

## Special Issue

# Tuberculosis Vaccine Research: Inducing Immune Memory and Regulation

### Message from the Guest Editor

The purpose of tuberculosis (TB) vaccine immunization is to induce long-term immunological memory that mediates protection from infection. Memory T cells would be expected to be an important correlate of immune protection against TB. It is known that following antigen stimulation, T cells are activated and develop into different subsets including effector T cells (TEFF), effector memory T cells, central memory T cells and tissue-resident memory T cells (TRM), etc. TEM, TCM and lung TRM were reported to mediate immune protection against *M. tuberculosis* respiratory infection in tests conducted by different labs. However, their role in vaccine-mediated immune protection is still unclear. More studies are needed to investigate the correlation between memory T cells and protection, especially in the human population. Moreover, there are many factors, including antigens and adjuvants, that play a role in the development of immune memory. The vaccination pathway and schedule also affect the development of immune memory. All these factors need to be explored to improve the protective effects of vaccine immunization for tuberculosis.

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### Guest Editor

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### Deadline for manuscript submissions

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## Vaccines

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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.

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### Editor-in-Chief

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