Special Issue

Vaccines Against Bacterial Pathogens: Current Insights

Message from the Guest Editors

Bacterial vaccinology is a dynamic, interdisciplinary field focused on the development, evaluation, and implementation of vaccines to prevent bacterial infections. It encompasses multiple areas of research, including bacterial pathogenesis, novel animal models, host immune responses, and molecular mechanisms underlying infection and immunity. Research in bacterial vaccinology can include a range of approaches, from traditional methods such as inactivated or attenuated whole-cell vaccines to advanced techniques like recombinant protein subunits, conjugate vaccines, and novel adjuvants. The field also integrates genomics, bioinformatics, and systems biology to identify new vaccine targets and optimize vaccine design. Bacterial vaccinology plays a crucial role in global public health as well as in the biodefense fields of study by reducing the threat of bacterial diseases. Vaccination strategies continue to evolve in response to the emergence of antibiotic resistance and new bacterial threats. Manuscripts for this issue may present original research, reviews, or commentary in these areas.

Guest Editors

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Deadline for manuscript submissions

28 February 2027

Vaccines

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 7.7
Indexed in PubMed

mdpi.com/si/279247

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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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.1 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).