

## Special Issue

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

### Message from the Guest Editors

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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### Guest Editors

Dr. Adele De Ninno

CNR-Istituto di Fotonica e Nanotecnologie, Via Fosso del Cavaliere 100, 00133 Roma, Italy

Dr. Luca Businaro

CNR-Istituto di Fotonica e Nanotecnologie, Via Fosso del Cavaliere 100, 00133 Roma, Italy

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### Deadline for manuscript submissions

closed (30 November 2023)



## International Journal of Molecular Sciences

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Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[ijms@mdpi.com](mailto:ijms@mdpi.com)

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### Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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### Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,  
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle  
Marche, Via Ranieri 65, 60100 Ancona, Italy

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