

Special Issue

Mechanomedicine: Exploring Mechanobiology at the Intersection of Engineering and Biology

Message from the Guest Editor

This Special Issue seeks to showcase research that merges the fields of engineering and biology through the lens of mechanobiology. We aim to highlight studies that provide insights into critical biological processes and develop innovative bioengineering solutions. Contributors are encouraged to submit original research articles and comprehensive reviews that explore the mechanical aspects of biological systems from a molecular to an organ scale. This includes advances in microphysiological systems that mimic the pathophysiological context of cells, innovations in bioengineering that contribute to our understanding of disease pathogenesis and the application of mechanobiology findings to develop therapeutic strategies. The Special Issue targets an interdisciplinary audience of biologists, bioengineers and medical researchers, aiming to foster a collaborative dialogue that bridges theoretical knowledge with clinical and practical applications. We particularly welcome contributions that push the boundaries of how mechanical forces can influence and dictate biological function and pathology, thus opening new avenues for mechanobiological research in health and disease.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Biomedicines (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to *Biomedicines*, be it original research, review articles, or developing Special Issues of current key topics.

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