



## Metabolic Engineering

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### Message from the Guest Editor

Dear Colleagues,

Metabolic engineering is an exciting field aiming at the manipulation of metabolic networks for the production of low and high molecular weight compounds using all kinds of biological systems, for curing metabolism-related diseases and for improving food production and quality.

Therefore, this Special Issue of *Metabolites* will focus on metabolic engineering with a special emphasis on aspect of analysis of metabolites in this context, on the design of metabolic networks, on design and engineering of diverse production systems for endogenous or novel metabolites and on the application of metabolic engineering tools for studying metabolic effects of diseases and potential medical interventions in metabolic network activities. This Special Issue will highlight computational, experimental or technical approaches for metabolic engineering.

Prof. Dr. Elmar Heinzle  
*Guest Editor*

### Keywords:

- Metabolomics for metabolic engineering
- metabolic engineering
- systems biology
- secondary metabolites
- therapeutic protein production
- metabolic regulation





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## Editor-in-Chief

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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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