

## Special Issue

# Dairy Cattle Health: Mastitis, Milk Quality, and Antimicrobial Resistance from a One Health Perspective

### Message from the Guest Editor

Among the factors affecting milk production, mastitis continues to play an important role. Furthermore, reducing the incidence of mastitis in dairy herds is essential to improve milk quality, safety, animal welfare, and the overall sustainability of dairy herds. In the last century, a large number of studies have focused on the use of vaccination and biological response modifiers to control mastitis. However, until the beginning of this century, the use of antimicrobial therapy was considered the most effective and simplest way to achieve mastitis control, although the sustainability of this approach was questionable. This special issue aims to gather the most recent and relevant results on this topic and offer new sustainable approaches to control mastitis and improve milk quality and safety. Both original research and review articles are welcomed. Potential topics include, but are not limited to, the following:

- Omics studies on udder immune mechanisms;
- Mastitis vaccine development and application;
- Udder immune modulators;
- Differential cell counts to assess udder immune response;
- Immune components as mastitis diagnostic tools.

### Guest Editor

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### Deadline for manuscript submissions

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## Pathogens

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## About the Journal

### 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.

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### Editor-in-Chief

Prof. Dr. Hinh Ly

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