



## **Frontiers of Biological Energetics: Electrons to Tissues: v. 2**

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# Frontiers of Biological Energetics: Electrons to Tissues: v. 2

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Frontiers of Biological Energetics, Volume II: Electrons to Tissues contains most of the papers presented at the International Symposium on "Frontiers of Biological Energetics: Electrons to Tissues," held at the University of Pennsylvania School of Medicine in Philadelphia, Pennsylvania on July 20-21, 1978. The symposium provided a forum for discussing the common problems of biological energetics from different perspectives and from various levels of cellular organization.

Comprised of 84 chapters, this volume begins with a section on electrons and oxygen and covers topics ranging from the chemical constitutions and subunit function of cytochrome oxidase polypeptides to the structure and function of copper atoms in cytochrome oxidase. The next section deals with structural-functional approaches to membrane energetics and includes chapters that explore rhodopsin and bacteriorhodopsin in model membranes; the mechanism of free energy utilization for active transport of calcium ions; and the regulation of cytoplasmic calcium by liver mitochondria. The final section focuses on nondestructive measurements of tissue function, paying particular attention to phosphorus nuclear magnetic resonance of diseased muscle and extracellular oxygen gradients in shock, among other topics.

This book should be of interest to scientists from a variety of disciplines, including medicine and biology.

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