

Special Issue

Veterinary Microbial Infectious Diseases in the One Health Era: Pathogenesis, Antimicrobial Resistance, and Innovative Control Strategies in Zoonoses

Message from the Guest Editors

In the era of One Health, veterinary microbial infectious diseases are increasingly being recognized as critical drivers of zoonotic outbreaks and antimicrobial resistance and as threats to animal production and public health. This Special Issue will highlight cutting-edge research on microbial pathogens affecting livestock, companion animals, and wildlife and their potential spillover to humans. We invite original research articles, reviews, and case studies addressing pathogenesis, molecular epidemiology, and host-pathogen interactions in veterinary pathogens. We particularly encourage studies on antimicrobial resistance mechanisms, novel diagnostics, vaccines, and innovative disease control strategies, such as precision livestock management, microbiome modulation, and genomic surveillance. By integrating veterinary science into One Health approaches, this Special Issue will advance our understanding of emerging microbial threats, promote evidence-based interventions, and support sustainable animal health and food security on a global scale.

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About the Journal

Message from the Editor-in-Chief

Veterinary Sciences (ISSN 2306-7381) is an international and interdisciplinary scholarly open access journal that aims at publishing research in all fields of veterinary medicine in a democratic way. We encourage scientists to publish their original research articles, reviews, communications, and short notes in as much detail as possible. Articles submitted that involve subjecting animals to unnecessary pain or suffering will not be accepted, and all articles must be submitted with the necessary ethical approval (please refer to the Ethical Guidelines for more information).

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