

**For Immediate Release**  
**U.S. Poultry & Egg Association**  
**Tucker, GA - January 12, 2023**

**Contact:** Gwen Venable, 678.514.1971, [gvenable@uspoultry.org](mailto:gvenable@uspoultry.org)

**Researcher Evaluates Potential Antibiotic Alternative Approaches for Controlling Salmonella in Poultry**

USPOULTRY and the USPOULTRY Foundation announce the completion of a funded research project at The Ohio State University in which the researcher evaluated potential antibiotic alternative approaches for controlling Salmonella in poultry. The research was made possible in part by Simmons Foods and proceeds from the International Poultry Expo, part of the 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 #720: Genetic Identification and Screening for Potent Anti-Salmonella Gut Peptide Variant in Chicken: Avian Defensin, Beta Defensin 1 (AvBD1)**

(Dr. Kichoon Lee, Department of Animal Sciences, The Ohio State University, Columbus, Ohio)

Dr. Kichoon Lee, professor at The Ohio State University, recently completed a research project that evaluated potential antibiotic alternative approaches for controlling Salmonella in poultry. Avian defensins have potent anti-bacterial activity. The expected long-term impact of the study was to help poultry breeders selectively breed chickens to have the most effective AvBD1 genotype; reduce the Salmonella population within the chicken gut; and ultimately produce a safer poultry product. Although variations were identified in AvBD1 proteins among chicken populations, the in vivo and in vitro data did not show differences in anti-Salmonella activities.

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](http://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.