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Epigenetic and Transcriptional Regulation in Muscle Cells

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Deadline for manuscript submissions:

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Message from the Guest Editors

Dear Colleagues,

We invite you to contribute to a Special Issue of the journal *Applied Sciences*, "Epigenetic and Transcriptional Regulation in Muscle Cells", which aims to present recent advancements of epigenome analysis in the field of skeletal muscle.

Skeletal muscle is essential for the movement of organisms. Loss of muscle mass and function due to aging, cachexia or genetic diseases decreases health-related quality of life. Today, interest in muscle research is increasing with the growth of the elderly population; moving forward, it is important to study muscles from various points of view, such as development, metabolism, physiology, and pathology. The epigenome provides a basis of transcription via chemical modification of DNA and histones and acts as a cellular memory, regulating a wide range of organism activity. Several applications have already been developed for epigenetic analysis, such as ChIP-seq, ATAC-seq, mass spectrometry, and epigenome editing. These tools are also applicable to skeletal muscles with appropriate adaptation to skeletal muscle traits.











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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network

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