Mycoplasma hyorhinis Field Isolates for Vaccine Development

APPLICATION AREAS
Vaccine Development; Challenge Strains

ABSTRACT
Mycoplasma hyorhinis has historically been considered to be a normal comensal organism found in the respiratory tracts of pigs. More recently, however, M. hyorhinis has been found to be a primary cause of polyserositis in pigs, and has been found also found in association with other important pig pathogens, such as M. hyopneumoniae, the principal causative agent of enzootic pneumonia, and viruses such as porcine respiratory and reproductive syndrome virus (PRRSV). M. hyorhinis has also been found to cause arthritis in pigs. Commercial vaccines for protection against M. hyorhinis infection are not available at present, and a limited number of isolates are available for vaccine development since only a few laboratories have M. hyorhinis diagnostic and culturing capabilities. As part of investigations in M. hyorhinis diagnostics, an ISU researcher has cultured clinical isolates of this organism. This series of field isolates may be useful for the development of vaccines to protect against M. hyorhinis infection, as well as for serving as challenge strains to determine vaccine efficacy.

BENEFITS
- Increases number of isolates available for vaccine development

INVENTOR
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DEVELOPMENTAL STATUS

INTELLECTUAL PROPERTY STATUS (February 2013)
Tangible property

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