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## **Altmetric - Influenza Pathogenesis and Control - Volume I**

Influenza viruses readily transmit from person to person via small or large respiratory droplets from a sneeze or cough. Successful transmission and infection typically begins 1 day prior to developing symptoms, which can last up to 7 days in adults and 21 days or more in children (World Health Organization Writing Group et al. 2006). While influenza viruses can spread by large droplets up to ...

## **Secondary Bacterial Infections in Influenza Virus ...**

Abstract. Aberrant pulmonary immune responses are linked to

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the pathogenesis of multiple human respiratory viral infections. Elevated cytokine and chemokine production “cytokine storm” has been continuously associated with poor clinical outcome and pathogenesis during influenza virus infection in humans and animal models.

### **The Role of Cytokine Responses During Influenza Virus ...**

Volume I: Molecular Biology focuses on the molecular processes of viral reproduction, from entry through release. Volume II: Pathogenesis and Control addresses the interplay between viruses and their host organisms, on both the micro- and macroscale, including chapters on public health, the immune response, vaccines and other antiviral strategies ...

### **Principles of Virology, Volume 2: Pathogenesis and Control ...**

To determine if fatal infections caused by different highly



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virulent influenza A viruses share the same pathogenesis, we compared 2 different influenza A virus subtypes, H1N1 and H5N1. The subtypes, which had shown no pathogenicity in laboratory mice, were forced to evolve by serial passaging. Although both adapted viruses evoked diffuse alveolar damage and showed a similar 50% mouse lethal ...

## **Influenza A Strain-Dependent Pathogenesis in Fatal H1N1**

...

Belser JA, Gustin KM, Pearce MB et al (2013) Pathogenesis and transmission of avian influenza A (H7N9) virus in ferrets and mice. Nature 501:556–559 PubMed Google Scholar Bertram S, Heurich A, Lavender H et al (2012) Influenza and SARS-coronavirus activating proteases TMPRSS2 and HAT are expressed at multiple sites in human respiratory and ...

## **The Hemagglutinin: A Determinant of Pathogenicity ...**

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The pathogenesis of avian influenza A (H5N1) virus in humans has not been clearly elucidated. Apoptosis may also play an important role. We studied autopsy specimens from 2 patients who died of infection with this virus. Apoptosis was observed in alveolar epithelial cells, which is the major target cell type for the viral replication. Numerous apoptotic leukocytes were observed in the lung of ...

## **Apoptosis and Pathogenesis of Avian Influenza A (H5N1**

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Abstract Secondary methicillin-resistant Staphylococcus aureus (MRSA) infection is a cause of severe pneumonia with high mortality during influenza A virus (IAV) pandemics. Alveolar macrophages (AM...

## **Aggravated MRSA pneumonia secondary to influenza A virus ...**

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Genetic sequences of a highly pathogenic avian influenza (H5N8) virus in England have high homology to those detected in mainland Europe and Asia during 2014. Genetic characterization suggests this virus is an avian-adapted virus without specific affinity for zoonoses. Spatio-temporal detections of H5N8 imply a role for wild birds in virus spread.

### **Genetic Characterization of Highly Pathogenic Avian ...**

As the recent outbreak of SARS-CoV-2 has highlighted, the threat of a pandemic event from zoonotic viruses, such as the deadly influenza A/H7N9 virus subtype, continues to be a major global health concern. H7N9 virus strains appear to exhibit greater disease severity in mammalian hosts compared to natural avian hosts, though the exact mechanisms underlying this are somewhat unclear.

### **Frontiers | The Dynamics of the Ferret Immune Response**

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Orthomyxoviridae (ὀρθός, orthós, Greek for "straight"; μύξα, mýxa, Greek for "mucus") is a family of negative-sense RNA viruses. It includes seven genera: Alphainfluenzavirus, Betainfluenzavirus, Deltainfluenzavirus, Gammainfluenzavirus, Isavirus, Thogotovirus, and Quaranjavirus. The first four genera contain viruses that cause influenza in vertebrates, including humans, birds (see ...

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