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Protein Crystallography

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Message from the Guest Editors

Dear Colleagues,

Protein X-ray crystallography has played dominant roles and will continue to contribute greatly to structural biology despite the recent technical revolutions in cryo-EM and XFEL (X-ray free electron laser). Structural biology dissects bio-macromolecules and their complexes at the atomic resolution, thus giving the best mechanistic connections and understanding between physiochemical structures and biological phenomena. Structural biology does not only deal with the well-ordered bio-macromolecules, but also studies flexible and disordered proteins, and phase separation mechanisms caused by some of the disordered proteins. This Special Issue of “Protein Crystallography” will cover all aspects of structural biology relevant to X-ray and electron crystallography.

Keywords

- Protein preparation and crystallization
- X-ray and electron diffraction
- Structural determination and analyses
- Structural biology
- Rational drug design
- Bio-macromolecule dynamics and interactions
- Bio-macromolecule design
- Disordered proteins and phase separation



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Guest Editors

Special Issue



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Message from the Editor-in-Chief

Welcome to *Crystal*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystal*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the crystal, where science merges with beauty and innovation.

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