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Molecular Insights into Skeletal Muscle Homeostasis and Metabolism

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Message from the Guest Editors

Dear Colleagues,

Homeostasis is the ability of muscular tissue to maintain a stable and constant internal environment. Metabolism plays a crucial role in maintaining a good and correct functioning of the skeletal muscle. In pathological conditions, the homeostasis and metabolism of skeletal muscle are severely affected, and we believe that the papers in this Special Issue, addressing specific aspects of these processes, will help researchers to gather a better understanding of underlying mechanisms and signaling pathways, to highlight more appropriate therapeutic approaches to improve muscle physiology to counteract various myopathology and more.

Potential topics include:

- Niche satellite cells and cells communication in muscle homeostasis and metabolism dysregulations;
- Myofiber regeneration/repair in different pathological conditions;
- Muscle wasting disorders (myopathies, sarcopenia, cachexia, and others);
- Skeletal muscle inflammatory response;
- Exercise in skeletal muscle mass maintenance, role of myokines, and other aspects;
- Cytoplasmic calcium homeostasis dysregulation, mitochondrion response, and endoplasmic reticulum stress.