

Special Issue

Advances in Organoid Research and Developmental Engineering

Message from the Guest Editor

Organoids have become valuable tools for the study of developmental processes, pathophysiology and genomics and the pharmacological interaction of tissues and drugs. Advances have been made to generate organoids with a high similarity to specific tissues and organs, but challenges regarding vascularization, extended co-culture with other organoids and systemic implementation remain. This Special Issue on Advances in Organoid Research and Developmental Engineering will focus on original research articles and comprehensive reviews that focus on the current advances in the generation of organoids and their application to i) model development and disease processes, ii) generating functional tissue, and iii) organs-on-chips. Topics of interest for this Special Issue include, but are not limited to, the following:

- Generation of novel tissue-specific organoids.
- Vascularization of organoids.
- ‘Organ-on-a-chip’ approaches.
- Functional assays involving organoids.
- Interspecies chimeric organoids.
- Organoids to organs and scale-up approaches.
- Interaction of matrix components in the differentiation and maintenance of organoids and tissue constructs.

Guest Editor

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Bioengineering* (ISSN 2306-5354). *Bioengineering* is published in open access format – research articles, reviews and other contents are released on the Internet immediately after acceptance. The scientific community and the general public have unlimited and free access to the content as soon as it is published. *Bioengineering* provides an advanced forum for the science and technology of bioengineering. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

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