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Molecular Basis of Neuromuscular Diseases

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Deadline for manuscript submissions:
closed (14 April 2022)

Message from the Guest Editor

Neuromuscular diseases (NMDs) are caused by impairment of the functioning of the muscles, with many different forms that vary in onset, severity, and prognosis. NMDs can be classified into hereditary or acquired disorders with sensory impairment, motor impairment, or both.

Muscular impairment, generally manifested as muscle weakness and fatigue, can be linked to motor neuron disease (such as amyotrophic lateral sclerosis), peripheral neuropathy, neuromuscular junction disorders (like myasthenia gravis), and myopathy. These alterations can be determined by pathologies of the muscle or by alterations of the nerves or of the neuro-muscular junctions. Furthermore, NMDs can be also age-related neurodegenerative disorders.

The Special Issue will focus on understanding the molecular basis and metabolic alterations underlie neuromuscular pathologies. Original manuscripts and reviews concerning with special attention of pathophysiology of muscular diseases, the prognostic and diagnostic biomarkers of NMDs, or the development of new synthetic or naturally originating molecules for the treatment of neuromuscular pathologies are very welcome.

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