

## Special Issue

# Muscle Atrophy: From Bench to Bedside

### Message from the Guest Editor

Loss of muscle mass is a common adaptation to some physiological situations (e.g., bed rest) but also to many diseases (e.g. diabetes, cancer, heart failure, respiratory failure, renal failure, and sepsis), due to an imbalance of protein synthesis as well as protein degradation. Compelling data demonstrated that an increased proteolysis is often the main factor behind muscle wasting. However, muscle atrophy is a highly coordinated process that implies the concomitant regulation of anabolic and catabolic pathways, which suggests not restricting studies to proteolysis. Therefore, a potential strategy to improve patients' condition is to reduce muscle wasting by regulating either proteolysis, protein synthesis or both. **Keywords:** muscle atrophy; human diseases; proteolysis; protein synthesis; proteolytic systems system; therapeutic strategies

### Guest Editor

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