life

an Open Access Journal by MDPI

IMPACT FACTOR 3.2

Indexed in: PubMed

CITESCORE 4.3

Duchenne Muscular Dystrophy: Mechanisms and Therapeutic Strategies

Guest Editor:

Dr. Gopal J. Babu
Department of Cell Biology and Molecular Medicine, New Jersey Medical School, Rutgers University, New Brunswick, NJ 07103, USA

Deadline for manuscript submissions:
closed (30 September 2021)

Message from the Guest Editor

Duchenne muscular dystrophy (DMD) is one of the most prevalent forms of muscular dystrophy. DMD is an X-linked recessive disorder, epidemiologically reported to affect 1 in 3600–6000 male live births. DMD is caused by mutations in the dystrophin gene resulting in a loss of functional dystrophin protein in skeletal and cardiac muscles. This leads to the degeneration of muscle fibers, necrosis, inflammation, fibrosis, and fatty replacement resulting in muscle weakness, respiratory and cardiac failure, and premature death. Despite these findings and several clinical trials, there is no curative treatment for this disease. Although the loss of dystrophin is the primary cause, several cellular and molecular factors including calcium handling proteins, myogenic factors, proteases, signaling molecules, and altered expressions of genes have been identified as key players in muscle pathogenesis and the development of dystrophic cardiomyopathy. This Special Issue will provide a general overview of cellular and molecular mechanisms associated with muscle wasting and the development of dystrophic cardiomyopathy and therapeutic strategies in treating DMD.

life

IMPACT FACTOR 3.2

Indexed in: PubMed

CITESCORE 4.3

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Lluís Ribas de Pouplana
Institute for Research in Biomedicine (IRB Barcelona), The Barcelona Institute of Science and Technology, 08028 Barcelona, Spain

Message from the Editor-in-Chief

Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, CAPlus / SciFinder, AGRIS, and other databases.
Journal Rank: JCR - Q1 (Biology) / CiteScore - Q1 (Paleontology)

Contact Us

Life Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/life
life@mdpi.com
𝕏@Life_MDPI