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Emerging Diseases/Viruses Prevention: Control, Surveillance, and One Health

Edited by: Yannick Simonin

Zoonoses represent up to 60% of infectious diseases and 75% of new diseases in humans. They can cause considerable economic losses each year, as recently illustrated by the COVID-19 pandemic. Several factors, such as intensive agricultural and livestock practices, human population growth, and international travel, are known to contribute to the emergence of zoonotic diseases. This Special Issue will cover the topic of One Health and its application in the prevention and control of emerging diseases. The One Health concept recognizes that the health of humans, animals, vectors, and their ecosystems are closely interconnected. To better understand and respond to zoonotic and emerging diseases, there is a need for coordinated, collaborative, multidisciplinary, and cross-sectoral approaches including human health, veterinary health, and environmental health.

In this Special Issue, we invited colleagues to submit original research articles and scientific reviews to assemble a collection of papers highlighting advancements in our understanding of all aspects related to the surveillance and control of zoonotic disease, including (but not limited to) 1) the development of new diagnostic tools, 2) outbreak investigation and surveillance program for emerging pathogens (including One Health approaches), and 3) understanding of the mechanisms of pathogen emergence.

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