



Journal of Chemistry

Special Issue on
**Advances in Structural Biology Techniques for
Proteins and Peptides**

CALL FOR PAPERS

Proteins and peptides play many critical roles in the body. They are required for the structure, function, and regulation of the body's tissues and organs. With increasing need of large molecules and biopharmaceutical therapeutics in recent years, pharmaceutical and biotech industries are highly motivated toward proteins and peptides in the search of drug discovery targets.

Proteins participate in virtually every process within cells. The dynamic behavior of proteins causes them to undergo several structural conformational changes while they perform their functions. Understanding structure features of proteins/peptides can provide important clues about how the proteins perform their functions and special interactions that these biomolecules play in the organisms.

This special issue is intended to present and discuss breakthrough technological developments in experimental and computational approaches of structural biology techniques for studying proteins and peptides.

Potential topics include, but are not limited to:

- ▶ Challenges of using biophysical techniques applied to study structural properties of proteins and peptides
- ▶ Development of novel structural biology techniques for protein systems (e.g., globular proteins, fibril proteins, and membrane proteins)
- ▶ NMR (nuclear magnetic resonance)/EPR (electron paramagnetic resonance), techniques used to solve important protein and peptide systems
- ▶ Computational approaches applied to proteins and peptides structural studies
- ▶ Investigation of dynamic properties of proteins/peptides using biophysical techniques
- ▶ Future perspective of development of structure biology techniques for biological systems

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