



## **Molecular Mechanisms Of Oxygen Activation (Molecular Biology)**

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# Molecular Mechanisms Of Oxygen Activation (Molecular Biology)

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Molecular Mechanisms of Oxygen Activation reviews some of the major advances that have been made in our understanding of the molecular mechanisms underlying oxygen activation, with emphasis on the role of oxygen activation in contemporary biological processes. The biological role of oxygenases in the metabolism of fatty acids and steroids is discussed, along with the functions of heme-containing dioxygenases,  $\alpha$ -ketoglutarate-coupled dioxygenases, and pterin-requiring aromatic amino acid hydroxylases.

This book is comprised of 14 chapters and begins with an overview of the general properties and biological functions of oxygenases, along with the chemical aspects of oxygen fixation reactions. The reader is then introduced to research concerning fatty acid and steroid oxygenases which has appeared in the literature since 1962, paying particular attention to the mechanism of oxygenation and the biosynthesis and metabolism of steroids. Subsequent chapters explore the biological functions of a variety of oxygenases such as heme-containing dioxygenases, copper-containing oxygenases, flavoprotein oxygenases, and pterin-requiring aromatic amino acid hydroxylases. Superoxide dismutase, cytochrome c oxidase, peroxidase, and bacterial monooxygenases are also considered.

This monograph should serve as a valuable reference for biochemists as well as undergraduate and graduate students of biochemistry.

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