Special Issue

Recombination as An Evolutionary Force in Animal Viruses 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.

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)

Viruses

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 7.7
Indexed in PubMed

mdpi.com/si/110796

Viruses
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
viruses@mdpi.com

mdpi.com/journal/viruses

Viruses

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 7.7
Indexed in PubMed

mdpi.com/journal/viruses

MDPI

About the Journal

Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Viruses* (ISSN 1999-4915). *Viruses* is published in open access format—research articles, reviews and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited free access to the content as soon as it is published. As an open access journal, *Viruses* is supported by the authors or their institutes by payment of article processing charges (APC) for accepted papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Dr. Eric O. Freed
HIV Dynamics and Replication Program, Center for Cancer Research, National Cancer Institute, Frederick, MD 21702-1201, USA

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Embase, PubAg, and other databases.

Journal Rank:

JCR - Q2 (Virology) / CiteScore - Q1 (Virology/Infectious Diseases)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.2 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the second half of 2025).