



Role of Gut Microbiota in Immune Tolerance and Vaccine Development

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Message from the Guest Editor

Immune tolerance refers to a state of active and highly regulated unresponsiveness of the immune system to self-antigens or a specific antigen that can induce an immune response in the body. It plays a crucial role in normal physiology, and deficiencies in tolerance can lead to autoimmune diseases.

In recent years, considerable progress has been made in immune tolerance research, particularly in the fields of immunotherapy, immunomodulation, and immune system regulation. However, challenges persist due to incomplete knowledge of the exact mechanisms, a lack of suitable research models, and limited access to clinical data, making it difficult to develop effective treatments for diverse immune tolerance-related disorders.

This Special Issue will specifically address (but is not limited to) the following two topics:

1. Cellular Aspects of Immune Tolerance in Health and Diseases: The Role of Immune Cell Subtypes and Their Crosstalk.
2. The Role of Commensal Microbiota in Immune Tolerance and Vaccines.

We welcome all types of articles, including original research, comprehensive and systematic reviews, brief reports, etc. We eagerly anticipate receiving your contributions.





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Message from the Editor-in-Chief

Vaccines (ISSN 2076-393X), founded in 2013, now has a firm history of publishing peer-reviewed, state-of-the-art research papers on vaccines and vaccination in the broadest sense. Areas covered include, but are not limited to, novel and emerging vaccine technologies, building on in-depth knowledge of what constitutes a protective immune response. These can be new vaccines for old diseases, or old vaccines for new diseases. Vaccines against cancer and autoimmune diseases explicitly are also within the scope of the journal. Because public opinion and even government policies towards vaccines and vaccination have changed, vaccine policy and public health issues are major concerns. Climate change will also have an impact on the spread of infectious diseases, and thus also on vaccine and vaccination policies worldwide.

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