

Special Issue

The Advanced Research on Porcine Circovirus

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.

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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.

Editor-in-Chief

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