



an Open Access Journal by MDPI

Advances in Immune Cell Biology: Insights from Molecular Perspectives

Guest Editor:

Dr. Paolo Fagone

Department of Biomedical and
Biotechnological Sciences,
University of Catania, Via Santa
Sofia, 97, 95123 Catania, Italy

Deadline for manuscript
submissions:

31 December 2024

Message from the Guest Editor

In recent years, immune cell biology has undergone significant advancements, shedding light on the mechanisms that regulate the behavior of immune cells in both health and disease. This Special Issue of Biomedicine invites authors to contribute original research papers and reviews on the molecular mechanisms underlying autoimmune, immunoinflammatory, and hematological disorders. This issue explores the molecular mechanisms that enable the differentiation of immune cells from precursor cells, their polarization into effector cells, and the functioning of the regulatory signaling pathways that shape immune responses. Additionally, it focuses on the processes of immune memory formation and on the genetic and molecular alterations leading to the transformation of normal immune cells into neoplasms. The primary goal is to expand our understanding of these diseases, paving the way for more targeted diagnostic and therapeutic approaches.



mdpi.com/si/206657

Special Issue



an Open Access Journal by MDPI

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

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.

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*, *CAPLus / SciFinder*, and other databases.

Journal Rank: JCR - Q1 (Pharmacology and Pharmacy) / CiteScore - Q2 (*Medicine (miscellaneous)*)

Contact Us

Biomedicines Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/biomedicines
biomedicines@mdpi.com
[X@Biomed_MDPI](https://twitter.com/Biomed_MDPI)