

Special Issue

Skeletal Muscle Function and Metabolism: Molecular Mechanisms and Treatment

Message from the Guest Editor

This Special Issue focuses on the most recent findings about molecular advances in skeletal muscle function. Despite the recent improvements in this field, important information is still missing about skeletal muscle metabolism. Mitochondria serve as the final targets of metabolism-related signalization pathways and their dynamic nature requires precise regulatory mechanisms. A final response could be modified by epigenetic mechanisms including the inhibition of protein translation by miRNA and other forms of gene expression regulation. Since skeletal muscle is involved in lipid and glucose homeostasis, it can serve as a target in the treatment of metabolic disorders. Additionally, understanding the molecular background of disorders primarily affecting skeletal muscle could improve therapeutic options in dystrophies, age-related muscle atrophy, and sarcopenia. Regarded together, further research needs to be performed to completely understand the molecular regulation of skeletal muscle function. Therefore, we kindly invite you to publish your results in this Special Issue of *IJMS* entitled “Skeletal Muscle Function and Metabolism: Molecular Mechanisms and Treatment”.

Guest Editor

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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