

Special Issue

Boosting the Production of Bioactive Compounds: Biotechnology and Metabolic Engineering of Medicinal Plants

Message from the Guest Editors

The perception and exploration of plants has changed significantly as a result of exceptional advances in biotechnology. Plant material has long been applied for various industrial purposes; however, its role in treating human health problems cannot be overestimated. The objective of this Special Issue is to present the current knowledge and trends in scaling up the synthesis of Plant-derived bioactive compounds. Research on the optimization of tissue culture conditions by physical factors or growth medium components, endogenous and exogenous enzyme and/or transcription factor overexpression, is especially—but not exclusively—welcome. **Importantly:** (1) Manuscripts must report on the exact active ingredient or defined extract (papers describing the effects of mixed extraction of unknown composition will not be considered for publication); (2) the manuscripts covering attempts to increase the level of bioactives in tissue and organ culture by various factors must present at least the theoretical background of the molecular mechanism responsible for the production boosting.

Guest Editors

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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