Special Issue

Combating Cancer Stemness and Drug Resistance with Natural-Product Derived Lead Structures

Message from the Guest Editors

Tumor development encompasses a complex interplay of abnormal cell proliferation and differentiation and a high degree of cellular heterogeneity and epithelial–mesenchymal transition (EMT). To date, targeted drug therapy and chemotherapy are the main pharmaceutical treatment options. Thus, the concept of elimination or "re-sensitization" of resistant cells within the heterogenous tumor cell population with natural compounds or synthetic derivatives to increase chemotherapy success rates by combating drug resistance and cancer stemness is promising.

This Special Issue of Molecules on "Combating Cancer Stemness and Drug Resistance with Natural-Product-Derived Lead Structures" will include articles and reviews focused on the most recent advances in the identification and pharmacological characterization of natural products or novel synthetic lead structures to target drug-resistant cancer cells and resistance-promoting tumor-associated cells within the tumor microenvironment or cancer stem cells.

Guest Editors

Prof. Dr. Nicole Teusch

Department of Biomedical Sciences, Institute of Health Research and Education, University of Osnabrück, 49074 Osnabrück, Germany

Dr. Komal Kalani

Chemistry Lab, Florida International University, Post St Lucie, FL, USA

Deadline for manuscript submissions

closed (31 October 2021)

Molecules

an Open Access Journal by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed

mdpi.com/si/61751

Molecules
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
molecules@mdpi.com

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

MDPI

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).