# **Special Issue**

# Construction of High-Efficiency Production Strains by Synthetic Biology and Metabolic Engineering

## Message from the Guest Editors

Bio-economy-derived carbon neutrality has attracted lots of interest internationally due to the advantages of addressing the issues of climate change and global warming. Microbial cell factories, as one of the key components of bio-economy, could be driven by the enabling technologies of synthetic biology and metabolic engineering. Although there have been rapid renovations of synthetic biology tools in the last two decades, it is still challenging to employ these tools more efficiently for strain construction. In addition, the efficiency of engineered strains is still a bottleneck to scaling-up in the industry. In this Special Issue, we ask for contributions of high-efficiency production strains driven by the latest synthetic biology tools and metabolic engineering strategies. We would like to emphasize the production of primary and secondary metabolites from engineered bacteria and yeast. We are convinced that those products will not only be important examples within the bio-economy to reach carbon neutrality but that they will also demonstrate the advancements in synthetic biology tools and metabolic engineering strategies.

#### **Guest Editors**

Dr. Yanjun Li

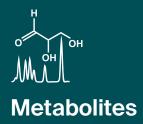
Dr. Meijuan Xu

Dr. Wei Jiana

Dr. Huadong Peng

## Deadline for manuscript submissions

closed (20 December 2023)



an Open Access Journal by MDPI

Impact Factor 3.7 CiteScore 6.9 Indexed in PubMed



mdpi.com/si/141532

Metabolites
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
metabolites@mdpi.com

mdpi.com/journal/ metabolites





## Metabolites

an Open Access Journal by MDPI

Impact Factor 3.7 CiteScore 6.9 Indexed in PubMed



## **About the Journal**

## 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.

### Editor-in-Chief

#### Dr. Amedeo Lonardo

Internal Medicine, Ospedale Civile di Baggiovara, Azienda Ospedaliero-Universitaria, 41126 Modena, Italy

### **Author Benefits**

## **High Visibility:**

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Biochemistry and Molecular Biology) / CiteScore - Q2 (Endocrinology, Diabetes and Metabolism)

### **Rapid Publication:**

manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.4 days after submission; acceptance to publication is undertaken in 3.6 days (median values for papers published in this journal in the first half of 2025).

