

Special Issue

Epigenetic and Transcriptional Control of Skeletal Muscle Homeostasis, Regeneration, and Diseases

Message from the Guest Editors

The homeostasis of skeletal muscle and metabolic adaptations are key for whole-body metabolism in healthy individuals. Both transcriptional and epigenetic mechanisms regulate muscle mass maintenance and metabolism in response to intrinsic or extrinsic signals that induce cell-type-specific reprogramming. Moreover, there is bidirectional crosstalk between cell metabolism and both transcription factors and chromatin dynamics. Although the roles of many transcription factors have been well characterized during myogenesis, less is known about their activities in mature muscle homeostasis in health and disease. Therefore, studies aimed at dissecting novel molecular mechanisms that participate in muscle adaptations are of primary relevance for the development of novel treatments and diagnostic tools. The main purpose of this Special Issue is to provide new experimental evidence on the role of transcriptional and epigenetic mechanisms at the basis of muscle homeostasis, and to understand their connection with the molecular pathways associated with muscle regeneration and disease.

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Deadline for manuscript submissions

closed (15 August 2023)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



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*International Journal of
Molecular Sciences*
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