Special Issue

Role of Angiogenesis Inhibitors in Cancer

Message from the Guest Editor

Tumor angiogenesis is important for cancer progression. Hence, anti-angiogenic therapies have been developed and used to treat millions of cancer patients. Almost all clinically approved anti-angiogenic drugs block VEGF signaling. However, several reports have shed light on resistance, adaptation, insufficient efficacy and toxicity, which limit the success in human cancers. Mechanisms of resistance and adaptation have been extensively explored and indicate several cellular and molecular mechanisms that compensate the inhibition of VEGF pathways. The crosstalk between oncogenic signaling and tumor-associated stroma cells provides a strong rationale for combining angiogenesis inhibitors with targeted anticancer agents. A combination of angiogenesis and immune checkpoint inhibitors is ongoing in clinical trials and preclinical studies have found that this combination is beneficial. Emerging evidence has brought about a paradigm shift in understanding the mechanisms of angiogenesis by demonstrating that the activation of metabolic pathways orchestrates endothelial cell proliferation and vessel sprouting.

Guest Editor

Dr. Nor Eddine Sounni
Laboratory of Tumor and Development Biology, GIGA-Cancer, University of Liège, 4000 Liège, Belgium

Deadline for manuscript submissions

closed (31 December 2019)

International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed

mdpi.com/si/28636

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

MDPI

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

MDPI

About the Journal

Message from the Editor-in-Chief

The *International Journal of Molecular Sciences* (*IJMS*) 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, and molecular biophysics. *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. José L. Quiles
Department of Physiology, Institute of Nutrition and Food Technology "Jose Mataix", Biomedical Research Center, University of Granada, Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

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)