## **Special Issue**

## 3D Technology in Biomedicine: Studying Molecular Mechanisms in Health and Disease

## Message from the Guest Editor

Medical research has exploited 3D models to investigate preventive and reparative strategies for several human diseases. These in vitro models have the advantage of serving as reliable biomimetic systems, thus reducing animal use and the often hardly available human explants. Different 3D technologies (spheroids) and organoids, bioprinted tissue models, skin equivalent, organ-on-a-chip, etc.) have been set up by researchers to investigate the molecular mechanisms in healthy, diseased, and regenerating tissues. In this scenario, the present Special Issue is aimed at illustrating the contribution of 3D technology in biomedical research. As guest editors, we encourage researchers from the academy and industry to present their results in reviews or original articles: this will highlight the current state-of-the-art and innovative strategies in the application of 3D models to elucidate the molecular underpinnings of biological phenomena in health and disease. This special issue is supervised by and assisted by Dr. Greta Camilla Magnano (University of Trieste).

### **Guest Editor**

Dr. Flavia Carton

Department of Cellular, Computational and Integrative Biology (CIBIO), Centre for Medical Sciences (CISMED), University of Trento, 38123 Trento, Italy

## Deadline for manuscript submissions

20 September 2025



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International Journal of Molecular Sciences Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 ijms@mdpi.com

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## Message from the Editor-in-Chief

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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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