



## Host-Pathogen Interactions during Pathogenic Human Coronavirus Infection: 2nd Edition

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### Message from the Guest Editor

Dear Colleagues,

Severe acute respiratory syndrome coronavirus 2 is an enveloped virus responsible for the current never-ending pandemic. SARS-CoV-2 spreads from human to human through aerosol and respiratory droplet-based virus transmission. SARS-CoV-2 contains a non-segmented, positive-sense, single-strand RNA genome. With this genome, two-thirds of viral RNA is translated into large polyproteins, and a discontinuous transcription process transcribes the remainder of the viral genome into a nested set of subgenomic mRNAs, thus making it unique. Respiratory viruses appear to be diverse in cellular tropism, resulting in differences in virus-induced pathobiology, e.g., respiratory syncytial virus causes bronchiolitis, but SARS-CoV-2 primarily causes pneumonia.

This Special Issue will cover a broad understanding of SARS-CoV-2 infection, including cell tropism, strain and variants, pathophysiology, ARDS, vaccine and therapeutics, vaccine injury, treatment, animal models, viral protein characterization, genome, immune response, cytoskeletal signaling, and the convalescent stage of SARS-CoV-2 infection.





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## Editor-in-Chief

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## Message from the Editor-in-Chief

The worldwide impact of infectious disease is incalculable. The consequences for human health in terms of morbidity and mortality are obvious and vast but, when infections of animals and plants are also taken into account, it is hard to imagine any other disease that has such a significant impact on our lives—on healthcare systems, on agriculture and on world economics. *Pathogens* is proud to continue to serve the international community by publishing high quality studies that further our understanding of infection and have meaningful consequences for disease intervention.

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