



Nanobiotechnology for Drug Discovery and Diagnostics

Guest Editor:

Prof. Dr. Gerardo Byk

Bar-Ilan University, Ramat Gan,
Israel

Deadline for manuscript
submissions:

closed (31 January 2023)

Message from the Guest Editor

Dear Colleagues,

Nanometric systems are used for controlled drug release, gene delivery, tissue engineering, diagnostics, and theranostics. These systems are composed of polymers, lipids, and inorganic materials and can be generated by self-assembling special templates through polymerization or crystalization. Many nanometric systems need fine-tuned physical properties to make them suitable for specific biological applications. However, one property is common for all: the need for biocompatibility and bioavailability.

This Special Issue on “Nanobiotechnology for Drug Discovery and Diagnostics” aims to provide an overview of the last advances in these areas, starting from the generation of new nanometric systems with improved physico-chemical properties that provide high biocompatibility and bioavailability and their application in the different areas of drug development and diagnostics.





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 molecular chemistry, now in its 30th 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 all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of 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 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

Contact Us

Molecules Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/molecules
molecules@mdpi.com
[X@Molecules_MDPI](#)