

Special Issue

Advances in Protein-Protein Interactions

Message from the Guest Editor

There are over 300,000 protein-protein interaction (PPI) pairs identified in the human genome. Thus, it is not surprising that modulators of PPIs—ideally small “drug-like” molecules—are urgently being sought and developed by the pharmaceutical Industry to treat unmet medical need. However, the physical characteristics of the PPI interface make this task nontrivial. Furthermore, unlike the traditional pharmaceutical approach of focusing on finding a ‘single switch that works’, it is clear that the phenotype of many diseases relies on complex networks of PPIs. Destabilising these networks for a successful therapeutic approach will require perturbing multiple key interactions.

This Special Issue focusses on recent studies aiming to investigate protein-protein interactions, with an additional aim of developing drugs to modulate these interactions. Specifically, this issue will explore the latest computational and structural biology methods, and studies which further our understanding of protein-protein interfaces and of how to better develop molecules to modulate these are welcomed.

Guest Editor

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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