Special Issue

3D In Vitro Tissue and Organ Models

Message from the Guest Editors

Worldwide, the scientific community is focusing on advancing new technologies for tissue engineering, cell biology, 3D printing, and microfluidics to overcome the problems associated with existing in vitro models. Undeniably, creative design concepts and the inclusion of the developmental and cellular biology of the target tissues or organs are moving us closer to this ultimate goal. In addition, developments in material science for the manufacture of scaffolds or microfluidic systems using specific techniques are contributing significantly to the reconstitution of cellular microenvironments for whole organs or functional human tissue units. Many in vitro human models, however, require further improvement, refinement, and/or validation to be considered as functional substitutes of tissues for drug testing that will replace preclinical animal studies or of organs for transplantation. This Special Issue welcomes your submission of research manuscripts and review articles that are related to advancements in the fields of tissue engineering, cell biology, material sciences and nanoscience. We look forward to receiving your submissions!

Guest Editors

Dr. Nur Mustafaoglu

Prof. Vasif Hasirci

Dr. Ken Takahashi

Dr. Menekse Ermis

Deadline for manuscript submissions

closed (31 October 2021)

Micromachines

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 7.1
Indexed in PubMed

mdpi.com/si/72826

Micromachines
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
micromachines@mdpi.com

mdpi.com/journal/micromachines

Micromachines

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 7.1
Indexed in PubMed

mdpi.com/journal/micromachines

MDPI

About the Journal

Message from the Editor-in-Chief

Micromachines (ISSN 2072-666X) is a forum for cutting-edge interdisciplinary research on micro and nanoscale science and technology. We emphasise the practical, real-world value of micro and nanotechnologies that will place *Micromachines* in a leading position among engineering and technology journals.

Editor-in-Chief

Prof. Dr. Nam-Trung Nguyen
Queensland Quantum and Advanced Technologies Research Institute, Griffith University, West Creek Road, Nathan, QLD 4111, Australia

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, dblp, and other databases.

Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Mechanical Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the second half of 2025).