



## Immune Responses in Chronic Diseases, Crucial Molecular Mechanisms, and Microenvironmental Factors

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### Message from the Guest Editor

The clinical consequences of immune failure primarily include increased susceptibility to infections and reduced response to vaccination. However, malfunction of immune system reactivity is also a reason for higher susceptibility to chronic diseases such as malignant tumors and autoimmune and neurodegenerative diseases. The mechanisms that cause immune changes in chronic diseases are still poorly understood. Many detrimental changes have roots at the molecular level and include DNA damage, microenvironmental factors including epigenetic changes, as well as disturbed intercellular interactions. Such molecular changes have a multidirectional character, and those visible in populations of white blood cells directly affect initiation and progression of chronic diseases. This Special Issue will survey crucial molecular mechanisms and microenvironmental factors associated with immune responses in chronic diseases.





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