



Enzyme Catalysis and Regulation (Molecular Biology)

Gorden Hammes

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Enzyme Catalysis and Regulation is an introduction to enzyme catalysis and regulation and covers topics ranging from protein structure and dynamics to steady-state enzyme kinetics, multienzyme complexes, and membrane-bound enzymes. Case studies of selected enzyme mechanisms are also presented.

This book consists of 11 chapters and begins with a brief overview of enzyme structure, followed by a discussion on methods of probing enzyme structure such as X-ray crystallography and optical spectroscopy. Kinetic methods are then described, with emphasis on the general principles of steady-state and transient kinetics. The chemical principles involved in enzyme catalysis are also discussed, and case studies of a few well-documented enzymes are presented. The regulation of enzyme activity is analyzed from a nongenetic viewpoint, with particular reference to binding isotherms and models for allosterism. Two particular enzymes, aspartate transcarbamoylase and phosphofructokinase, are used as examples of well-studied regulatory enzymes. The last two chapters focus on multienzyme complexes and membrane-bound enzymes. This monograph is intended for graduate students, advanced undergraduates, and research workers in molecular biology and biochemistry.

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