

Special Issue

Advances in Pathogenic Mechanisms and Drug Strategies of Veterinary Pathogens

Message from the Guest Editors

Animals (economic animals, pets, wild animals) are frequently exposed to various pathogens (bacteria, viruses, parasites) during their lives. Pathogen infections can cause various types of damage to the bodies of animals, and can even lead to death. However, animals can activate various defense mechanisms such as innate immunity, adaptive immunity, anti-inflammatory and antioxidant effects, and apoptosis to combat pathogens. Of course, effective drug treatments can significantly enhance the ability of animals to resist infections. Traditional Chinese Medicine (TCM), natural herbs and plant extracts play an important role in the prevention and treatment of animal diseases. However, the mechanisms underlying their therapeutic effects remain largely unexplored. Therefore, this Special Issue focuses on elucidating pathogenic infection mechanisms and presenting natural product/phytochemical interventions. These insights will facilitate the discovery of novel therapeutics and strategies for the prevention and treatment of pathogen infections in animals.

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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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