Special Issue

Molecular Research on Muscle Protein and Myopathies

Message from the Guest Editors

Understanding of the primary causes of hereditary myopathies is necessary for early diagnosis, prognosis of the disease and development of therapeutic approaches to restore contractile function. The purpose of this Special Issue is to summarize new data on the functional consequences of mutant toxic proteins for the sarcomere, to elucidate the relationship between mutations and disease phenotypes, and to identify targets for action in order to correct dysfunctions in various myopathies.
Topics include, but are not limited to:

- study of structural and functional consequences of amino acid substitutions and deletions in sarcomeric proteins (actin, myosin, tropomyosin, troponin, nebulin, cofilin) associated with various variants of myopathies;
- identification of impaired protein–protein interactions in the presence of mutations in sarcomeric proteins and analysis of further pathways of contractile dysfunction in cardiac and skeletal myopathies;
- identification of targets for the restoration of normal muscle function;
- search and testing of potential drugs for the treatment of muscle dysfunctions.

Guest Editors

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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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