

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

Dr. Jill Zeilstra-Ryalls

Department of Biological Sciences, Bowling Green State University,
Bowling Green, OH 43403, USA

Deadline for manuscript submissions

closed (31 October 2022)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/62226

*International Journal of
Molecular Sciences*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ijms@mdpi.com

[mdpi.com/journal/
ijms](https://mdpi.com/journal/ijms)





International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



[mdpi.com/journal/
ijms](https://mdpi.com/journal/ijms)



About the Journal

Message from the Editor-in-Chief

The *International Journal of Molecular Sciences (IJMS)* 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, and molecular biophysics. *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.

Editor-in-Chief

Prof. Dr. José L. Quiles
Department of Physiology, Institute of Nutrition and Food Technology
"Jose Mataix", Biomedical Research Center, University of Granada,
Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, MEDLINE, Embase, CAPus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)