



The Role of Animals in Emerging Viral Diseases

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The Role of Animals in Emerging Viral Diseases presents what is currently known about the role of animals in the emergence or re-emergence of viruses including HIV-AIDS, SARS, Ebola, avian flu, swine flu, and rabies. It presents the structure, genome, and methods of transmission that influence emergence and considers non-viral factors that favor emergence, such as animal domestication, human demography, population growth, human behavior, and land-use changes.

When viruses jump species, the result can be catastrophic, causing disease and death in humans and animals. These zoonotic outbreaks reflect several factors, including increased mobility of human populations, changes in demography and environmental changes due to globalization. The threat of new, emerging viruses and the fact that there are no vaccines for the most common zoonotic viruses drive research in the biology and ecology of zoonotic transmission.

In this book, specialists in 11 emerging zoonotic viruses present detailed information on each virus's structure, molecular biology, current geographic distribution, and method of transmission. The book discusses the impact of virus emergence by considering the ratio of mortality, morbidity, and asymptomatic infection and assesses methods for predicting, monitoring, mitigating, and controlling viral disease emergence.

- Analyzes the structure, molecular biology, current geographic distribution and methods of transmission of 10 viruses
- Provides a clear perspective on how events in wildlife, livestock, and even companion animals have contributed to virus outbreaks and epidemics
- Exemplifies the "one world, one health, one medicine" approach to emerging disease by examining events in animal populations as precursors to what could affect humans

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Editorial Review

Review

"The particular value of this new compilation lies in the authority and expertise of the selected authors...valuable to a more specialized audience that needs to look beyond generalities to consider those factors that may help to change the course of emergence and reduce disease. Rating: 4 Stars"--*Doody's.com*,

10-Oct-14

From the Back Cover

When viruses jump species, the result can be catastrophic, causing disease and death in both humans and animals. HIV-AIDS, SARS, Ebola, Avian Flu, Swine Flu, and Rabies are all emerging or re-emerging infectious diseases caused by such zoonotic transmissions. These outbreaks reflect a number of factors including rapid international travel, population growth and environmental changes due to globalization. The threat of new emerging viruses and the fact that there are no vaccines for the most common zoonotic viruses, drive research in both the biology and ecology of zoonotic transmission.

The Role of Animals in Emerging Viral Diseases presents what is currently known about the role of animals in the emergence of these viruses. It covers the structure, genome, and methods of transmission that influence emergence, and considers non-viral factors that favor emergence such as animal domestication, human demography, population growth, human behavior, and land-use changes. Specialists in each of the ten emerging viruses present detailed information on each virus' structure, molecular biology, current geographic distribution, and method of transmission. The book discusses the impact of virus emergence and considers methods for detecting, monitoring, mitigating, and controlling viral disease emergence.

- Analyzes the structure, molecular biology, current geographic distribution and methods of transmission of 10 viruses
- Provides a clear perspective on how events in wildlife, livestock, and even companion animals have contributed to virus outbreaks and epidemics
- Exemplifies the “One World One Health One Medicine” approach to emerging disease by examining events in animal populations as precursors to what could affect humans
- An authoritative single-source reference for virologists, veterinarians, clinicians, infectious disease specialists, graduate students, and researchers

About the Author

Nick Johnson has worked in biological research for over 20 years working on projects as diverse as HIV pathogenic mechanisms to transmission of bat borne diseases. The main focus of his research over the past fourteen years has been the investigation of the epidemiology and disease mechanisms of zoonotic viruses including rabies virus, West Nile virus and tick-borne encephalitis virus. He has published extensively through original research in peer-review journals, commissioned reviews and book chapters.

Users Review

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