

Special Issue

Advances in Natural and Synthetic Anticancer Agents: Mechanistic Insights and Translational Pathways

Message from the Guest Editor

Natural products and their synthetic derivatives, along with synthetic anticancer compounds, remain pivotal in the discovery of cancer therapies, providing distinctive structural diversity and significant biological activity. The emergence of high-throughput screening platforms, computational modelling, and molecular profiling technologies has significantly enhanced the efficiency and our mechanistic understanding of the identification of novel anticancer drugs. This Special Issue focuses on the identification and advancement of compounds derived from plant and marine sources, as well as metal-based agents and their synthetic counterparts, with a specific emphasis on their modulation of the critical signalling pathways involved in tumor progression, apoptosis, angiogenesis, metastasis, and drug resistance. This Special Issue seeks to propel the advancement of natural product-inspired medicines for clinical use in oncology by integrating pathway-driven mechanistic investigations with contemporary discovery tools.

Guest Editor

Dr. Gul-E-Saba Chaudhry

Institute of Climate Adaptation and Marine Biotechnology, Universiti Malaysia Terengganu, Kuala Terengganu 21030, Malaysia

Deadline for manuscript submissions

30 April 2026



Biomedicines

an Open Access Journal
by MDPI

Impact Factor 3.9
CiteScore 6.8
Indexed in PubMed



mdpi.com/si/253238

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, CAPus / 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).