



Recombination as An Evolutionary Force in Animal Viruses 2022

Guest Editor:

Dr. Joana Abrantes

1. Research Centre in Biodiversity and Genetic Resources (CIBIO), Research Network in Biodiversity and Evolutionary Biology (InBIO), University of Porto, Porto, Portugal
2. Department of Biology, Faculty of Sciences, University of Porto, Porto, Portugal

Deadline for manuscript submissions:

closed (31 December 2022)

Message from the Guest Editor

Recombination has long been recognized as an important driver of evolution in viruses through the rapid creation of genetic diversity, particularly in those with RNA genomes. Such diversity is achieved through a non-reciprocal combination of genomic segments from at least two viruses that co-infect the same host cell. The new genomic architecture of the resulting recombinant virus can positively contribute to viral fitness and can successfully adapt to new environments and hosts. Indeed, recombination is frequently associated with the emergence of new viruses and outbreaks, expansion of the host range and species jump, changes in virulence and pathogenesis, alterations of tissue tropism, and the evasion of host immunity and antiviral resistance.

This Special Issue of *Viruses* aims to gather a series of articles—original research and reviews—on recombination in RNA and DNA animal viruses, with an emphasis on recombination mechanisms, the evolutionary aspects of recombination, and recombination as a driver of virus emergence and species jump. Novel bioinformatic approaches to the detection and characterization of recombination events in animal viruses are also welcome.





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)