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Issue: # 12-2015

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JVDI In Focus

The goal of JVDI in Focus is to bring attention to an interesting article appearing in the most recent issue of the Journal of Veterinary Diagnostic Investigation. This month's focus is on "Technological advances in bovine mastitis diagnosis: an overview" by Carla M. Duarte, Paulo P. Freitas, and Ricardo Bexiga.

J Vet Diagn Invest doi: 10.1177/1040638715603087

Abstract. Bovine mastitis is an economic burden for dairy farmers and preventive control measures are crucial for the sustainability of any dairy business. The identification of etiological agents is necessary in controlling the disease, reducing risk of chronic infections and targeting antimicrobial therapy. The suitability of a detection method for routine diagnosis depends on several factors, including specificity, sensitivity, cost, time in producing results, and suitability for large-scale sampling of milk. This article focuses on current methodologies for identification of mastitis pathogens and for detection of inflammation, as well as the advantages and disadvantages of different methods. Emerging technologies, such as transcriptome and proteome analyses and nano- and microfabrication of portable devices, offer promising, sensitive methods for advanced detection of mastitis pathogens and biomarkers of inflammation. The demand for alternative, fast, and reliable diagnostic procedures is rising as farms become bigger. Several examples of technological and scientific advances are summarized which have given rise to more sensitive, reliable and faster diagnostic results.

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Sincerely,

Jim Kistler
Executive Director
American Association of Veterinary Laboratory Diagnosticians

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