

Bioenergetics: A Practical Approach (The Practical Approach Series)



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Bioenergetics is the study of energy in living organisms and is a central topic of modern biology. The movement of electrons and ions across and through membranes is important in fields such as energy transduction, cell biology, and cell signalling. Current research in bioenergetics impinges on a wide range of fundamental problems in biology and scientists in other areas have had to learn classical bioenergetic techniques. Written by international experts in the field, this handbook describes all the major techniques and methods of analysis in a practical and accessible format. Contents: Oxygen, proton, and phosphate fluxes and stoichiometries; Membrane permeability and transport; The protonmotive force; Reconstitution of bioenergetic proteins and the uses of proteoliposomes; Redox states and potentials; Control and regulation in bioenergetics; Patch clamping of bioenergetic membranes and proteoliposomes; Studies of cellular energetics using 31P-NMR; Isolation and characterization of photosynthetic reaction centres from eukaryotic organisms. This book is intended for research scientists working in the areas of mammalian biochemistry, plant biochemistry, and cell biology, studying bioenergetics.

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