

Special Issue

Laser Applications in Medicine: Current Status and Emerging Challenges

Message from the Guest Editor

Being faster and less invasive with high precision, lasers have penetrated most medical disciplines over the past half century. Medical lasers are characterized by specific wavelengths, power outputs, and pulse durations tailored to target different tissues, and they achieve the desired therapeutic outcomes. The future of lasers in medicine is poised for continued innovation and expansion, driven by technological advancements and a deeper understanding of biological interactions. As the field evolves, the synergy between laser technology and medical expertise will likely yield even more sophisticated and effective treatments, solidifying the role of lasers as indispensable assets in the pursuit of improved health outcomes. This Special Issue invites contributions describing new methodological aspects of lasers and their applications in medicine. We encourage authors to share their opinions, knowledge, and achievements. In addition, it is essential to present the impact of the latest disclosures on applications in the field of human activity and include examples of new measurement methods. All of this is to improve our scientific understanding of the subject.

Guest Editor

Dr. Irit Juwiler

Department of Electrical and Electronics Engineering, Shamoon College of Engineering, Ashdod 77245, Israel

Deadline for manuscript submissions

16 March 2026



Biomedicines

an Open Access Journal
by MDPI

Impact Factor 3.9
CiteScore 6.8
Indexed in PubMed



mdpi.com/si/240409

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

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





Biomedicines

an Open Access Journal
by MDPI

Impact Factor 3.9
CiteScore 6.8
Indexed in PubMed



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



About the Journal

Message from the Editor-in-Chief

Biomedicines (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to *Biomedicines*, be it original research, review articles, or developing Special Issues of current key topics.

Editor-in-Chief

Prof. Dr. Felipe Fregni

1. Neuromodulation Center and Center for Clinical Research Learning, Spaulding Rehabilitation Hospital and Massachusetts General Hospital, Harvard Medical School, Boston, MA 02114, USA
2. Department of Epidemiology, Harvard T.H. Chan School of Public Health, Boston, MA 02115, USA

Author Benefits

High Visibility:

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

Journal Rank:

JCR - Q1 (Pharmacology and Pharmacy) / CiteScore - Q1 (Medicine (miscellaneous))

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).