

## 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.

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### Guest Editor

Dr. Peter Hauser

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### Deadline for manuscript submissions

closed (30 September 2023)



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### Editor-in-Chief

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