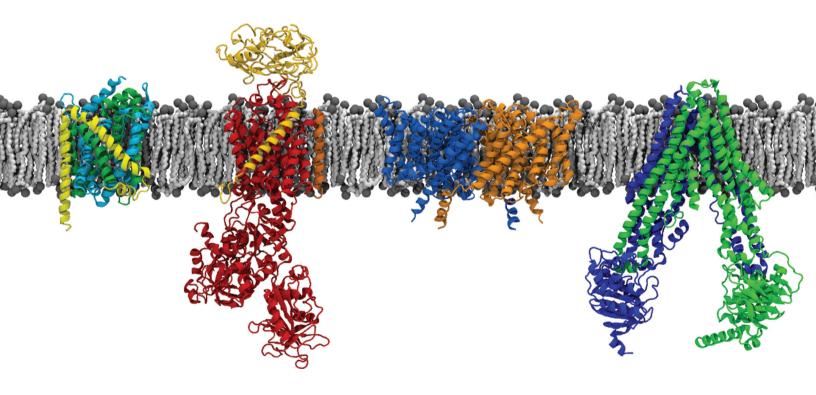
MEMBRANE STRUCTURAL BIOLOGY

MARY LUCKEY

San Francisco State University

WITH BIOCHEMICAL AND BIOPHYSICAL FOUNDATIONS

SECOND EDITION







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Cover image:

The title page shows high-resolution structures of membrane proteins incorporated into a simulated lipid bilayer. The proteins are, from left to right, $\beta 2A$ in complex with an agonist and a trimeric G-protein, the heme receptor HasR in complex with the heme-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.

Kindly provided by J. C. Gumbart, Georgia Institute of Technology, and E. Tajkhorshid, University of Illinois.