

## Special Issue

# Biotechnological Production of Phytochemicals

### Message from the Guest Editors

This Special Issue is related to the biotechnological production of phytochemicals and aims to acquire a chemical and biological approach for the synthesis of compounds with pharmacological activity produced by plants. We invite investigators to contribute original research and review articles that will stimulate the continuing efforts to increase phytochemical production from different plant species by employing several biotechnological techniques. A special interest will be given to papers exploring plant cells for optimized and large-scale production of compounds of interest in an economic and environment-friendly way. Potential topics include but are not limited to:

- a) Plant-derived natural compounds, their mode of action and synthesis;
- b) Production of phytochemicals using various biotechnological means;
- c) Cell (suspension or immobilized) and organ (root/shoot) culture for plant-derived natural products;
- d) Genetically-modified plants;
- e) Hairy root culture;
- f) Two-stage and two-phase culture systems;
- g) Effect of physicochemical factors on phytochemical production;
- h) Phytochemicals with various applications and industrial perspectives.

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### Guest Editors

Prof. Dr. Mercedes Bonfill

Dr. Sonia Malik

Dr. Raul Sanchez-Munoz

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### Deadline for manuscript submissions

closed (15 December 2021)



## Molecules

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## About the Journal

### Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 30th 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 all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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### Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.1 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).