### **Special Issue**

## Innovative Models for SARS-CoV-2 Pathogenesis

#### Message from the Guest Editor

We are great pleasure to invite researchers to contribute to our Special Issue. The aim of this Special Issue is to provide readers with cutting-edge insights into the mechanisms of SARS-CoV-2 infection while highlighting innovative experimental models that advance our understanding of viral pathogenesis. SARS-CoV-2 has posed unprecedented challenges to global health since 2019. Despite remarkable progress in vaccine development and therapeutic interventions, the complexity of SARS-CoV-2 pathogenesis continues to demand rigorous investigation. The virus displays unique interactions with the host, evading defense mechanisms and inducing a broad spectrum of clinical manifestations. Advances in cellular systems. organoids, and engineered tissue models have provided invaluable platforms to study viral entry, replication, and host-pathogen interactions. In parallel, animal models (from murine systems to non-human primates) have shed light on disease dynamics, immune dysregulation, and therapeutic efficacy in vivo. These approaches not only enhance our knowledge of SARS-CoV-2 biology but also lay the foundation for preparedness against future coronavirus outbreaks.

#### **Guest Editor**

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#### Deadline for manuscript submissions

28 February 2026



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#### Message from the Editor-in-Chief

#### Editor-in-Chief

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