



Applications of Structural Biology Techniques in Enzymology

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Message from the Guest Editor

In this Special Issue, we will focus on “Applications of Structural Biology Techniques to Enzymology”. We aim to collect contributions covering a wide spectrum of disciplines and techniques providing an overview of the state-of-the-art methods and extensive repertoire of structural biology techniques that contribute to the field of enzymology.

Topics include but are not limited to:

- Gene expression and protein production strategies;
- Sample quality assessment for structural biology applications;
- Biophysical characterization methodologies;
- Biochemical characterization of enzymes and complexes;
- Spectroscopic characterization of metalloenzymes (Mössbauer, Raman, XANES/EXAFS and EPR);
- Structural biology techniques for three-dimensional structure determination (MX, NMR, SAXS and cryo-EM);
- Enzyme function, specificity and catalysis;
- Ways and means in Intrinsically Disorder Protein (ISPs) studies;
- Structure-based enzyme technology for industrial, biomedical, biotechnological, and environmental applications;
- Computational approaches to enzyme’s structure and function;
- Integrative and disruptive methods in enzymology and/or structural biology.





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Message from the Editor-in-Chief

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