

Special Issue

Intercellular Communication in the Tumor Microenvironment

Message from the Guest Editor

Intercellular communication plays a major role in the tumor microenvironment (TME), where cancer cells interact with various cellular components to support tumor growth, invasion, and metastasis. The TME consists of cancer cells, immune cells, stromal cells, blood vessels, and the extracellular matrix, all of which engage in complex communication networks. Cancer cells can interact with neighboring cells, such as immune cells or stromal cells, through surface receptors and ligands, and thus, direct cell-to-cell contact. Additionally, tumor cells release various signaling molecules, including growth factors, cytokines, and chemokines, to communicate with surrounding cells. Moreover, extracellular vesicles (EVs), such as exosomes, have been described to play a crucial role in intercellular communication within the TME.

The aim of this Special Issue is to create a collection of articles fully dedicated to the complex and dynamic process of intercellular communication within the TME, which may accelerate the development of novel therapeutic strategies targeting the communication networks and ultimately ameliorate disease progression.

Guest Editor

Dr. Nils Ludwig

Department of Cranio- and Maxillofacial Surgery, Hospital of the University of Regensburg, Franz-Josef-Strauß-Allee 11, 93053 Regensburg, Germany

Deadline for manuscript submissions

closed (31 August 2024)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/177538

*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](https://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



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



About the Journal

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)