



Natural Products from Defined Microbial Interactions

Guest Editors:

Dr. Christine Beemelmanns

Chemical Biology of Microbe-
Host Interactions, Leibniz
Institute for Natural Product
Research and Infection Biology
e.V., Hans-Knöll-Institute (HKI)
Visitors address:
Beutenbergstrasse 11a
Mail- and delivery address: Adolf-
Reichwein-Straße 23
07745 Jena, Germany

**Prof. Dr. Michael Thomas-
Poulsen**

Section for Ecology and
Evolution, Department of
Biology, University of
Copenhagen, Copenhagen,
Denmark

Deadline for manuscript
submissions:
closed (31 May 2019)

Message from the Guest Editors

Dear Colleagues,

In the last few decades, chemical ecology has eavesdropped on the chemical language underlying microbe–host interactions. Despite increasing recognition that bacteria–animal interactions are the basis of evolution, the identity of signaling molecules underlying these interactions have remained largely enigmatic. Therefore, more efforts describing the chemistry and signaling molecules underlying defined multipartner interactions are pressingly needed. Furthermore, the structural diversity of natural products serving as signalling molecules provides a rich source of novel biologically/pharmacologically-active compounds. This Special Issue welcomes original research and reviews of literature on important aspects of natural products involved in defined bacteria–bacteria, bacteria–eukaryotes and fungi–eukaryotes interaction scenarios.

Dr. Christine Beemelmanns
Prof. Michael Thomas-Poulsen
Guest Editors





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)