Special Issue

Biomechanics of Hollow Organs: Experimental Testing and Computational Modeling

Message from the Guest Editors

The characterization of hollow organs' mechanical behaviour plays a crucial role for a comprehensive analysis of their functionality and for the investigation of degenerative phenomena. Experimentations must be developed at both tissue and organ levels, leading to data about histo-morphometry and mechanical responses. Such information will provide the basis for developing and validating computational models. In turn, computational models will allow to broad experimental results to an extremely wider scenario, considering different organs conditions and loading situations. In this sense, mechanical investigations will provide mandatory information for defining effective procedures and devices for both diagnostics and surgery.

To achieve its goal, this Special Issue aims to build a collection of articles from different areas, proceeding from biomedical sciences and medicine to bioengineering, computational and experimental biomechanics, bio-mechatronics, and materials science.

Guest Editors

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Editor-in-Chief

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