Special Issue

Control of Viral Infections: Pathogenesis, Immunity, Vaccines and Antivirals

Message from the Guest Editor

Viruses are extreme intracellular parasites that establish complex relationships with their hosts. Thus, co-evolution exists between the pathogenic mechanisms that viruses exert on the host and the consequent response of the immune system that develops to combat them. The control of viruses is based, among other aspects, on prevention and treatment; therefore, this Special Issue aims to gather new knowledge on the mechanisms of pathogenesis and antiviral immunity, together with novel approaches to the development of vaccines and antiviral therapies. New technologies, including cutting-edge technologies such as omics, are enabling more rational and rapid approaches and advancements in the development of effective vaccines and antivirals, as well as in the understanding of these pathogens, and should be the starting point of current research. Thus, studies describing new knowledge of these pathogens, such as mechanisms of virulence and viral escape from immune response, pathogenesis, and host immunity; the development of novel and effective vaccines; and new antiviral treatments are welcome.

Guest Editor

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Deadline for manuscript submissions

closed (29 February 2024)

Microorganisms

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed

mdpi.com/si/134881

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"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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