Special Issue

Infection Immunity, Diagnosis and Prevention of Avian Influenza

Message from the Guest Editors

This Special Issue invites submissions on the latest research in avian influenza, focusing on the following areas: 1) Molecular and cellular mechanisms of infection: Understanding how avian influenza viruses infect host cells, replicate, and cause disease, with a focus on virus–host interactions and immune modulation; 2) Immunity to avian influenza: Investigations into the immune response to infection, including the roles of CD4+ and CD8+ T cells, antibodies, and the cytokine response; 3) Cross-species transmission and evolution: Research on how avian influenza viruses evolve and adapt to new hosts; 4) Diagnostic technologies for avian influenza: Advances in molecular, serological, and imaging-based diagnostic methods for detecting avian influenza in poultry and wildlife, including rapid and field-based testing techniques; 5) Vaccine development and prevention strategies: Novel approaches to developing vaccines that provide broad protection against diverse avian influenza strains; 6) Surveillance and epidemiology: Global surveillance strategies to monitor avian influenza outbreaks, track virus spread, and assess risk factors for new outbreaks.

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About the Journal

Message from the Editor-in-Chief

Animals is an on-line open access journal that was first published in 2011. *Animals* adheres to rigorous peerreview and editorial processes and publishes only high quality manuscripts that address important issues in the many varied disciplines that involve animals, with a focus on animal science, animal welfare and animal ethics. *Animals* is covered in the Science Citation Index Expanded (SCIE) in Web of Science, with the latest Impact Factor: 2.7 (2024, ranks 15/86 (Q1) in 'Agriculture, Dairy & Animal Science'; 21/170 (Q1) in 'Veterinary Sciences'), 5-Year Impact Factor: 3.2.

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