



Non-Natural Multi-Heteroatom Heterocycles: New Chemical Space

Guest Editors:

Prof. Dr. Panayiotis A. Koutentis

Department of Chemistry,
University of Cyprus, P. O. Box
20537, Nicosia 1678, Cyprus

Dr. Andreas S. Kalogirou

Department of Life Sciences,
School of Sciences, European
University Cyprus, 6 Diogenis Str.,
Engomi, P.O. Box 22006, 1516
Nicosia, Cyprus

Deadline for manuscript
submissions:

closed (31 December 2021)

Message from the Guest Editors

Owing to the ever-increasing competitiveness within the chemical industries, there is a need to discover and develop new chemical space. New chemical structures offer competitive advantages for securing intellectual property (IP) rights. Many new and potentially useful chemicals are regularly discovered from natural sources, which is a rich pool of unusual chemical structures. Nevertheless, chemical structures that arise from nature can lead to difficulties in securing and upholding IP as these can be the subject of counter claims of 'bio-piracy'.

A complementary source of new chemical space comes from the exploration of unusual heterocyclic systems that are rich in heteroatoms. Many such systems are not available from natural sources but are man-made. Often, chemical techniques that are alien to nature's own synthetic tool box are needed to create and develop these heterocycles.

This Special Issue focuses on the synthesis, chemistry, applications and theoretical studies of such multi-heteroatom heterocycles whose core heterocyclic structure has not yet been reported in any structure derived from natural sources.





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/X@Molecules_MDPI)