



Organs-on-Chips

Guest Editor:

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Message from the Guest Editor

This Special Issue thus aims to depict the current scenario in this field of animal and human organs-on-a-chip models. Reports on the development of anchillary technologies, such as on-chip or downstream sensing, perfusion systems, and engineering approaches to support cell development, are welcome. New strategies and revised approaches for manufacturing organs-on-a-chip will be included, including new techniques to solve the limitations of traditionally used plastics (e.g., molecules adsorption, hydrophobicity, and transparency), using alternative, sustainable, manufacturing processes and materials. Examples of contributions could address:

- Animal and human organs-on-a-chip models
- Validation of organs-on-a-chip models for drug testing and drug screening, toxicity, and toxicology studies
- Novel methods of analysis of the organs' effluents
- Non perturbative analytical methods
- Sensors integration and techniques for *in situ* monitoring
- Multiple organs connections and validation





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Message from the Editor-in-Chief

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