

Special Issue

Applications of Structural Biology Techniques in Enzymology

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.

Guest Editor

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