Special Issue

Signaling Networks and Gene Expression in Immune Cells

Message from the Guest Editors

Innate and adaptive immune responses are shaped by intricate signaling networks. During immune cell activation, metabolism becomes highly adaptable to promptly provide necessary materials according to the organism's requirements. Metabolic processes provide nutrients and energy and also contribute to gene expression reprogramming and transcription of multiple signal proteins. The metabolic and transcriptional profiles drive the development of various immune cell subsets. Indeed, metabolic signaling is closely related to epigenetic and, in turn, gene expression changes in both innate and adaptive immune cells. For our upcoming Special Issue, we invite researchers to contribute their valuable work, whether original research or review articles, on the most recent findings of signaling networks, including immunometabolic pathways and mechanisms of gene expression in immune cells. We further encourage contributions that delve into the regulation, mechanisms, pathways, gene expression reprogramming, cell types, and mediators involved in the interplay between immunity and metabolism, as well as emerging therapies.

Guest Editors

- Dr. Santarsiero Anna
- Dr. Vittoria Infantino
- Dr. Paolo Convertini

Deadline for manuscript submissions closed (31 March 2025)



Biomedicines

an Open Access Journal by MDPI

Impact Factor 3.9 CiteScore 5.2 Indexed in PubMed



mdpi.com/si/185419

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

mdpi.com/journal/ biomedicines





Biomedicines

an Open Access Journal by MDPI

Impact Factor 3.9 CiteScore 5.2 Indexed in PubMed





About the Journal

Message from the Editor-in-Chief

Biomedicines (ISSN 2227-9059) is an open access iournal 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

 Neuromodulation Center and Center for Clinical Research Learning, Spaulding Rehabilitation Hospital and Massachusetts General Hospital, Harvard Medical School, Boston, MA 02114, USA
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 - Q2 (Medicine (miscellaneous))

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.6 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2024).