

Special Issue

Molecular Advances and Perspectives in Multiple Sclerosis

Message from the Guest Editors

Multiple sclerosis is an auto-immune disease affecting the central nervous system that has both demyelinating and neurodegeneration components. Despite the availability of high efficacy treatments, the pathophysiology of the disease remains poorly understood and many patients still experience disability progression in the long term. In recent years, there have been many new insights into the triggers of the disease (with a focus on Epstein–Barr virus infection) and the drivers of chronic inflammation and degeneration (including iron accumulation, microglia and astrocyte activation and ectopic lymphoid follicle formation), which will shape our understanding of the disease and are already driving the development of novel therapeutic approaches. In addition, although there is evidence for remyelination in patients, strategies to promote it in patients are mostly lacking, probably due to our incomplete knowledge of its mechanisms. In this Special Issue, we will try to fill these knowledge gaps, publishing research addressing the molecular mechanisms underlying the different aspects of inflammation, degeneration and repair in multiple sclerosis.

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