

Special Issue

Muscle Proteins: Recent Advances and Prospects

Message from the Guest Editor

More than 100 years have passed since the discovery of myosin peptone which initiated research into muscle proteins. Many discoveries have been made since then in the field of the structural and molecular biology of striated and smooth muscles. Three types of filaments in muscle cells have been discovered, and giant proteins have been found that form a three-dimensional elastic matrix and are involved in the regulation of many processes of intracellular signaling in the norm and under pathological conditions. The amyloidogenic properties of muscle proteins have been determined; their involvement in the development of aging and age-related changes in muscle cells has been shown. This Special Issue aims to generalize and expand knowledge concerning striated and smooth muscle proteins.

Authors are invited to submit original research and review articles on the current state and progress in the field of muscle biology. Topics include, but are not limited to: Structure and functions of proteins of thick and thin filaments of striated and smooth muscles; Giant muscle proteins and their roles in the norm and in pathology; Molecular mechanisms of muscle disease.

Guest Editor

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closed (20 January 2025)



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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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