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# Novel Insights into Cellular and Molecular Mechanisms of Autoimmune Disease

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## **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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## Message from the Editor-in-Chief

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