

Special Issue

One Health Perspectives on Foodborne Pathogens: Evolution, Resistance, and Prevention

Message from the Guest Editor

The One Health approach addresses foodborne pathogens by integrating human, animal, and environmental health perspectives to enhance public health outcomes. This framework acknowledges that foodborne pathogens, such as Salmonella and Campylobacter, circulate across these interconnected domains, evolving through gene transfer and adapting to antimicrobial agents used in agriculture and medicine. Antimicrobial resistance (AMR) in these pathogens poses a significant threat, as resistant strains can spread between animals, humans, and environments, complicating treatment efforts and exacerbating health risks. By adopting a One Health perspective, researchers and policymakers aim to monitor and mitigate AMR and pathogen transmission through coordinated surveillance, safer agricultural practices, and targeted interventions. This comprehensive view highlights the need for cross-sector collaboration to address food safety, develop effective prevention strategies, and ensure sustainable approaches to antimicrobial use.

Guest Editor

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Message from the Editor-in-Chief

The worldwide impact of infectious disease is incalculable. The consequences for human health in terms of morbidity and mortality are obvious and vast but, when infections of animals and plants are also taken into account, it is hard to imagine any other disease that has such a significant impact on our lives—on healthcare systems, on agriculture and on world economics.

Pathogens is proud to continue to serve the international community by publishing high quality studies that further our understanding of infection and have meaningful consequences for disease intervention.

Editor-in-Chief

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