

## Special Issue

# New Advances and Challenges in Multiple Sclerosis: Pathophysiology and Therapeutic Strategies

### Message from the Guest Editor

Multiple sclerosis (MS) is the most common neurological disease, being especially dramatic for debuting mainly in young adults and for not having a cure. The treatments address the immune component of the disease, are mostly effective in the relapsing-remitting MS variant, and are almost totally ineffective in the progressive forms of MS. Therefore, the search for molecular/cellular factors capable of differentiating at the pathophysiological level the intrinsic reasons for these differences, is of vital importance in the search for new treatments for people with MS. On the other hand, the existence of recovery phases in RRMS patients points to the existence of spontaneous self-correcting phenomena of the inflammatory episode that lead to neuro-repair of the damaged tissue. The aim of this Special Issue of *Biomedicines* is to provide an overview of the pathophysiological role of newer and older molecular mechanisms of MS together with the presentation of insights for the consecution of new therapeutic strategies. Moreover, it will focus on biomarkers to help in the accurate disease monitoring. Both original articles and reviews will be considered for publication in this Issue.

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### Guest Editor

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### Deadline for manuscript submissions

closed (30 June 2022)



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## About the Journal

### Message from the Editor-in-Chief

*Biomedicines* (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to *Biomedicines*, be it original research, review articles, or developing Special Issues of current key topics.

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### Editor-in-Chief

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