



Molecular Advances in Proteins and Photosynthesis Dynamics

Guest Editor:

Dr. Ilya B. Kovalenko

Faculty of Biology, Lomonosov
Moscow State University, 119234
Moscow, Russia

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Message from the Guest Editor

Dear Colleagues,

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.

Dr. Ilya B. Kovalenko
Guest Editor





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Prof. Dr. Maurizio Battino

Department of
Odontostomatologic and
Specialized Clinical Sciences,
Sez-Biochimica, Faculty of
Medicine, Università Politecnica
delle Marche, Via Ranieri 65,
60100 Ancona, Italy

Message from the Editor-in-Chief

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