



## Physiological and Pathophysiological Responses to Biomaterials 2.0: From Nano- to Microscale Effects and Interactions

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Deadline for manuscript submissions:

**closed (15 May 2024)**

### Message from the Guest Editors

Dear Colleagues,

In recent years, the intertwinement of molecular physiology, biomaterials science and tissue engineering has led to the elucidation and definition of many mechanisms of cell–material and tissue–material interactions. Nevertheless, the increasing investigations on new biomaterial formulations and biomedical devices at the nano-, meso- or microscale levels imply the identification of new types of impact and extremely diverse responses from cells and tissues, which may vary upon the physiological or pathophysiological processes which the biomaterial/device must face.

In this 2nd version of our Special Issue, we invite the submission of research articles, communications and review articles, on the broad topic of cell–material and tissue–material interactions specifically investigated at nano-, meso- or microscale levels of application, for deepening knowledge on (a) the use of biomaterials in physiological and pathophysiological contexts, and (b) the basic structure–function relationships of biomaterials and biomedical devices (including scaffolds, surfaces and microfluidic devices, for advanced in vitro models) with cells and tissues.





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## Message from the Editorial Board

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