



Advances in Metabolic Engineering of Industrial Microorganisms

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Message from the Guest Editors

The Special Issue welcomes original research articles, reviews, and perspectives that span a wide spectrum of topics within the realm of the metabolic engineering of industrial microorganisms, including, but not limited to, the following:

- Rational and synthetic biology approaches for enhancing microbial productivity;
- Strain improvement and optimization through genetic modification and selection;
- Directed evolution and adaptive laboratory evolution for enhanced phenotypes;
- Systems biology-guided metabolic pathway design and optimization;
- Pathway engineering for the production of biofuels, chemicals, pharmaceuticals, and biomaterials;
- Novel tools and techniques for fine-tuning metabolic pathways and regulation;
- Engineering strategies for enhancing strain robustness, stability, and scalability.

We aim to foster interdisciplinary collaboration and catalyze advancements in the metabolic engineering of industrial microorganisms. We encourage researchers and experts to contribute their groundbreaking work to this Special Issue, driving innovation and knowledge dissemination in the dynamic field of metabolic engineering.





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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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