

SWINE HEALTH

Title: Implementation of a PRRSV Strain Database (Renewal) - **NPB #06-127**

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Scientific Abstract: The PRRSV database now contains 7,627 unique sequences (>2% nucleotide difference) with accessions from the Minnesota Veterinary Diagnostic Laboratory, the South Dakota Disease Research & Diagnostic Laboratory, the Manitoba Veterinary Services Branch as well as many PRRSV sequences gathered from GenBank. The expansion of the database to include other laboratories has made exploration of possible new field isolates more robust. In this past year, we have also taken the necessary steps to incorporate field surveillance data, made online submission easy for the technicians, and improved the query capability of the database. In so doing, the web-page format was drastically altered, using software tools that have just become available within the past year. Although not yet fully implemented, this new design promises to be more adept at deriving more user-defined information, not just a limited database for sequence viewing and comparison. As the project enters its fourth year, we now can concentrate on providing clinical data, additional nucleotide sequence content and more advanced bioinformatics tools.

These research results were submitted in fulfillment of checkoff funded research projects. This report is published directly as submitted by the project's principal investigator. This report has not been peer reviewed

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