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Pathogenesis and Microbiology of Porcine RNA Viruses

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Deadline for manuscript submissions:

closed (1 July 2023)

Message from the Guest Editors

Dear Colleagues,

Porcine RNA viruses, such as porcine Reproductive and Respiratory syndrome virus (PRRSV), classical swine fever virus (CSFV), porcine epidemic diarrhea virus (PEDV), cause global economic loss of at least billion dollars every year. Therefore, disease control is essential. The porcine industry now faces a dilemma as there are still some widely existing or emerging pathogens that lack effective vaccines or methods to prevent the infection, especially RNA viruses which have high a mutation rate and usually result in the partial or poor cross-reactivity or even immune escape from available vaccines. Therefore, a better understanding of pathogenesis and microbiology of these porcine RNA viruses might provide novel insights or strategies for vaccine or therapeutic developments, and foundational knowledge for investigating emerging diseases.

This Special Issue aims to collect a series of scientific articles focused on epidemiological diversity, host–virus interaction, host immune response against viruses, molecular biology of viruses, and modelling and vaccine development. In this Special Issue, original research articles and reviews are welcome.



mdpi.com/si/130587

Special Issue



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Message from the Editor-in-Chief

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