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Exploring Protein-Ligand Interaction: Key Insights for Drug Discovery

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Message from the Guest Editors

Dear Colleagues,

The extensive research into protein aggregation processes may offer significant insight into the key mechanisms of cellular malfunction caused by aggregation, opening new pathways for drug development. The interactions between natural and synthetic ligands/drugs, and organic/inorganic nanoparticles with proteins may lead to: (i) alteration of the biological and pharmacological activities of ligands/drugs, their delivery to cells and tissues, and their potential antioxidant capacity; (ii) partial modifications of protein physiological functions, with loss of their native structure and even inactivation.

This Special Issue is devoted to new contributions into protein-ligand interactions studied under physiological and/or pathological conditions using both experimental and theoretical approaches. Experimental and computational techniques be may into consideration. Such studies are essential for understanding biological control mechanisms and experimental and theoretical basis for the discovery, design and development of new drugs and novel therapeutic strategies.

- protein
- ligand
- molecular docking
- molecular dynamics simulation





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Message from the Editor-in-Chief

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