



Polyketides-II

Guest Editor:

Prof. Dr. Kira Weissman

Molecular and Structural
Enzymology Group, UMR 7365
CNRS-UL, Ingénierie Moléculaire
et Physiopathologie Articulaire
(IMoPA), Lorraine University,
Faculté de Médecine, Batiment
Biopôle, 9 Avenue de la Forêt de
Haye, CS 50184, 54506
Vandoeuvre-lès-Nancy, CEDEX,
France

Deadline for manuscript
submissions:

closed (31 March 2019)

Message from the Guest Editor

Dear Colleagues,

The study of polyketide synthase (PKSs) enzymes has grown over the last quarter-century into a dynamic area, encompassing a multiplicity of complementary approaches, from metagenomics to microbiology, in vitro enzymology to structural biology, and molecular genetics to synthetic biology. This second Special Issue aims to encompass papers at the forefront of research in the field, by treating in particular the following topical issues: Novel types of PKS domain enzymology; new types of biosynthetic pathways in which PKSs are implicated; efforts to discover new polyketides by exploiting advances in genome mining (identification of novel producers, activation of silent pathways, heterologous expression, etc.); new insights into PKS function gleaned from structural biology and allied biophysical approaches; emerging information on the functions of these metabolites in the environment (chemical ecology); and novel synthetic biology approaches towards manipulating PKSs towards the generation of analogs for biological testing.

Prof. Dr. Kira Weissman
Guest Editor





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 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

Contact Us

Molecules Editorial Office
MDPI, Grosspeteranlage 5
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)