

## Special Issue

# Vaccines Based on Dendritic Cells: Breaking Barriers to New Immune Response Approach

### Message from the Guest Editor

Dendritic cells (DCs) are versatile cells that bridge the gap between innate and adaptive immune responses. They are potent antigen-presenting cells that control both T cell immunity and tolerance. DCs are often downregulated in diseases such as cancer, where they are called tolerogenic DCs and have a crucial role in inducing peripheral tolerance. Recent studies on vaccines based on nucleic acids such as DNA or mRNA have shown remarkable results in treating diseases such as COVID-19 and multiple solid tumors. We invite contributions of original reports, observations, or reviews to highlight (i) their role in preventing relapses in cancer, (ii) the metabolic signaling pathway target, (iii) the ability to cross the blood–brain barrier in pathological processes or as a vaccination strategy, and (iv) recent advances in novel therapeutic vaccines based on dendritic cells.

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### Guest Editor

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### Deadline for manuscript submissions

closed (31 May 2026)



## 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

Prof. Dr. Ger Rijkers

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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).