

## Special Issue

# Recent Advances in Protein Bioinformatics

### Message from the Guest Editors

Bioinformatics, or the development of computational methods for understanding biological data, has seen a surge of energy in recent years. The understanding of protein structure and function has vastly benefitted from new models, methods, and tools. This revolution has mainly been fueled by an ever-increasing computational power, giving access to previously unthinkable calculations as in the case of molecular dynamics pushing the boundaries of microseconds; advanced machine-learning techniques modeling complex problems, as in the case of AlphaFold, Google's deep-neural-network algorithm for de novo prediction of protein folding; and mathematical approaches applied to complex problems from a different perspective, as in the case of RING, which analyzes amino-acid contacts exploiting graph theory. The added value deriving from the combined approach of biochemistry and computer science reflects the deep interdisciplinarity of the problems arising in the field of protein biochemistry, and the rise in mixed approaches is a trend destined to soar in the coming years.

### Guest Editors

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### Deadline for manuscript submissions

closed (5 May 2021)



## Applied Sciences

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

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