



Immune Response and Vaccination Effectiveness against *Mycobacterium tuberculosis* Infection

Guest Editor:

Prof. Dr. Pere-Joan Cardona

Microbiology Department,
Hospital Universitari Germans
Trias i Pujol, Universitat
Autònoma de Barcelona,
Badalona, Catalonia, Spain

Deadline for manuscript
submissions:

closed (30 September 2023)

Message from the Guest Editor

Dear Colleagues,

Tuberculosis is still a major challenge for both humans and animals. BCG, the only vaccine that is currently available on the market, was designed 100 years ago. The lack of correlates of protection is one of the major hallmarks that hamper any quick and feasible development. There is a need for a better understanding of TB natural history in order to design reliable biomarkers. This should include not only ad hoc clinical trials, taking into account the One Health approach, but also information obtained from contact studies, including WGS from *M. tuberculosis* strains for better surveillance, to evaluate natural mechanisms of protection against active TB. On the other hand, new candidates both for human and animal protection have to fill the pipeline, so there is a need for new candidates, better experimental models for testing them, and the design of new tools, including in silico ones, to optimize clinical trials.

Prof. Dr. Pere-Joan Cardona
Guest Editor





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Editor-in-Chief

Prof. Dr. Ralph A. Tripp

Department of Infectious
Diseases, College of Veterinary
Medicine, University of Georgia,
Athens, GA 30602-7387, USA

Message from the Editor-in-Chief

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Contact Us

Vaccines
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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