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Modelling, Investigating and Engineering Viscoelasticity in Biological Tissues and Hydrogels

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Deadline for manuscript submissions:
closed (20 July 2023)

Message from the Guest Editors

Dear Colleagues,

Cell viscoelastic mechanotransduction is a fascinating research topic which has relevant implications in the understanding of pathophysiological processes and in the design of tissue substitute or in vitro models.

Although cell response to stiffness has been widely investigated, the interpretation of results as a function of substrate viscoelastic properties is still a challenge.

In this context, the Special Issue 'Modelling, Investigating and Engineering Viscoelasticity in Biological Tissues and Hydrogels' is collecting research papers and review articles addressing these issues. In addition to mechanotransduction studies, submitted papers may focus on the investigation of viscoelastic properties of poorly characterised tissues or on the implementation of in silico models to predict material mechanical behaviour and/or cell response. The presentation of new strategies for the fabrication of biomimetic materials which may foster viscoelastic mechanotransduction studies are also welcome.

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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.

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