Special Issue

Emerging Trends in Viral Pathogens of Swine: Insights from Surveillance, Persistence, and Control Strategies

Message from the Guest Editors

The swine industry consistently encounters challenges from viral pathogens, which can greatly affect animal health and productivity. Moreover, emerging and re-emerging swine diseases pose a continuous threat to human health. A deeper understanding of viral factors, their interactions with host cells, and the host immune response is essential for uncovering disease mechanisms, including how viruses adapt to new host species.

Additionally, robust disease surveillance, along with the development of efficient vaccines and antiviral therapies play a crucial role in early detection and prevention. This topic invites original research that advances knowledge in swine viral diseases, molecular virology, viral evolution, innovative molecular and immunological diagnostic tools, and novel platforms for vaccine development to control swine viral infections and prevent their spillover to other animals, including humans.

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Message from the Editor-in-Chief

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