

Special Issue

Three-Dimensional Models of Pediatric Cancers

Message from the Guest Editor

This Special Issue of *Bioengineering* on "Three-Dimensional Models of Pediatric Cancers" calls for original research papers and reviews presenting and discussing advanced technologies to build predictive models of pediatric tumors. Topics of interest for this Special Issue include, but are not limited to, the following:

- Biomaterials for better mimicking the pediatric tumor microenvironment
- Tissue engineering approaches for developing 3D models of pediatric cancers, such as organoids, cell sheet technologies, porous scaffolds, hydrogels, and tumor-on-a-chip, among others
- Studies of extracellular vesicles in 3D models of pediatric cancers
- Advanced bioengineering technologies and methods to improve 3D pediatric models, such as bioprinting or electrospinning
- Studies of drug responses and cancer therapies using 3D models of pediatric cancers
- Development of high-throughput platforms using 3D models of pediatric cancers
- Advanced image-based techniques to track pediatric cancer cells in 3D constructs

Guest Editor

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Deadline for manuscript submissions

closed (4 June 2021)



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About the Journal

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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 17 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).

