



Synthesis and Bioanalysis of Steroids and Steroid Biosynthesis Inhibitors

Guest Editors:

Prof. Dr. Franz Bracher

Department of Pharmacy, Center
for Drug Research, Ludwig-
Maximilians University Munich,
Butenandtstraße 5-13, 81377
Munich, Germany

Dr. Christoph Müller

Department of Pharmacy-Center
for Drug Research, Ludwig-
Maximilians University Munich,
Butenandtstraße 5-13, 81377
Munich, Germany

Deadline for manuscript
submissions:

closed (31 January 2022)

Message from the Guest Editors

Steroids are a versatile and structurally diverse class of molecules widespread in nature. They are known as cell-building material and as signaling molecules. In recent years, our understanding of the role of steroids and steroid biosynthesis enzymes has significantly evolved. Recent studies have shown that steroids have diverse and hitherto unknown physiological functions. They are involved in the pathomechanisms of diseases or play a role in the inflammatory process in humans. Furthermore, the main target of antifungal therapy is the ergosterol biosynthesis or directly ergosterol, and related mechanisms have been found in other pathogenic organisms such as protozoa. Thus, the function of the steroids, the enzymes involved in their biosynthesis, as well as inhibitors of these enzymes as drug candidates are of great interest. Hence, the demand for authentic steroid standards for their use in bioassays and for analytical approaches cannot be met by simply extraction of steroids from natural sources. Consequently, new methods for isolation and total and partial synthesis of steroids are highly demanded.





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)