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3D Cell Culture in Disease Modeling and Tissue Regeneration

Guest Editors:

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Deadline for manuscript
submissions:
closed (30 September 2023)

Message from the Guest Editors

This Special Issue aims to collect articles detailing the contribution of 3D cell culture to uncovering novel insights into the molecular mechanisms regulating pathogenesis in the advancement of cell-based biofabrication and in enabling regenerative medicine strategies. Original research articles, review articles, and short communications are welcome.

Potential topics include but are not limited to the following:

- Development or application of in vitro 3D disease models
- Novel co-culture protocols and multicellular systems
- Evaluation of tumor/cancer spheroids (tumoroids)
- Three-dimensional culture of stem cells
- Organoids and organotypic cultures
- New tissue engineering strategies
- Bioprinted cell-based models
- Biomimetic scaffold development and biocompatibility
- Novel biomaterials used in preclinical or clinical studies
- Validation of drugs and compounds in 3D in vitro systems
- Testing of natural compounds in 3D models
- Organ-on-a-chip and cell-based sensors
- Fluidic and label-free approaches for 3D modeling
- Standardization of 3D models



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Special Issue



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Message from the Editor-in-Chief

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