The Development of a SYBR Green-based RT-qPCR for the Detection and Quantification of Lone Star Virus

This study provides a novel detection assay for the Lone Star virus (LSV). LSV is a tick-borne virus that has exhibited pathogenic potential, yet there is a lack of research as well as a reliable detection assay available in the literature. In order to detect and monitor this potential emerging infectious disease and further characterize its pathogenicity, a detection and quantification assay was necessary. Here, this study developed and validated two primer sets for the LSV M and S segments for sensitive, specific, and reproducible reverse-transcription quantitative polymerase chain reaction (RT-qPCR) assays.

Event Information
Date: 14 October 2022
Time: 11 AM – 2 PM
Location: LSB 400M

Committee Members
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