

For Immediate Release

U.S. Poultry & Egg Association

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Researchers Assess Efficacy of Salmonella Vaccines to Reduce S. Reading Colonization, Dissemination and Persistence in Turkeys

USPOULTRY and the USPOULTRY Foundation announce the completion of a funded research project at the USDA, ARS, National Disease Center in which researchers assessed the efficacy of Salmonella vaccines to reduce S. Reading colonization, dissemination and persistence in turkeys. The research was made possible in part by the Cooper Family Foundation and proceeds from the International Poultry Expo, part of International Production & Processing Expo (IPPE). The research is part of the Association's comprehensive research program encompassing all phases of poultry and egg production and processing. A summary of the completed project is below.

Project BRU015: Vaccination Against Salmonella Enterica Serotype Reading: Evaluation of the Cross-Protective Salmonella BBS 866 Vaccine and the AviPro® Megan® Egg Vaccine at Reducing Outbreak-Associated S. Reading Colonization, Dissemination and Persistence in Turkeys

(Dr. Shawn Bearson, USDA, ARS, National Animal Disease Center, Ames, Iowa)

The previous foodborne outbreak of Salmonella enterica serovar Reading revealed the need for effective control of this serovar in turkey production. Vaccination can reduce Salmonella in poultry. Dr. Shawn Bearson, a microbiologist within the Food Safety & Enteric Pathogens Research Unit at the USDA, ARS, National Animal Disease Center, recently completed a research project that assessed the vaccine efficacy of two live-attenuated Salmonella vaccines, the commercial AviPro® Megan® Egg vaccine and an internally developed cross-protective BBS 866 DIVA vaccine, to reduce S. Reading colonization in turkeys. Findings showed that vaccination with BBS 866 or AviPro® Megan® Egg significantly reduced colonization by S. Reading in turkeys, indicating that these vaccines are cross-protective and could be a pre-harvest intervention strategy against this serovar.

The research [summary](#) can be found on the USPOULTRY website. Information on other Association research may also be obtained by visiting the USPOULTRY website, www.uspoultry.org.

About USPOULTRY

U.S. Poultry & Egg Association (USPOULTRY) is the All Feather Association progressively serving its poultry and egg members through research, education, communications and technical services. Founded in 1947, USPOULTRY is based in Tucker, Georgia.