



vaccines



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Host Response and Immunity to Influenza A Virus Infection

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Deadline for manuscript
submissions:

closed (30 April 2024)

Message from the Guest Editors

Respiratory infectious diseases, especially influenza viruses and coronaviruses, pose a substantial risk to humans due to their rapid transmission, the lack of effective universal vaccines, and the diversity in host immune responses. Influenza A viruses are highly contagious in birds, animals and humans, and frequently spillover to cause pandemics in human populations. Understanding the influenza viruses' ability to escape the immune system; identifying host factors impacting immunity; deepening our knowledge on immune responses, immune diversity, biological sex differences impacting virus pathogenesis and immune response; and developing mAbs that provide broad protection against influenza viruses are critically important to prevent influenza virus pandemics and epidemics.

This Research Topic aims to represent research studies on influenza virus pathogenesis, virus–host interactions, genetic diversity and evolution of influenza A viruses, intra-host dynamics, antiviral countermeasures and immune responses, vaccine effectiveness, variations in individual responsiveness to vaccination, and vaccination strategies.



mdpi.com/si/155251

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Message from the Editor-in-Chief

Vaccines (ISSN 2076-393X) has had a 6-year history of publishing peer-reviewed state of the art research that advances the knowledge of immunology in human disease protection. Immunotherapeutics, prophylactic vaccines, immunomodulators, adjuvants and the global differences in regulatory affairs are some of the highlights of the research published that have shaped global health. Our open access policy allows all researchers and interested parties to immediately scrutinize the rigorous evidence our publications have to offer. We are proud to present the work and perspectives of many to contribute to future decisions concerning human health.

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