

Special Issue

Novel Insights into Cellular and Molecular Mechanisms of Autoimmune Disease

Message from the Guest Editors

The cellular and molecular mechanisms underlying autoimmune diseases are complex and multifactorial, involving the dysregulation of various immune cell populations, genetic susceptibility, and environmental factors. Understanding these mechanisms is crucial for developing effective treatments and therapies for autoimmune diseases. Recent technological and scientific advancements have led to novel approaches in studies of the cellular and molecular mechanisms of autoimmune diseases such as single-cell transcriptomics, which enables the analysis of gene expression in individual cells. High-throughput screening technologies have also been employed to identify novel targets for drug development. These techniques enable the rapid screening of large libraries of compounds to identify molecules that can modulate specific cellular pathways involved in autoimmune diseases. The purpose of this Special Issue is to increase the depth of understanding pertinent to cellular and molecular mechanisms of autoimmune diseases, as well as to identify targets of novel therapy and possible side effects of immune blockage used in the treatment of autoimmune diseases.

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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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