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Biomechanics and Mechanobiology at the Cell-Biomaterial Interface

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Deadline for manuscript
submissions:

closed (1 May 2021)

Message from the Guest Editors

Dear Colleagues,

Living tissues are characterized by a dynamic equilibrium between cells and the extracellular matrix (ECM), with cells actively synthesizing ECM, which in turn provides cells with distinctive biochemical and mechanical cues.

Unveiling the complexity of cell–ECM interplay will foster the design of next-generation biomaterials able to guide cell differentiation and tissue homeostasis, driving new advances in tissue engineering.

This Special Issue will provide readers with an overview on cell–biomaterial interaction, with a focus on biomechanical and mechanobiological aspects. Contributions will be selected at the convergence of materials science, biology, and bioengineering, based on their ability to envisage the future of biomaterials science.

Prof. Alberto Rainer
Dr. Francesco Basoli
Guest Editors



mdpi.com/si/26789

Special Issue



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Message from the Editor-in-Chief

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