

## 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!

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### Guest Editors

Dr. Nur Mustafaoglu

Prof. Vasif Hasirci

Dr. Ken Takahashi

Dr. Menekse Ermis

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### Deadline for manuscript submissions

closed (31 October 2021)



## Micromachines

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### Message from the Editor-in-Chief

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### Editor-in-Chief

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