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Pathogens in Ruminant Mastitis

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Deadline for manuscript submissions:
closed (30 April 2023)

Message from the Guest Editors

Ruminant mastitis is an important disease in the dairy industry and has a detrimental impact on the economy and welfare of the animals. There is a large variety of Gram-positive and Gram-negative bacteria associated with mastitis, including *Streptococcus agalactiae*, *Streptococcus uberis*, *Micrococcus pyogenes*, *Staphylococcus aureus*, *Escherichia coli*, and other bacterial pathogens. Microorganisms colonize the teat skin and teat canal; they penetrate the mammary gland, adapt to the glandular epithelium, form biofilms there, interact with the microbiome, dissolve and stimulate inflammatory processes, destroy the glandular tissue and the blood–milk barrier, and penetrate the blood vessel system.

The aim of this Special Issue is to share experience and new insights into the causative microorganisms and the pathogenesis of ruminant mastitis, risk factors for intramammary infections and subclinical mastitis, and molecular diagnostics and control strategies applied to mastitis problems.

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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.

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