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Mechanisms Leading to Neurodegeneration in the ALS and FTD Spectrum

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Message from the Guest Editors

Amyotrophic lateral sclerosis (ALS) is the third most common neurodegenerative disorder, and frontotemporal dementia (FTD) is the fourth most common neurodegenerative disorder. Both diseases share common molecular mechanisms and are now considered to be part of the same disease spectrum ("ALS-FTD spectrum"). Most ALS and FTD patients are sporadic of unknown cause, whereas mendelian mutation can be found in 10–15% of them. The exact molecular paths leading to neurodegeneration in these diseases is not well known, albeit several mechanisms have been shown to be involved. As a consequence, no effective treatments have been found to date.

This Special Issue of *Biomedicines* aims to cover the mechanisms of neurodegeneration occurring in ALS and FTD from different perspectives, including but not limited to:

- Genetics and epigenetics;
- Neuroinflammation;
- Protein aggregation;
- Mitochondrial damage;
- Excitotoxicity;
- Novel mechanisms;
- Neurodegeneration biomarkers;
- Disease spread mechanisms;
- Therapeutical approaches to arrest neurodegeneration.

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Message from the Editor-in-Chief

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