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Microbial Manufacture of Natural Products

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Message from the Guest Editors

The field of microbial manufacture of natural products focuses on harnessing the power of microorganisms to produce a wide range of valuable compounds. Microbial cell factories are extensively employed for the sustainable production of high-value chemicals. The Special Issue "Microbial Manufacture of Natural Products" in Microorganisms presents research on bioproduction pathways and methods utilized by industrial bacteria, actinomycetes, and fungi for producing high-value natural products.

1. Systems biology and synthetic biology in the context of cellular manufacturing:
(a) Innovative bacterial biosynthesis of metabolites or antimicrobial bioactive compounds;
(b) Extraction, refinement, and elucidation of the chemical properties of metabolites produced by cellular manufacturing systems.

2. Microbial production processes:
(a) Optimizing the biosynthetic pathways and fermentation process for secondary metabolites, peptides, amino acids, and organic acids;
(b) Exploring alternative biosynthetic strategies as alternatives to chemical synthesis.

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Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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