



Nanoparticles for Tumor Imaging and Therapy 2.0

Guest Editor:

Prof. Dr. Paola Manini

Department of Chemical
Sciences, University of Naples
"Federico II", Complesso
Universitario di Monte S. Angelo,
Via Cupa Nuova Cinthia 21, 80126
Naples, Italy

Deadline for manuscript
submissions:

closed (31 July 2023)

Message from the Guest Editor

In this century, nanoparticles (NPs) have been given a great amount of attention by biomedical researchers. In terms of tumor-targeting, NPs utilize two basic strategies comprising either passive or active targeting. Passive targeting is based on physicochemical properties. Specifically, when NPs are injected intravenously, they generally circulate longer in the blood stream compared to free drugs. In angiogenic tissues such as tumors, NPs penetrate the fenestrated structure of blood vessels more at the disease site, which in turn leads to significant accumulation of the drug, which is aided in part by slow lymphatic drainage. On the other hand, active targeting relies on a biological interaction between ligands on the surface of NPs and the cell target, which further increase specificity.

Considering these advantages of NPs as carriers, this Special Issue will explore the biomedical application of NPs based on polymers and targeted to tumors.





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, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/ijms
ijms@mdpi.com
X@IJMS_MDPI