Special Issue

Molecular Advances of Muscular Dystrophy

Message from the Guest Editor

Muscular Dystrophies (MDs) are defined as a group of inherited genetic conditions that gradually cause the muscles to weaken, leading to an increasing level of disability. New research is looking into ways of repairing the genetic mutations and damaged muscles associated with MD. And MDs have been associated with an increasing number of gene mutations involving structural proteins, signaling molecules and/or leading to aberrant mRNA processing or altered post-translational modifications. This special issue will give recent insights into cellular, genomic and proteomics mechanisms that are primarily and secondarily disrupted in MDs, focusing on omics technologies and signaling mechanisms causing muscle degeneration and regeneration, defects in muscle growth and the repair of skeletal. Keywords:

- muscular dystrophy
- duchenne muscular dystrophy
- skeletal muscle
- gene mutations
- epigenetics
- cellular signaling
- cell-based therapy
- metabolic dysfunction
- proteases
- gene therapy
- miRNAs
- pharmacological strategies

Guest Editor

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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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