



Biological Networks

Guest Editors:

Dr. Rudiyanto Gunawan

Department Chemical &
Biological Engineering, University
of Buffalo, 335 Bell Hall, Buffalo,
NY 14260, USA

Dr. Neda Bagheri

Chemical & Biological
Engineering, McCormick School
of Engineering Northwestern
University, Evanston, IL 60208,
USA

Deadline for manuscript
submissions:

closed (31 January 2018)

Message from the Guest Editors

Dear Colleagues,

Biological networks describe systems of interacting components that provide context-specific responses. Networks pervade biology, governing biological processes at all scales, from subcellular protein signaling to entire ecosystems. An underlying characteristic of biological networks is the inherently robust response to stimuli/perturbations that are “greater than the sum of its parts”.

This special issue on “Biological Networks” aims to curate novel advances in the development and application of network modeling and systems analysis to address longstanding challenges in biology. Topics include, but are not limited to:

1. **Development** of new tools to interrogate biological networks
2. **Prediction** of emergent biological phenomena through mathematical modeling
3. **Analysis** of robust biological responses to uncover underlying design principles





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

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

Message from the Editor-in-Chief

Processes (ISSN 2227-9717) provides an advanced forum for process/system-related research in chemistry, biology, material, energy, environment, food, pharmaceutical, manufacturing and allied engineering fields. The journal publishes regular research papers, communications, letters, short notes and reviews. Our aim is to encourage researchers to publish their experimental, theoretical and computational results in as much detail as necessary. There is no restriction on paper length or number of figures and tables.

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)*)

Contact Us

Processes Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/processes
processes@mdpi.com
[X@Processes_MDPI](https://twitter.com/Processes_MDPI)