

Special Issue

Strategies for Microbial Bioprocess Optimization

Message from the Guest Editors

This Special Issue particularly welcomes reviews and original research papers that explore the use of metabolic engineering for the bioproduction of value-added compounds, biofuels, or bio-energy using renewable feedstocks and waste streams. Themes to be addressed may include but are not limited to the following areas: -Strain engineering for efficient utilization of diverse feedstocks, including C1 substrates, agro-industrial feedstocks, and waste streams. - Adaptive laboratory evolution. -Application of metabolic modeling approaches, such as kinetic modeling or genome-scale metabolic modeling, to optimize substrate utilization. -Machine-learning based methods to enhance carbon utilization and bioprocess optimization. -Synthetic and natural microbial communities. -Life cycle assessment and techno-economic analysis to evaluate the environmental and economic sustainability of engineered microbial systems.

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You are invited to contribute a research article or a comprehensive review for consideration and publication in *Bioengineering* (ISSN 2306-5354). *Bioengineering* is published in open access format – research articles, reviews and other contents are released on the Internet immediately after acceptance. The scientific community and the general public have unlimited and free access to the content as soon as it is published. *Bioengineering* provides an advanced forum for the science and technology of bioengineering. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

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