

Special Issue

Bioprocess Systems Engineering Applications in Pharmaceutical Manufacturing

Message from the Guest Editors

Biopharmaceutical and pharmaceutical manufacturing are shifting to a modernized mode, built on the application of computer-based methods of process systems engineering. This development is also supported by the process analytical technology initiative (PAT) and quality by design (QbD) methodology for enhancing the understanding of integrated processes. The major goals of this effort can be summarized into developing a mechanistic understanding of a wide range of process steps, including the development of technologies to perform online measurements and real-time control and optimization. Furthermore, minimization of the number of empirical experiments and the model-assisted exploration of the process design space are targeted. Even if tremendous progress has been achieved so far, there is still work to be done in order to realize the full potential of the process systems engineering toolbox.

Guest Editors

Prof. Dr. Ralf Pörtner

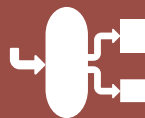
Institute of Bioprocess and Biosystems Engineering, Hamburg
University of Technology, 21073 Hamburg, Germany

Dr. Johannes Möller

Institute of Bioprocess and Biosystems Engineering, Hamburg
University of Technology, 21073 Hamburg, Germany

Deadline for manuscript submissions

closed (15 April 2022)



Processes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.1



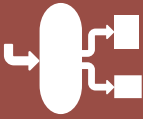
mdpi.com/si/81596

Processes

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 5.1



[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:

JCR - Q2 (Engineering, Chemical) / CiteScore - Q2 (Chemical Engineering (miscellaneous))