

## SWINE HEALTH

**Title:** Characterization of porcine parvovirus type 3 (PPV3) infection in growing pigs – NPB #12-187

**Investigator:** Patrick G. Halbur DVM, MS, PhD

**Institution:** Iowa State University

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### Scientific Abstract

In recent years increasing usage of molecular biology tools has resulted in identification of a variety of previously unknown virus species. Porcine parvovirus type 3 (PPV3) is considered an emerging pathogen in pigs although little information on its distribution and pathological potential is available. The objective of this study was to further characterize PPV3 infection in pigs. A serology assay to detect a specific antibody response to PPV3 was developed and will be a useful tool to further conduct epidemiological investigations. In addition, an infectious clone was constructed which also will be useful for future investigations. The obtained *in vivo* results after experimental infection of CDCD pigs indicate that PPV3 viremia is rather short and of low magnitude in healthy pigs. Furthermore, seroconversion occurred after 2 weeks which is similar to other pathogens in pigs such as classical PPV and porcine circovirus type 2 (PCV2).

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For more information contact:

National Pork Board • PO Box 9114 • Des Moines, IA 50306 USA • 800-456-7675 • Fax: 515-223-2646 • [pork.org](http://pork.org)

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