



## Pharmacologic Targeting of the Tumor Microenvironment

Guest Editor:

**Dr. Peter C. Hart**

College of Pharmacy, Roosevelt  
University, 1400 N Roosevelt  
Blvd, Schaumburg, IL 60173, USA

Deadline for manuscript  
submissions:

**closed (30 June 2021)**

### Message from the Guest Editor

Dear Colleagues,

Progress in our understanding of the complex composition of the tumor microenvironment has revealed the critical influence of stromal cells in the ability of tumors to rapidly grow and metastasize to secondary tissues. Recent research has identified novel signaling mechanisms by which tumor–stroma interactions, facilitate key mechanisms involved in tumor cell proliferation, clonogenicity, migration, adhesion, and invasion. These interactions potentially provide a new set of therapeutic liabilities to target pharmacologically, to refine clinical strategies, and ultimately to improve patient outcomes. Here, we shall discuss the ability of repurposed and novel compounds to modulate tumor–stroma interactions with a focus on the efficacy of pharmacologic agents to impede bidirectional signaling mechanisms required for tumor development and metastatic progression.

This issue of the International Journal of Molecular Sciences is open to both original research and review articles focusing on advances in preclinical evaluation of pharmacologic approaches to modulate the tumor microenvironment in order to inhibit cancer progression.

Dr. Peter C. Hart  
Guest Editor





an Open Access Journal by MDPI

## 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

## 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.

## 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 (Inorganic Chemistry)

## Contact Us

---

*International Journal of Molecular  
Sciences* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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

mdpi.com/journal/ijms  
ijms@mdpi.com  
X@IJMS\_MDPI