Veterinary Services

Update on CEM PCR at NVSL

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Contagious Equine Metritis PCR

• NVSL current status
  – Current PCR
    • Used for species differentiation between \textit{Taylorella equigenitalis} and \textit{T. asinigenitalis}
    • Used recently to directly evaluate semen samples from a positive stallion
      – Positive with very high numbers
      – Detection still lower than culture
      – Samples also provided to Gluck Research Center
CEM PCR

- NVSL current status
  - Development stage
    - Evaluating DNA extraction methods
    - Early stages of new PCR development
  - Sample acquisition for test validation
    - Bank of positive and negative swabs
    - Obtaining semen from positive stallions
    - Obtaining swabs from higher risk horses
    - International collaboration?
CEM PCR

• Upon completion of new test development
  – Perform a comparison of available PCRs
  – Evaluate whether one or multiple PCR protocols are appropriate for testing swabs
  – Criteria: Sensitivity equal to or greater than culture
Acknowledgement

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Please contact Dr. Lantz at Kristina.Lantz@aphis.usda.gov
Questions?