

This book describes the events of primary energy transduction in life processes. Life as we know it depends on pumping protons across membranes. New tools to study the protein complexes involved has led to recent intensified progress in the field.

Mechanisms of Primary Energy Transduction in Biology focusses on recent structural results and new biophysical insights. These have been made possible by recent advances in high-resolution protein structures, in physical techniques to study reactions in real time, and in computational methods to study and refine both structures and their dynamics. Written and edited by leading experts, chapters discuss the latest key questions in cell respiration, photosynthesis, bioenergetics, proton transfer, electron transfer and membrane transport.

Biochemists, biophysicists and chemical biologists will find this book an essential resource for a complete understanding of the molecular machines of bioenergetics.

Front cover image of
ATP synthase courtesy of
John Walker

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