

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

Dr. Jessica Holien

Biosciences and Food Technology, School of Science, College of Science, Engineering and Health, RMIT University, Melbourne, VIC 3053, Australia

Deadline for manuscript submissions

closed (15 December 2022)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



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*International Journal of
Molecular Sciences*
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MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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