



Synthesis of Bioactive Compounds

Guest Editor:

Dr. Nicolai A. Aksenov

Department of analytic and organic chemistry, FSAEI HE "North-Caucasus Federal University", Stavropol, Russia

Deadline for manuscript submissions:

closed (31 March 2023)

Message from the Guest Editor

In the past few decades, the emergence of new highly pathogenic strains of viruses and microorganisms such as SARS-CoV-2, drug-resistant tuberculosis and malaria (i.e., superbugs), has presented challenges that require urgent response. Effective treatment of cancer is another important and unresolved problem. Tumors develop through genetic and epigenetic changes that modify fundamental cellular programs for growth and proliferation, followed by the natural selection of reprogrammed cells that best adapt to the constant fight against human immunity and chemotherapy drugs.

To address these issues, a number of breakthrough synthetic methodologies need to be developed which enable the efficient assembly of new molecules and make it possible to achieve the high variability of substituents necessary for studying structure–biological activity relationships.

This Special Issue aims to gather scientific articles devoted to the synthesis and study of the activity of previously unknown compounds, as well as fully synthetic papers that describe new effective approaches to known biologically active compounds, without further evaluation of biological properties.





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)