

Special Issue

Advances in Mechanics of Biomaterials

Message from the Guest Editors

The mechanics of biomaterials are known to influence the prevention, diagnosis, prognosis, and treatment of various diseases and injuries. Mechanical cues regulate the cellular differentiation and adhesion, as well as the tissue remodeling and growth. This Special Issue focuses on the application of engineering principles relating to material science and biology to achieve a better understanding of biomaterials at different scales. Computational techniques and/or experimental characterizations of biological and replacement biomaterials at multiple scales are sought to quantify their structure-function relationships. Manuscripts which discuss the development of new prevention solutions, treatment methodologies, as well as new biomaterials such as functionally graded materials are also desired.

Guest Editors

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Deadline for manuscript submissions

closed (20 April 2024)



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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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