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Respiratory Viruses and Antiviral Immunity

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closed (31 January 2026)

Message from the Guest Editors

Dear Colleagues,

The respiratory tract is a major portal of entry for viruses into the body. Various strategies exist to control respiratory virus replication and to limit immune-mediated inflammation and tissue injury. This Special Issue is interested in the contributions of physical and chemical barriers to infection and the various innate immune mechanisms and cell types mediating host responses to virus infections—both innate and adaptive immune responses. Particularly, the features of interest include the protective mechanisms and their pathophysiological implications in viral respiratory infections. We are pleased to invite you to contribute to this Special Issue, which aims to describe, interpret, and analyze the role of the antiviral response in various aspects: as a protective barrier, a mechanism of containment or elimination, and as a basis for the pathophysiology of viral respiratory infections. Within this framework, particular interest is given to questions such as what contributes to viral reinfections and the antiviral response leading to disease and damage and how this understanding can be used to develop therapeutic strategies that include vaccines.

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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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