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## Animal Coronavirus Pathogenesis and Immunity

Guest Editor:

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Deadline for manuscript  
submissions:

**closed (31 May 2022)**

### Message from the Guest Editor

Coronaviruses, a large family of positive RNA viruses, have a broader host spectrum and cause serious health threats to human and animals. Prior to the emergence of SARS-CoV, CoVs have been known in animals for several decades. Except the economic importance in the veterinary fields, the existence of coronavirus quasispecies and the high rate of mutation and recombination foster the emergence of new CoV strains with altered cell tropisms and host specificity, which raises the specter of potential future outbreaks of zoonotic SARS-CoV-like diseases in humans. An understanding of animal CoV infections in the natural host is critical to provide a One Health perspective and insights on common and distinctive disease mechanisms related to human CoV infection.

In this special issue of *Viruses*, we invite the submission of original research papers and review articles spanning the entire spectrum of animal coronaviruses including molecular mechanisms mediating virus virulence, molecular basis of virus replication, virus pathogenesis, host immune response involved in protection against infection, development of different types of vaccines.

Prof. Dr. Pinghuang Liu  
*Guest Editor*



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# Special Issue



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## 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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