

Special Issue

Bovine Influenza

Message from the Guest Editors

In March 2024, an in-depth clinical investigation of causative agents associated with a mystery disease complex affecting dairy cows in the Texas panhandle region of United States led to the unexpected identification of a highly pathogenic avian influenza (HPAI) H5N1 virus in diseased dairy cows with a significant drop in milk production. The sudden emergence of the H5N1 virus in dairy cows provides convincing evidence that cattle are also a susceptible host to the influenza A virus. This new discovery also raises many important questions, such as how the bird influenza virus jumps to dairy cows with high levels of the virus detected in raw milk, and how to protect cattle herds as well as people who work for this important industry. This Special Issue will feature the most recent research and findings on influenza viruses in cattle, including epidemiology and public health, tropism, adaptation to bovines and cross-species transmission, infection biology, evolution, virus–host interactions, immune responses, and vaccine development. In addition, this SI also welcome topics on influenza viruses in other ruminating mammals, including goats, sheep, and deer.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Viruses (ISSN 1999-4915) is an open access journal which provides an advanced forum for studies of viruses. It publishes reviews, regular research papers, communications, conference reports and short notes. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. The full experimental details must be provided so that the results can be reproduced. We also encourage the publication of timely reviews and commentaries on topics of interest to the virology community and feature highlights from the virology literature in the 'News and Views' section.

Electronic files or software regarding the full details of the calculation and experimental procedure, if unable to be published in a normal way, can be deposited as supplementary material.

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Dr. Eric O. Freed

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