

Special Issue

Molecular Insights into Pathogenesis and Therapy of Muscular Dystrophies

Message from the Guest Editor

Muscular dystrophies (MDs) are genetic disorders characterized by progressive muscle weakness and degeneration. This Special Issue focuses on the following topics:

The application of omics approaches to gain molecular insights into the pathogenesis of muscular dystrophy and exploring novel therapeutic strategies for intervention.

Gene-based therapies.

Small molecules and pharmacological therapies targeting inflammation, fibrosis, and disease-associated pathways.

Stem cell and regenerative therapies.

RNA-based therapies and epigenetic modifiers.

Secretome and extracellular vesicles investigations in order to target the communication networks and molecular signaling involved in MD pathogenesis.

Personalized medicine and translational perspectives emphasizing the importance of genetic profiling and precision medicine in tailoring treatment strategies. This Special Issue is assisted by our Topical Advisory Panel Member Dr. Martina Sandoná (Foundation Santa Lucia).

Guest Editor

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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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