

Special Issue

Biomechanical Properties of Muscle and Tendon in Neurological Conditions

Message from the Guest Editor

We invite submissions for a Special Issue focused on the dynamic interaction between neural control of movement and the biomechanical properties of muscles and tendons. This complex feedback loop is shaped by the type and severity of inborn or acquired neural impairments, where changes in neural control can affect muscle and tendon properties, and vice versa. Additionally, the functional state of the muscle-tendon unit can influence both segmental and suprasegmental control mechanisms. We are seeking original research, theoretical perspectives, and comprehensive reviews that explore this bidirectional relationship. Papers may address the implications for motor control, rehabilitation strategies, and performance enhancement in both human and animal models. By investigating these interconnections, we aim to gain deeper insights into how neural impairments impact musculoskeletal function, as well as how understanding this relationship can inform therapeutic interventions and optimize performance. Contributions should provide valuable perspectives on advancing research in the fields of biomechanics, neurophysiology, and motor control.

Guest Editor

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Editor-in-Chief

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