

Special Issue

The Role of Immune Cells in Multiple Sclerosis

Message from the Guest Editors

Multiple sclerosis (MS) is a complex chronic inflammatory demyelinating disease of the central nervous system (CNS). Past therapeutic interventions mainly focused on the depletion or blockade of lymphocytes. However, recent evidence obtained from new genetically modified animal models and high-dimensional single-cell technologies has indicated a much more complex picture of MS pathophysiology. These methodologies uncovered Th17 cells as the main pathogenic lymphocyte subset due to the release of the effector cytokine GM-CSF, which plays a critical role in the instruction of tissue-destructive monocytes. Further, dendritic cells, natural killer cells, microglia, and other immune cells have been shown to contribute to disease progression. Environmental parameters such as diet, fasting, and a deregulated circadian rhythm also have an effect on immune cell functions and indirectly influence the course of disease.

In this Special Issue, we would like to collect review articles that summarize the current knowledge of immunological components of MS. Our goal is to provide the reader with a wide range of immune cell activities and how these cells influence the disease course of MS.

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Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

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