Special Issue

Immunity at the Gate of Entrance; Vaccines against Respiratory Viruses such as Influenza and RSV

Message from the Guest Editor

Most vaccines induce systemic immunity through intramuscular administration. This route of vaccination disregards a very potent part of the immune system—local adaptive immunity. There is a limited amount of locally administered respiratory vaccines are available. Challenges include adjuvation, formulation, and induction of long-lasting immunity. For both RSV and influenza immunity, longevity is a holy grail. Therefore, research that provides insight into local immune parameters that correlate with protection against respiratory viruses or that are shown to be long-lasting is welcomed. Immune induction may be through vaccination, using adjuvants and formulation techniques to steer the immune response or by immune transfer techniques, etc. when this leads to a better understanding of potent vaccine targets. Combining insights and strategies developed for different respiratory viruses into one Special Issue encourages cross-pollination of the different research fields and would advance the development of locally administered respiratory vaccines on the whole.

Guest Editor

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Deadline for manuscript submissions

closed (31 October 2020)

Vaccines

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 7.7
Indexed in PubMed

mdpi.com/si/40966

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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 17.5 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the first half of 2026).

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