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Cell Signaling and Omics in Muscular Dystrophies

Guest Editor:

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Message from the Guest Editor

Muscular dystrophies (MDs) are diseases predominantly affecting the skeletal muscle and include inherited muscle pathologies such as Duchenne Muscular Dystrophy, Becker Muscular Dystrophy, FacioScapulohumeral Muscular Dystrophy, Limb-Girdle Muscular Dystrophy, Myotonic Dystrophy and skeletal muscle laminopathies. 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. In the last few decades, many achievements have been made in clarifying the pathogenesis of these diseases. The development of omics technologies has provided a more far-reaching view of the biological mechanisms behind diseases and improved the development of adapted specific therapies. This issue will give recent insights into cellular, genomic and proteomic 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.

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Message from the Editor-in-Chief

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