



Microorganism Metabolism and Biotechnology Applications

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Message from the Guest Editor

Dear Colleague,

Metabolic engineering has significantly advanced the development of biotechnology and the bio-industry since its emergence in the early 1990s. In recent years, with the rapid development of cutting-edge fields such as synthetic biology, genome editing, deep machine learning, and automation technology, the field of metabolic engineering has been pushed to unprecedented heights. Metabolic engineering can modify and reconstruct the metabolism of microorganisms, yeast, or plants, optimize existing biochemical reactions and metabolic pathways, introduce exogenous metabolic pathways, and even create metabolic pathways that do not exist in nature to achieve and enhance the biological synthesis and manufacturing capabilities of amino acids, organic acids, chemical alcohols, antibiotics, vitamins, chemical raw materials, and other biotechnology products.

This Special Issue focuses on microbial metabolism and its applications in various fields, including the optimization of microbial metabolism and its regulation, the development of metabolic engineering tools and techniques, and the application of synthetic biology to design and construct novel metabolic pathways.





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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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