



viruses



an Open Access Journal by MDPI

De Novo Drug Design for Emerging and Reemerging Viruses

Guest Editors:

Prof. Dr. Ke Xu

State Key Laboratory of Virology,
College of Life Sciences, Wuhan
University, Wuhan, China

Prof. Dr. Yu Chen

State Key Laboratory of Virology,
College of Life Sciences, Wuhan
University, Wuhan 430072, China

Deadline for manuscript
submissions:

closed (31 December 2022)

Message from the Guest Editors

Dear Colleagues

For emerging and re-emerging viruses that are zoonotic in origin, de novo drug design targeting viral proteins and viral life cycles provides an efficient approach to inhibit virus replication and therefore cure the disease. A greater understanding of the basic virology of these viruses, including virus entry, cellular receptors, virus–cell fusion, viral RNA or DNA synthesis and duplication, and virus assembly and release, has resulted in many successful antiviral drugs in the last 20 years.

This Special Issue is designed to provide an up-to-date review of the latest progress and technologies in de novo drug design (such drugs can be small molecular, peptides, antibodies, etc.) for emerging and re-emerging viruses targeting viral or host proteins based on their protein structures or their unique functions in the viral life cycle.

Prof. Dr. Ke Xu
Prof. Dr. Yu Chen
Guest Editors



mdpi.com/si/88363

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Dr. Eric O. Freed

Director, HIV Dynamics and Replication Program, Center for Cancer Research, National Cancer Institute, Frederick, MD 21702-1201, USA

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.

Author Benefits

Open Access: free for readers, with **article processing charges (APC)** paid by authors or their institutions.

High Visibility: indexed within **Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Embase, PubAg, AGRIS, and other databases.**

Journal Rank: JCR - Q2 (*Virology*) / CiteScore - Q1 (Infectious Diseases)

Contact Us

Viruses Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/viruses
viruses@mdpi.com
[X@VirusesMDPI](https://twitter.com/VirusesMDPI)