

Special Issue

Recent Progress in 3D Cellular Models of the Tumor Microenvironment

Message from the Guest Editor

We invite you to submit original research articles, reviews, and perspectives that explore recent progress in 3D cellular models of the tumor microenvironment. The tumor microenvironment is a complex, dynamic ecosystem comprising tumor cells, stromal cells, the extracellular matrix, and various signaling molecules. While traditional 2D cell cultures and animal models have been foundational, they often fail to recapitulate the physiological relevance and complexity of the TME. To bridge this gap, advanced 3D cellular models have emerged as powerful tools, offering a more predictive and realistic platform for cancer research. We invite researchers to submit research articles with a focus on the following key areas:

- **Organ-on-a-Chip and Microfluidics**
- **Cancer Immunotherapy**
- **3D Model Systems and biomaterials**
- **Cell Mechanics and Mechanotransduction**

By bringing together cutting-edge research from these diverse areas, this Special Issue will provide a comprehensive overview of the state-of-the-art in 3D cellular models and accelerate the translation of new discoveries into clinical practice. We look forward to your contributions.

Guest Editor

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Deadline for manuscript submissions

closed (31 January 2026)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/250887

*International Journal of
Molecular Sciences*
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Message from the Editor-in-Chief

The *International Journal of Molecular Sciences (IJMS)* is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, and molecular biophysics. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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