Special Issue

Nanotechnology in Cancer Treatment

Message from the Guest Editors

The unique size of nanoparticles, in the 10–200 nm range, endows them with interesting and unique biological properties. They are small enough to penetrate most areas of the body and be ingested by cells, but large enough to carry multiple effector and targeting capabilities on their surface and within them. These unique capabilities have generated tremendous interest and effort to utilize nanoparticles of many sorts for cancer therapy and the field is moving very rapidly. The challenge of this field is that it lies at the intersection of multiple areas of extensive complexity, namely the inherent complexity of any cancer treatment and the variety of nanoparticle types that can be synthesized and component options that can be included, such as drugs, cytokines, targeting molecules, toxins, lipids and metallic particles. Further complexity involves the intersection of chemistry, engineering, cell biology, virology (viruses are nanoparticles), immunology and cancer biology, which all participate in this field. At this interface of multiple scientific fields are unique opportunities to develop new cancer therapies with specific physical attributes of nanoparticles.

Guest Editors

Prof. Dr. Steven Fiering

Department of Microbiology and Immunology, Geisel School of Medicine at Dartmouth, Hanover, NH 03755, USA

Dr. Robert Ivkov

Department of Radiation Oncology and Molecular Radiation Sciences, Johns Hopkins University School of Medicine, 1550 Orleans St., Baltimore, MD 21231, USA

Deadline for manuscript submissions

closed (30 April 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/11500

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*, 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)