



Multifunctional Nanoparticles for Anticancer Drug Delivery Systems

Guest Editor:

Dr. Amr Amin

College of Medicine, University of
Sharjah, Sharjah P.O. Box 27272,
United Arab Emirates

Deadline for manuscript
submissions:

31 August 2024

Message from the Guest Editor

Dear Colleagues,

The field of nanotechnology has led to the development of many innovative strategies for the effective detection and treatment of cancer, overcoming limitations associated with conventional cancer diagnosis and therapy. Compared to conventional chemotherapy, targeted drug delivery systems are advantageous in many ways as they minimize drug resistance and improve therapeutic value for cancer patients. Moreover, multifunctional nanoparticle-based platforms of anticancer drug delivery have paved the way for innovative therapies that are more efficacious, less invasive, and less toxic.

For this Special Issue, we discuss the various types of materials used to synthesize multifunctional nanoparticles for cancer imaging and therapy and summarize recent and ongoing research in the fabrication of these designer NPs against cancer. We highlight the three main components that make up a multifunctional NP in cancer drug delivery and imaging: the targeting ligand, the anticancer therapeutic agent, and the imaging modality.

Dr. Amr Amin
Guest Editor





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical
Biology and Phytochemistry,
University of Münster,
Corrensstrasse 48, D-48149
Münster, Germany

Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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](#), [MEDLINE](#), [PMC](#), [Reaxys](#), [CaPlus / SciFinder](#), [MarinLit](#), [AGRIS](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Chemistry, Multidisciplinary*) / CiteScore - Q1 (*Chemistry (miscellaneous)*)

Contact Us

Molecules Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/molecules
molecules@mdpi.com
[X@Molecules_MDPI](https://twitter.com/Molecules_MDPI)