

## 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.

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### Guest Editor

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### Deadline for manuscript submissions

30 September 2026



## Current Issues in Molecular Biology

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## About the Journal

### Message from the Editor-in-Chief

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#### Editor-in-Chief

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