



Towards Next-Frontier Patients-on-Chip as In Vitro Avatars for Personalised Medicine

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Message from the Guest Editors

Dear Colleagues,

How can we boost precision or personalized medicine translating patients on chip? How can we increase the predictability of clinical outcomes?

Organ-on-a-chip technology plays a cutting-edge role in increasing the physiological relevance and level of clinical mimicry of smart human-relevant coculture methods with potential enhanced predictive capability of response to foods, radiation, drugs, toxins, and infectious pathogens. Several systems are now available in the market.

This Special Issue will target novel organ-on-a-chip with different biological sample sourcing (e.g., organoids, spheroids, iPS cells, biopsies) and with applications ranging from drug discovery and disease modeling to regenerative medicine.

Reports are welcome focusing on innovations in design and manufacturing (i.e., microfabrication, 3D bioprinting, tissue engineering techniques) or data acquisition (microscopy, spectroscopy, omics-technologies, in-line sensoristics) or data processing (AI-assisted analysis and in silico mathematical models).

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Message from the Editor-in-Chief

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