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## Microfluidic Based Organ-on-Chips and Biomedical Application

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submissions:

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### **Message from the Guest Editor**

The main topic of this Special Issue is the study of microfluidic-based organ-on-chip technology in the biomedical field (e.g., drug screening, cancer therapy, pathology and disease model). This Special Issue aims to gather original articles and reviews showing research advances, fabrication, innovative applications, new challenges, and future perspectives of organ-on-chip technology in important areas such as biomedicine, precision medicine and disease research.

Organ-on-chip is a new frontier technology involving different disciplines. It refers to a bionic microphysiological system created on a bioengineered microfluidic device, which represents the functional unit at the organ level. It can generalize the physiologically related structure and function of organs, as well as the interactions between multiple organs in the body, thus providing an alternative model for predicting human responses to various drugs and environmental stimuli.



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# Special Issue



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## Message from the Editor-in-Chief

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