



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

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### 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.





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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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