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Animal Viral Evolution

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Deadline for manuscript submissions:
closed (31 May 2023)

Message from the Guest Editors

Natural selection plays a critical role in shaping the evolutionary dynamics of DNA and RNA viral populations. Multiple mechanisms including positive and negative selection, recombination, selection relaxation, codon and dinucleotide usage among others represent some of the mechanisms promoting the adaptation of these populations. In this context, an understanding of the different evolutionary dynamic signatures of these populations is critical component to control viral diseases. Animal populations are subject to infection with a variety of viral agents. Currently, animal diseases represent a real threat to the worldwide economy. Zoonotic diseases can also have significant public health implications. With the ever-evolving evolution of viral agents within human populations, there is a risk for zooanthroponotic transmission events in animal populations, promoting the potential adaptation of human pathogens in animal populations, a situation that might complicate the control of these pathogens.

In this special issue, we are inviting you to send contributions concerning any aspect related to the evolution of DNA and RNA viruses with the potential to affect animal populations.

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Message from the Editor-in-Chief

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