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## The 2012 Advancement in Equine Research Award

(Limit to one page. Attach immediately behind proposal cover page, plus one copy on top of original proposal)

**Principal Investigator:**

**Project Title:**

**Area of Research Focus:**

- Pathophysiology of *Corynebacterium pseudotuberculosis* and development of an equine challenge model
- Virulence factors and strain differences among isolates of *C. pseudotuberculosis* isolated from internal and external infections and different geographic locations
- Increased incidence and spread to different geographic locations and association with climate change
- Comparison of host immunity between infections resulting in internal infection and recurrent infection in recovered horses
- Seasonality of infection with *Corynebacterium pseudotuberculosis* and studies of insect vectors

**Objectives of Research Proposal:**

**Description of Research Project:**

**Benefits of Research to Industry:**

**Estimated Cost of Research:**

**Estimated Timetable of Research:**