

Special Issue

Molecular Biology of Phototrophic Bacterial

Message from the Guest Editor

Phototrophic bacteria are a very diverse collection of organisms, encompassing those that can abstract electrons from water and evolve oxygen (similar to plants), to the anoxygenic phototrophs whose sources of electrons are molecules other than water. There are a number of species within each of these broad groupings that are further distinguished from each other with respect to their mechanisms of obtaining energy from light, and with respect to other associated aspects of their physiologies. This Special Issue focuses on the transcription regulation of phototrophic genes, which include those that code for proteins required to harvest light energy, as well as those that code for enzymes that synthesize pigments and other molecules integral to phototrophy. Rather than limiting the content to regulation in one or another kind of bacterium, this Special Issue is directed towards highlighting the variety of mechanisms that these organisms have evolved to achieve the regulation required to meet their individual needs.

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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