



Immune Response of the Host and Vaccine Development

Guest Editors:

Dr. Ewa Długośz

Division of Parasitology and
Invasive Diseases, Department of
Preclinical Sciences, Institute of
Veterinary Medicine, Warsaw
University of Life Sciences
(SGGW), Ciszewskiego 8, 02-786
Warsaw, Poland

Dr. Agnieszka Wesołowska

Museum and Institute of Zoology,
Polish Academy of Sciences,
Warsaw, Poland

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Message from the Guest Editors

Dear Colleagues,

Vaccines are the key element to efficiently control infectious diseases. They offer what other treatments cannot accomplish—protection. Recently, during the COVID-19 pandemic, thanks to the enormous commitment of researchers from around the world, tremendous progress has been achieved in vaccine development, especially in the field of virus-vectored and mRNA vaccines. Nonetheless, beyond the pandemic, various infectious diseases that we have been aware of for a long time remain dangerous. Successful immunoprophylactic strategies directed against multiple viruses, bacteria, and parasites are still desperately needed. Those pathogens elicit different immune mechanisms in their hosts. Immunization efficacy strictly depends on the proper activation of the host immune system, and therefore, these two aspects of vaccine research should be investigated in parallel. We hope that this Special Issue will offer new insights into the field and help to combine the knowledge on the immune response of the host with vaccine development.





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Editor-in-Chief

Prof. Dr. Lawrence S. Young

Warwick Medical School,
University of Warwick, Coventry
CV4 7AL, UK

Message from the Editor-in-Chief

The worldwide impact of infectious disease is incalculable. The consequences for human health in terms of morbidity and mortality are obvious and vast but, when infections of animals and plants are also taken into account, it is hard to imagine any other disease that has such a significant impact on our lives—on healthcare systems, on agriculture and on world economics. *Pathogens* is proud to continue to serve the international community by publishing high quality studies that further our understanding of infection and have meaningful consequences for disease intervention.

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Pathogens Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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