



## Systems Biomedicine

Guest Editors:

**Dr. Ashlee N. Ford Versypt**

School of Chemical Engineering,  
Oklahoma State University,  
Stillwater, OK 74078, USA

**Dr. Belinda S. Akpa**

Molecular Biomedical Sciences  
and Electrical & Computer  
Engineering, North Carolina State  
University, Raleigh, NC 27607,  
USA

Deadline for manuscript  
submissions:

**closed (31 January 2019)**

### Message from the Guest Editors

In this Special Issue "Systems Biomedicine", we encourage manuscripts that utilize and create process systems engineering tools and experimental or computational/mathematical models to make clinically-relevant predictions of physiological functions and to incorporate interactions between medical therapies and healthy and diseased tissues.

Topics include but are not limited to:

- Development of new tools to facilitate single- or multi-scale modeling of biomedical systems
- Design of validated experimental (animal, 3D tissue mimic, microfluidic, etc.) or computational/mathematical models of physiological and pathophysiological tissues and/or organ systems for biomedical applications
- Prediction and analysis of physiological or pathophysiological phenomena
- Optimization of schedules of medical interventions or therapies





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](http://www.mdpi.com)

[mdpi.com/journal/processes](http://mdpi.com/journal/processes)  
[processes@mdpi.com](mailto:processes@mdpi.com)  
[X@Processes\\_MDPI](https://twitter.com/Processes_MDPI)