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**PROTEIN CHEMISTRY and STRUCTURAL
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Insights into Enzyme Mechanisms and Functions
from Experimental and Computational Methods

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Enzymes play a crucial role in molecular processes in living organisms. They are characterized with the ability to increase the rate of chemical reactions in the cells and also with high specificity toward their substrates. The key functions of enzymes make them important targets for drug design and applications in biotechnology, protein engineering, and chemical biology.

This volume of *Advances in Protein Chemistry and Structural Biology* is focused on state-of-the-art applications of computational and experimental methods to understand different aspects structure-function relationships and mechanisms of enzymes and their applications in biotechnology, cell biology, drug design, and biomaterials.

Cover Image: Representation of the complex catalytic core domain of HIV integrase (blue, red and gray) with two cyclic peptides (green). For further details, please read Gallicchio et al. published in this volume.



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