

## Special Issue

# Photobiomodulation Therapy: Novel Medical Applications and New Insight into the Intracellular Molecular Impact

### Message from the Guest Editors

Photobiomodulation therapy (PBMT) is a noninvasive painless treatment already used in different human pathologic conditions. PBMT exploits the performance of laser light to promote tissue regeneration and wound healing, to alleviate pain and to decrease the inflammatory response through immunomodulation. Despite the documented beneficial effects in several human disorders—for example, skin wounds, oral mucositis, ulcers, arthritis, and musculoskeletal pain—PBMT is still limitedly employed in the clinical practice, although its potential applications are currently increasing. PBMT acts primarily on mitochondria, thus promoting and influencing several intracellular pathways, but other actors should be discovered. The gap of knowledge concerning the intracellular impact of PBMT can account for the selective employment of laser devices for few pathologies. This Special Issue will invite researchers to address this topic, with special emphasis on new clinical applications of PBMT as well as on new insights into the molecular mechanisms at the basis of the effect of laser light within the cells. Both articles and research articles are encouraged.

---

### Guest Editors

Dr. Luisa Zupin

Department of Medical Genetics, IRCCS Ospedale Infantile Burlo Garofolo, Trieste, Italy

Prof. Dr. Sergio Crovella

Department of Biological and Environmental Sciences, College of Arts and Sciences, University of Qatar, Doha 2713, Qatar

---

### Deadline for manuscript submissions

closed (30 April 2022)



## Life

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.4  
CiteScore 7.1  
Indexed in PubMed



[mdpi.com/si/84694](https://mdpi.com/si/84694)

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





# Life

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.4  
CiteScore 7.1  
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)