Special Issue

Viral Vector-Based and Other Vaccine Strategies for Poultry and Livestock

Message from the Guest Editor

Developing novel vaccine strategies is vital for controlling infectious diseases in poultry and livestock, ensuring food security, and supporting the agricultural economy. Despite significant advancements, challenges persist in optimizing vaccine platforms, improving safety, and expanding applications across species. Viral vector platforms and other non-classical vaccine strategies, have been explored and are among the most promising approaches for safely delivering genes and antigens. Their ability to induce robust immune responses, large-scale production, and adaptability to diverse pathogens make them valuable tools in veterinary medicine. This Special Issue welcomes articles advancing vaccine technologies, immune response mechanisms, and practical veterinary applications. Topics include the development and optimization of viral vector-based vaccines, classical vaccine platforms, alternative vaccine strategies, genetic engineering approaches, delivery methods, production techniques, immune responses, laboratory trials, and field applications. By gathering new studies from experts this Special Issue aims to foster scientific progress and practical advancements in the field.

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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JCR - Q2 (Medicine, Research and Experimental) / CiteScore - Q1 (Infectious Diseases)

Rapid Publication:

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).

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