Special Issue

Biomechanics and Mechanobiology at the Cell-Biomaterial Interface

Message from the Guest Editors

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.

Guest Editors

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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