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Bioprinting of in vitro tissue and disease models

CALL FOR PAPERS 2024

Submission Deadline:
December 31, 2024

AIMS & SCOPE

Bioprinting technologies have the potential to transform 3D in vitro cell and tissue culture allowing for more realistic modeling of tissue/organ development, physiology, and disease progression as compared to traditional 2D culturing systems and animal models. In this Special Issue, we welcome original contributions addressing the current achievements and future challenges involving the design and engineering strategies for mimicking tissue complexity, customization of bioinks and bioprinting techniques, and proof of concept works and functional studies involving bioprinted in vitro 3D models for better understanding of the pathogenesis and applications in the testing/validation of drugs and drugs candidates, cancer research and personalized medicine.

Learn more

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KEYWORDS

- Bioprinting
- Cancer, soft microfluidics
- Bioinks
- In vitro 3D models
- Tissue engineering
- Microphysiological systems
- Organoids
- Spheroids
- Drugs testing
- Personalized medicine

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