Special Issue

Review Special Issue Series: T-cell Based Vaccine Development against Pathogen Infections

Message from the Guest Editor

Current COVID-19 vaccines are designed to induce neutralizing antibodies against SARSCoV-2, which wane over time and are usually evaded by highly infectious variants such as Omicron. SARS-CoV-2-specific T cells induced during infection or vaccination largely maintained their reactivity to viral variants, including Omicron, indicating T cell responses are critical for long-term protective immunity. Thus, the development of T-cell-based vaccines that are able to induce long-term memory T cells might be a reasonable and effective strategy to provide persistent protection against constantly mutating viruses, including SARS-CoV-2. This Special Issue will broadly cover the topics related to T-cell-based vaccines. The interests of this Special Issue include, but are not limited to: (1) dynamics and functionality of T cell response to viruses including SARS-CoV-2 (2) dominant T cell epitopes in various viruses such as SARS-CoV-2 (3) generation and maintenance of long-term memory T cells, and (4) animal models for evaluation of the immunogenicity and efficacy of T-cell-based vaccines designed for humans.

Guest Editor

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About the Journal

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.

Editor-in-Chief

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