Special Issue

The Host Response to Animal Virus Infection

Message from the Guest Editor

Virus infection has caused tremendous amounts of economic losses to the animal husbandry industry worldwide, especially for respiratory virus, coronavirus, influenza virus, and newly emerging viral pathogens. The viruses have evolved to equip various strategies to disrupt the host immune response and provide favorable conditions for survival. The limited therapeutic options and vaccines currently available also impose an additional, significant burden on disease control and prevention. A significant amount of information is necessary regarding virus–host interactions during infection. Efficient viral strategies for modulations of cellular processes include innate immunity, apoptosis, non-coding RNAs, inflammatory cytokines, and other cellular pathways. There is an urgent need for further basic research on the various biological stages of the virus within the host immune response that ensues in order to recognize potential therapeutic targets and design efficient antiviral drugs and vaccines. This Special Issue of *Microorganisms* aspires to provide further insight into the challenges posed by animal virus infections in host immune response, pathogenesis, and therapy.

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Message from the Editor-in-Chief

"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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