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Second Edition: Decoding the Genetics of Bovine Mastitis

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Message from the Guest Editor

Mastitis in dairy cow causes significant economic losses through the decreased production and milk quality. The compromised milk also poses a health hazard if it is consumed. Pathogenic microbial infection is the main cause of mastitis. Pathogens can colonize and multiply in the mammary gland, and can enter and persist in host cells. Most antibiotics cannot enter cells or may be ineffective if their cellular concentration is too low. Pathogens can also develop resistance to antibiotics. Residual antibiotics in milk present significant food safety problems for human health. Therefore, non-antibiotic methods for the prevention and treatment of bovine mastitis have attracted great interest. This research topic will focus on applying the advances to explore gene regulation and its molecular mechanism in bovine mastitis.



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Special Issue



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Message from the Editor-in-Chief

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