

Special Issue

Developing Biophysical Tools

Message from the Guest Editors

This Special Issue on “Developing Biophysical Tools” will bring the most recent advances of *in silico*, *in vitro*, and *in vivo* methods to a broad audience, with a focus on three main aspects: Firstly, understanding which biological questions might be addressed with novel tools; secondly, new ideas on how to enhance traditional methods or develop entirely new ones; and thirdly, how to combine methods and tools from different disciplines. The latter point is particularly important to gain a holistic insight into the complex world of biological interactions. Topics include but are not limited to:

- Developing methods and analyses of molecular dynamics simulations;
- Spatiotemporal modeling and simulations;
- Statistical physics applied to experimental phenomena (transport, phase changes etc.);
- Multicorrelative, experimental approaches (microscopy + AFM, microscopy + microfluidics, etc.);
- Novel sensor designs (tension, pH, Voltage);
- Acquiring dynamic information from static structural information.

Guest Editors

Dr. Kristyna Pluhackova

Department of Biosystems Science and Engineering, Eidgenössische Technische Hochschule (ETH) Zürich, Mattenstr. 26, 4058 Basel, Switzerland

Dr. Gotthold Fläschner

Department of Biosystems Science and Engineering, ETH Zürich, Mattenstr. 26, 4058 Basel, Switzerland

Deadline for manuscript submissions

closed (15 December 2021)



Processes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.1



mdpi.com/si/59537

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))