

Special Issue

Advances in Biomedical Frontier Technologies and Disease Diagnosis

Message from the Guest Editor

This Special Issue focuses on the latest innovations in biomedical frontier technologies, including nanomedicine, biomaterials, gene therapy, drug delivery, bacteriotherapy, and bioinformatics. Our goal is to highlight emerging approaches that enhance diagnostic precision, therapeutic efficacy, and personalized medicine.

Nanomedicine and biomaterials are revolutionizing the development of targeted therapies by enabling precise drug delivery and tissue regeneration. Gene therapy offers groundbreaking potential for treating hereditary and acquired diseases, while drug delivery systems are evolving to optimize treatment specificity and minimize side effects. The role of bacteriotherapy in modulating the microbiome and targeting pathological conditions represents another promising frontier in biomedical research.

This Special Issue invites original research articles and reviews covering a broad spectrum of topics, including novel nanobiotechnology applications, advances in bioinformatics-driven diagnostics, and innovative therapeutic strategies. Contributions exploring the intersection of engineering, medicine, and computational biology are particularly welcome.

Guest Editor

Dr. Alexey Yaremenko

1. School of Medicine, Aristotle University of Thessaloniki, 541 24 Thessaloniki, Greece
2. Brigham and Women's Hospital, Harvard Medical School, Boston, MA 02115, USA

Deadline for manuscript submissions

31 August 2026



Life

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.0
Indexed in PubMed



mdpi.com/si/235492

Life
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
life@mdpi.com

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





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)