

## Special Issue

# Application of Advanced Synthetic Biological Approaches in Microbial Platforms

### Message from the Guest Editor

The presence of a robust microbial platform is recognized as one of the key factors in the efficient production of biochemicals and biologics. The development of microbiological platforms has focused on performing mutations and genetic engineering on hosts screened from natural resources. The field of synthetic biology mainly includes (1) the synthesis of genes, genomes, and life; (2) the synthesis of new metabolic pathways; (3) modular engineering of proteins; and (4) the development of biosensors, the majority of which can be verified in modified cells. Toward this end, it is important to define the meaning of chassis cells clearly and determine how to design and produce microbial platform with novel metabolic function cells for industrial applications in the future. This Special Issue focuses on the current progress in synthetic biology-aided pathway rewiring in microbial platform (chassis cells) and discusses its impact on the production of biochemicals and biologics. We enthusiastically invite papers presenting novel inventions with the values of basic research applications for advanced synthetic biology-aided microbial platform development.

### Guest Editor

Dr. Prihardi Kahar

Department of Chemical Science and Engineering, Graduate School of Engineering, Kobe University, Rokkoudai-chou 1-1, Nada, Kobe 657-8501, Japan

### Deadline for manuscript submissions

closed (20 February 2024)



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Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[processes@mdpi.com](mailto:processes@mdpi.com)

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### Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

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