

Special Issue

Musculoskeletal Disorders: Integrative Insights into Pathophysiology, Therapeutic Strategies, and Rehabilitation

Message from the Guest Editor

Musculoskeletal disorders (MSDs) remain among the leading causes of pain, disability, and loss of productivity worldwide, profoundly affecting individuals across their lifespan. This Special Issue aims to provide a comprehensive and interdisciplinary exploration of the current understanding and future directions in the pathophysiology, clinical management, and rehabilitation of musculoskeletal conditions.

Advancements in molecular biology, neuroimmunology, and tissue biomechanics have shed new light on the complex mechanisms underlying MSDs, ranging from inflammation-driven degeneration to mechanotransductive imbalances within connective and neuromuscular tissues. A central objective of this issue is to bridge the gap between basic science and clinical application, emphasizing how novel diagnostics, including high-resolution imaging and biomarker analysis, can inform more targeted therapeutic strategies.

Guest Editor

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