

## Special Issue

# Recent Advances and Perspectives in Engineering Plant-Derived Metabolism

### Message from the Guest Editors

Plant plasticity is a plant's ability to adapt to and cope with a changing environment. This capability is mostly due to the biosynthesis of an incredible array of structurally complex, bioactive natural compounds that guarantee growth and survival. These molecules are also a source of food and feed, commodity products, and pharmaceuticals, therefore also facilitating human survival and wellbeing. Understanding the biosynthesis, regulation, and evolution of these biomolecules in plants is of great importance for increasing crop yield and quality, and enhancing the application of plant-derived compounds in several fields. This Special Issue aims to publish contributions on plant metabolism discovery, plant and microorganism engineering, and novel applications of plant compounds. **Keywords:**

- metabolic engineering
- plant biotechnology
- specialized metabolites
- biosynthetic pathways
- phytochemicals
- human and animal health
- novel commodities

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### Guest Editors

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### Deadline for manuscript submissions

closed (20 April 2023)



## Applied Sciences

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## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

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