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Fungal Secondary Metabolites Diversity and Exploring for the Bioactive Metabolites

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Message from the Guest Editors

Fungi are a huge treasure trove of bioactive compound resources. It is estimated that there are more than one million fungal species in the world, including 100 thousand known species. Compared with plants, fungi have a greater diversity of secondary metabolites because the living environment of fungi varies greatly. Fungi can not only synthetize well-known antibiotics such as penicillin, cephaloridine and cyclosporin, but also growth regulators, immunoregulators, antioxidants etc., through which fungi can crosstalk with the environment. However, the secondary metabolites of more than 90% of fungi have not been studied. This has seriously affected people's understanding of fungal language and the utilization of the fungal secondary metabolites. Therefore, this Special Issue will attempt to provide a platform for promoting research on fungal secondary metabolites' analysis, identification, biosynthesis, bioactivities and metabolism.

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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.

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