



Role of Mitochondria in Muscle Disorders

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Message from the Guest Editor

Dear Colleagues,

Skeletal muscle is a specialized tissue that exerts several functions based on its contractile properties, such as locomotion, facial expression, posture, and breathing, but may also be considered as a key endocrine and metabolic organ. Its importance is revealed by many diseases, including myasthenia, myopathies, muscular dystrophies, rhabdomyolysis, and inflammatory muscle disorders. The proper function of skeletal muscle relies on a developed differentiation process that leads to sarcomeric organization and developed sarcoplasmic reticulum and mitochondria networks. Mitochondria are key organelles that, besides their well-known role in cellular energy production, represent an integrative signaling platform that controls cell fate.

This Special Issue will highlight new findings on how mitochondria modulate cellular pathways that may change skeletal muscle function in pathophysiological conditions.





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