



The Advanced Research on Porcine Circovirus

Guest Editors:

Dr. Sang-ho Cha

Viral Disease Division, Animal and Plant Quarantine Agency, Gimcheon, Korea
PRRS research Laboratory, Viral Diseases Division, Animal and Plant Quarantine Agency, Gimcheon 39660, Korea

Dr. Changhoon Park

Department of Microbiology and Immunology, Eulji University School of Medicine, Daejeon, Korea

Deadline for manuscript submissions:

closed (30 June 2022)

Message from the Guest Editors

Porcine circovirus (PCV) consists of four genotypes (PCV1-4) with different pathological and epidemiological features. Among the genotypes, porcine circovirus type 2 (PCV2) has been one of the most devastating pathogens in the swine industry over the last few decades, being considered the only PCV genotype to cause clinical symptoms of pigs like PMWS, PDNS, and PRDC. Recent reports show that the novel genotypes (PCV3 and PCV4) emerged from unknown sources and widely spread to swine farms, which the swine industry needs to further investigate for economic loss. Due to the diverse genetic difference (subtypes) among genotypes plus incomplete neutralizing activity to new subtypes, there has been concern regarding the prevention of PCV-associated diseases by current vaccination. Current PCV2 vaccines are effective only for reduction of clinical problem and viral load in host.

For this Special Issue, we will focus on general topics covering the emergence and distribution of novel PCV subtypes or genotypes and their pathogenesis. Any kind of scientific reports on this area will be reviewed for publication.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Hinh Ly

Department of Veterinary &
Biomedical Sciences, University
of Minnesota, Twin Cities, MN,
USA

Message from the Editor-in-Chief

The worldwide impact of infectious disease is incalculable. The consequences for human health in terms of morbidity and mortality are obvious and vast but, when infections of animals and plants are also taken into account, it is hard to imagine any other disease that has such a significant impact on our lives—on healthcare systems, on agriculture and on world economics. *Pathogens* is proud to continue to serve the international community by publishing high quality studies that further our understanding of infection and have meaningful consequences for disease intervention.

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, PMC, Embase, PubAg, CaPlus / SciFinder, AGRIS, and other databases.

Journal Rank: JCR - Q2 (*Microbiology*) / CiteScore - Q2 (*General Immunology and Microbiology*)

Contact Us

Pathogens Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/pathogens
pathogens@mdpi.com
[X@Pathogens_MDPI](https://twitter.com/Pathogens_MDPI)