

## Special Issue

# Molecular Advances in Photosynthesis: Mechanisms of Protein Complex Functioning, Protein Structural Modifications and Protein-Protein Interactions

### Message from the Guest Editor

Photosynthesis is one of the most complex biological processes and enables the synthesis of organic compounds from carbon dioxide and water by using solar energy. Energy storage during photosynthesis is a result of the coordinated flow of the many molecular processes. These include photophysical reactions in photosynthetic antennas and reaction centers, conformational rearrangements of proteins and redox reactions inside pigment-protein complexes, electron transfer between photosynthetic complexes and mobile electron carriers.

Computer simulation techniques, such as molecular dynamics, enable the clarification of the fundamental aspects of protein activity that lay the basis for photosynthesis, and enable the prediction of the effects of making modifications to the protein structure on the formation of the complex. We invite authors to submit both original research and review papers on the molecular dynamics of proteins and the protein-protein interactions that are involved in primary photosynthetic processes.

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### Guest Editor

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### Deadline for manuscript submissions

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## International Journal of Molecular Sciences

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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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