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Recent Developments and Applications in Tissue Mechanics and Tissue Engineering

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Tissue mechanics and tissue engineering are multidisciplinary and interconnected fields that are studied at multiple scales by integrating knowledge in biology, solid mechanics, fluid dynamics, finite element modeling, imaging, electronics, automation, and design. Experimental, computational, and combined approaches are often used to investigate the structure–function relationships in tissues and to understand how their mechanics and biological pathways are altered in injury, disease, or regeneration.

The objective of this Special Issue is to present recent methods for the investigation of tissue mechanics and tissue engineering or for combined research between the two fields.



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