

Special Issue

Advances in Synthetic Biological Approaches to Microbial Engineering

Message from the Guest Editors

Synthetic biology has emerged as a transformative field in microbial engineering, offering unprecedented opportunities to design and construct biological systems with novel functionalities. This rapidly evolving discipline integrates biology, engineering, and computer science principles to create microorganisms with tailored capabilities for diverse applications. Recent advancements in synthetic biology have significantly expanded our capacity to manipulate and program microbial genomes, leading to breakthroughs in biomanufacturing, environmental remediation, biosensing, and medical therapies. This Special Issue on “Advances in Synthetic Biological Approaches to Microbial Engineering” aims to convene eminent researchers to support industrial microbiology research, highlight state-of-the-art advancements, and promote practical implementations. It will comprise accepted submissions addressing genetically modified microorganisms’ creation, development, fundamental characteristics, and applications in diverse biochemical processes and biomanufacturing.

Guest Editors

Dr. Prihardi Kahar

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

Dr. Gregory Guirimand

Engineering Biology Research Center, Kobe University, Rokkoudai-chou 1-1, Nada, Kobe 657-8501, Japan

Deadline for manuscript submissions

31 January 2027



Processes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.5



mdpi.com/si/231460

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

[mdpi.com/journal/
processes](https://mdpi.com/journal/processes)





Processes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.5



[mdpi.com/journal/
processes](https://mdpi.com/journal/processes)



About the Journal

Message from the Editor-in-Chief

You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

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

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, AGRIS, and other databases.

Journal Rank:

CiteScore - Q2 (Chemical Engineering (miscellaneous))