

Special Issue

Amyotrophic Lateral Sclerosis: From Molecular Basis to Therapies

Message from the Guest Editor

Amyotrophic Lateral Sclerosis (ALS) is one of the most common neurodegenerative diseases, characterized by progressive paralysis and death, usually due to respiratory failure. Despite significant advancements in understanding ALS pathomechanisms over the past decades, its exact cause remains unknown, and no effective treatment is currently available. As a result, ALS continues to be a major focus of scientific research. This Special Issue aims to collect both original research and review articles exploring innovative pathomechanisms and potential therapeutic targets, such as: (1) Novel candidate genes and gene-specific therapeutic approaches (2) Epigenetic mechanisms in ALS pathogenesis (3) Innovative disease models for ALS research (4) Neuroinflammatory and immune system contributions to ALS progression (5) Mitochondrial dysfunction and oxidative stress as key pathogenic factors We welcome contributions that offer new insights into these topics, helping to advance our understanding of ALS and uncover potential therapeutic strategies.

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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