



Elicitation as a Wonderful Cellular Communication within the Plant

Guest Editors:

Dr. Redouan Elboutachfaiti

Prof. Dr. Emmanuel Petit

Dr. Cédric Delattre

Deadline for manuscript
submissions:

closed (1 July 2020)

Message from the Guest Editors

To adapt to their environment, plants have developed an efficient and multifaceted immune system through cellular signalization using elicitor messengers. When we talk about elicitors we have to talk about an amazing cellular and sub-cellular communication between plants and pathogens. Thanks to this biochemical language, several defense reactions could be initiated, such as reactive oxygens species and the synthesis of secondary metabolites such as phytoalexins and antimicrobial proteins to inhibit pathogen proliferation.

This Special Issue essentially aims to: (i) Cover the chemical research of the main elicitors (poly- and oligosaccharides, glycopeptides, glycolipids, etc.); (ii) the isolation, analytical characterization, and chemical structure of elicitors; (iii) main biological activities of elicitors regarding chemical structure/function relationships; (iv) Propose the main strategies to generate new families and derivatives of bio-elicitors using chemical and enzymatic processes; (v) Isolate and identify the main plant-derived secondary metabolites involved in plant defence responses; (vi) Evaluate the extracted bioactive plant-derived secondary metabolites.





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, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/molecules
molecules@mdpi.com
[X@Molecules_MDPI](#)