

Special Issue

Neuromuscular Disorders: Advances in Cellular and Molecular Understanding, Emerging Therapies, and Outcome Measures

Message from the Guest Editors

In recent years, our understanding of neuromuscular disorders has undergone a fundamental transformation. These conditions comprise a broad and heterogeneous group of diseases marked by primary damage to structures of the peripheral nervous system, including the anterior horn cells, peripheral nerves, neuromuscular junctions, and muscles. Advances in unraveling their underlying mechanisms have significantly enhanced patient care. Diseases once considered untreatable—such as spinal muscular atrophy—can now be effectively managed with innovative therapies.

This Special Issue aims to collect manuscripts discussing recent advances in neuromuscular research, spanning basic scientific discoveries to applications. We welcome both application and basic research contributions addressing motor neuron disorders (e.g., spinal muscular atrophy, amyotrophic lateral sclerosis), peripheral nerve disorders (including autoimmune conditions such as Guillain-Barré syndrome and chronic inflammatory demyelinating polyneuropathy, as well as hereditary neuropathies), and disorders of muscle and the neuromuscular junction (e.g., muscular dystrophies and myasthenia gravis).

Guest Editors

Dr. Ivo Bozovic

University Clinical Centre of Serbia-Neurology Clinic, Dr Subotic Street
6, 11000 Belgrade, Serbia

Dr. Bogdan Bjelica

Hannover Medical School, Hannover, Germany

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Cells
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
cells@mdpi.com

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About the Journal

Message from the Editorial Board

Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

Editors-in-Chief

Dr. Alexander E. Kalyuzhny

Dental Basic Sciences, University of Minnesota, 308 Harvard St. SE,
Minneapolis, MN 55455, USA

Prof. Dr. Cord Brakebusch

Biotech Research & Innovation Centre, The University of Copenhagen,
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manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.5 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).