

## Special Issue

# Nanomedicine Based Drug Delivery Systems: Recent Developments and Future Prospects

### Message from the Guest Editor

Since the discovery of nanomedicine-based drug delivery carriers such as nanoparticles, liposomes, and self-nanoemulsifying drug delivery systems (SNEDDS), enormous progress has been achieved in the field of innovative active biomolecule drug delivery systems. The use of nanomedicines as drug delivery carriers has garnered a lot of interest in recent years for the therapeutic targeting of specific cells. Biocompatibility, biodegradability, low toxicity, drug delivery efficiency, drug targeting efficiency, and improved solubility, bioavailability, and bioactivities are all advantages of these nanosized drug delivery carriers. These nanomedicine-based drug delivery carriers can also improve the pharmacokinetic and pharmacodynamics efficiencies of active therapeutic biomolecules, allowing for a more sustained, targeted, and controlled drug delivery system. This Special Issue aims to collect recent advances, developments, and future prospects on the design, development, characterization, and biological evaluation of nanomedicine-based drug delivery systems for active therapeutic biomolecules.

### Guest Editor

Dr. Faiyaz Shakeel

Department of Pharmaceutics, College of Pharmacy, King Saud University, Riyadh, Saudi Arabia

### Deadline for manuscript submissions

closed (31 December 2022)



## Molecules

an Open Access Journal  
by MDPI

Impact Factor 4.6  
CiteScore 8.6  
Indexed in PubMed



[mdpi.com/si/102500](https://mdpi.com/si/102500)

*Molecules*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[molecules@mdpi.com](mailto:molecules@mdpi.com)

[mdpi.com/journal/  
molecules](https://mdpi.com/journal/molecules)





# Molecules

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.6  
CiteScore 8.6  
Indexed in PubMed



[mdpi.com/journal/  
molecules](https://mdpi.com/journal/molecules)



## About the Journal

### 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.

---

### Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

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

---

### Author Benefits

#### 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)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.1 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).