



Molecular Mechanism of the Host Range and Virulence of Influenza Viruses

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Message from the Guest Editor

Dear Colleagues,

During the past several decades, avian influenza viruses have become endemic among poultry and wild birds across the globe. It is striking that avian influenza virus continuously crosses the species barrier to infect humans and mammals, posing serious public health issues. To achieve cross-species transmission (known as “host jump”), influenza viruses must change their tropism, evolving rapidly to target new host species, which influences the phenotype of influenza virus in different species. A well-known mammalian adaptive mutation of E627K and A588V in PB2 protein has been reported. However, other molecular bases of influenza virus are also critical when it comes to influencing the adaptation of influenza virus in birds and mammals. Therefore, understanding the new molecular basis of host range and virulence of influenza virus is urgently needed.

For this Special Issue on influenza viruses entitled “Molecular Mechanism of the Host Range and Virulence of Influenza Viruses”, we invite you to submit original research, reviews, and perspectives focusing on the molecular mechanisms of influenza viruses.





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