

Special Issue

Molecular Metabolisms and Regulations of Algae

Message from the Guest Editor

Eukaryotic algae are remarkably diverse in terms of habitat, morphology, physiology, and biochemistry, and they play a critical role in global ecology. Algae are useful models for studying metabolic processes in photosynthetic organisms and potential renewable platforms for the production of beneficial chemicals. Algae adapt to various environmental conditions by changing many aspects, from gene expression to cell physiology and morphology, through the regulation of primary and secondary metabolism. Characterizing algal metabolism and its regulation is the key to understanding their role in the environment and unlocking their potential for biotechnology applications. This Special Issue provides an open platform for the discussion of recent developments in this field, focusing on novel aspects of molecular metabolism in algae, from genes regulation and signal pathways to protein modification and enzyme activity control. Original papers, review articles, and perspectives from experts in the field are welcome.

Guest Editor

Prof. Dr. Elena Ermilova

Biological Faculty, Saint-Petersburg State University, Saint-Petersburg 199034, Russia

Deadline for manuscript submissions

closed (31 August 2024)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/166843

*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)