Special Issue

Bioactive Metabolites from Fungal Endophytes Associated with Medicinal Plants

Message from the Guest Editors

This Special Issue focuses on endophytic fungi that are symbiotic with medicinal plants as a strategic reservoir of novel bioactive molecules. Revolutionary advances in spatial metabolomics and CRISPR-Cas-mediated biosynthetic gene cluster (BGC) editing have enabled unprecedented deciphering of metabolic crosstalk networks within host–microbe symbiotic systems. This Special Issue is devoted to metabolomics in endophytic fungi that are symbiotic with medicinal plants, and the topics we aim to cover include (but are not limited to) the following: 1. Multi-omics-driven elucidation of metabolic networks and BGC discovery in plant-symbiotic endophytes; 2. Metabolomics-driven identification of pharmacologically active natural products; 3. The symbiotic interplay between endophytic fungi and their host medicinal plants. Furthermore, we emphasize translational applications, including bioengineered heterologous expression of high-value metabolites and sustainable bioproduction platforms that can be used to replace wild plant extraction.

Guest Editors

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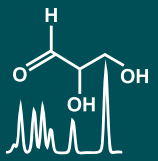

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Message from the Editor-in-Chief

The metabolome is the result of the combined effects of genetic and environmental influences on metabolic processes. Metabolomic studies can provide a global view of metabolism and thereby improve our understanding of the underlying biology. Advances in metabolomic technologies have shown utility for elucidating mechanisms which underlie fundamental biological processes including disease pathology. *Metabolites* is proud to be part of the development of metabolomics and we look forward to working with many of you to publish high quality metabolomic studies.

Editor-in-Chief

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