Pathogenesis of a parainfluenza virus associated with respiratory disease in swine

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WHERE: Room 2226
Veterinary Medicine Building

HOST: Dr. Michael Cho

PIZZA SERVED!

The Iowa State University Veterinary Diagnostic Laboratory is a national leader in protecting animal and human health. The ISUVDL is a full-service laboratory that processes approximately 80,000 cases and conducts 1.25 million tests annually. The ISUVDL is also a leader in pathogen discovery and research. Porcine Respirovirus type 1, or porcine parainfluenza virus type 1 (PPIV-1), is a virus recently detected in swine that may be involved in the porcine respiratory disease complex. PPIV-1 is a member of the Paramyxoviridae family, genus Respirovirus and is a negative-sense, single-stranded RNA virus. Parainfluenza viruses, such as human parainfluenza virus type 1 and 3, cause clinical respiratory disease people; however, it is unknown if PPIV-1 is associated with clinical disease in swine in spite of detection. A recent challenge study in conventional and CDCD pigs using a PPIV-1 cell culture isolate was conducted to evaluate the pathogenesis, clinical signs and lesions associated with PPIV-1 infection.