

Special Issue

Innovative Tools for Muscular Assessment

Message from the Guest Editor

Maintaining muscle mass (and strength/power production) is highly important in aging and/or disease. Associated with the desire to maintain muscle mass and function, the best method(s) for measuring available muscle function are still ill-defined. The purpose of the Special Issue is to examine the methods available for estimation of lean body mass that have clinical relevance and reasonable ease of application. Current approaches include body-imaging techniques (lean body mass, MRI, CT, dual-energy X-ray absorptiometry, muscle ultrasonography), bioelectric impedance analysis, anthropometric measurement, dynamometer measures, plus biochemical markers (potassium, creatine levels). In vivo muscle forces and power have been estimated via optimization theory and electromyography-to-force processing techniques. Validated screening tool(s), which could be standalone or a combination of new and existing technologies, are needed.

Guest Editor

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Deadline for manuscript submissions

30 April 2026



Bioengineering

an Open Access Journal
by MDPI

Impact Factor 3.7
CiteScore 5.3
Indexed in PubMed



mdpi.com/si/256272

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Editor-in-Chief

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