Special Issue

Elicitation as a Wonderful Cellular Communication within the Plant

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.

Guest Editors

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Deadline for manuscript submissions

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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.

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