Special Issue

MDSCs in Health and Disease

Message from the Guest Editor

Myeloid-derived suppressor cells (MDSCs) are a heterogeneous population of immature myeloid cells with immunosuppressive functions, particularly on T lymphocytes. They exhibit remarkable plasticity, allowing them to either remain in this suppressive state or differentiate into monocytes/macrophages, dendritic cells, or neutrophils. MDSCs play key roles in physiological processes such as wound healing and the response to acute organ injury. However, they are also implicated in the persistence of chronic inflammation and have been proposed as critical mediators of immunosuppression during viral infections and tumor immune evasion. MDSCs are associated with various pathophysiological conditions characterized by the coexistence of inflammation and immunosuppression. The aim of this Special Issue is to provide a dedicated forum to summarize current knowledge and promote further research into the physiology of MDSCs and their roles in pathophysiology.

Guest Editor

Prof. Dr. Víctor Sánchez-Margalet

Department of Biochemistry and Molecular Biology, Hospital Universitario Virgen Macarena, Sevilla, Spain

Deadline for manuscript submissions

20 April 2026



International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.0 Indexed in PubMed



mdpi.com/si/239719

International Journal of Molecular Sciences Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 ijms@mdpi.com

mdpi.com/journal/ ijms





International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.0 Indexed in PubMed





Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences, Sez-Biochimica, Faculty of Medicine, Università Politecnica delle Marche, Via Ranieri 65, 60100 Ancona, Italy

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, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

