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Muscle Atrophy: From Bench to Bedside 2.0

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Deadline for manuscript submissions: **31 August 2024**

Message from the Guest Editor

The loss of muscle mass is a common adaptation to some physiological situations, but also to many diseases, and is caused by an imbalance of both protein synthesis and protein degradation. Muscle loss contributes to frailty syndrome and is associated with an impaired quality of life and an increased risk of death, regardless of the causal disease. In addition, muscle loss also decreases the efficiency of treatments, such as chemotherapy in cancer patients. Fighting against muscle loss is thus a major goal for ameliorating patients' health. Compelling data have demonstrated that increased proteolysis is often the primary factor leading to muscle wasting. However, muscle atrophy is a highly coordinated process that implies the concomitant regulation of anabolic and catabolic pathways, which suggests that studies ought not to be restricted to to proteolysis. Therefore, a potential strategy to improve patients' condition is to minimize muscle wasting by regulating either proteolysis, protein synthesis or both.

This Special Issue will gather recent insights into the mechanisms driving muscle atrophy, welcoming both original and review articles.



mdpi.com/si/183096







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Message from the Editor-in-Chief

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