

## Special Issue

# Metabolism of Photosynthetic Organisms

### Message from the Guest Editors

Photoautotrophic carbon fixation occurring in green plants and photosynthetic bacteria can be considered as an interface between non-living matter and living organisms. Assimilated carbon enters into a complex system of biochemical reactions, which produces a huge variety of organic molecules (metabolites). This complex biochemical network enables living organisms to maintain growth, development, and reproduction (central metabolism) and to build up protection against adverse environmental conditions (specialized metabolism). In a living cell, the reactions of central and specialized metabolism are intertwined and interconnected through common substrates and regulatory mechanisms... In the present Special Issue, we would like to invite new studies and reviews dealing with fundamental and practical aspects of metabolism in photoautotrophic organisms from photosynthetic bacteria to angiosperms.

### Guest Editors

Dr. Tatyana V. Savchenko

Institute of Basic Biological Problems, Russian Academy of Sciences,  
142290 Pushchino, Russia

Dr. Andrej Frolov

Department of Bioorganic Chemistry, Leibniz-Institut für  
Pflanzenbiochemie, Weinberg 3, 06120 Halle (Saale), Germany

### Deadline for manuscript submissions

closed (26 February 2021)



## Life

an Open Access Journal  
by MDPI

Impact Factor 3.4  
CiteScore 6.0  
Indexed in PubMed



[mdpi.com/si/47535](https://mdpi.com/si/47535)

*Life*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[life@mdpi.com](mailto:life@mdpi.com)

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

[life](https://life.mdpi.com)





# Life

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.4  
CiteScore 6.0  
Indexed in PubMed



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



## About the Journal

### Message from the Editor-in-Chief

*Life* (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

---

### Editor-in-Chief

Prof. Dr. Lluís Ribas de Pouplana

Institute for Research in Biomedicine (IRB Barcelona), The Barcelona  
Institute of Science and Technology, 08028 Barcelona, 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, CAPIus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q1 (Biology) / CiteScore - Q1 (Paleontology)