For Immediate Release
U.S. Poultry & Egg Association

Contact: Gwen Venable, 678.514.1971, gvenable@uspoultry.org

Research Provides Insight on Colonization of Broilers by Salmonella

Tucker, Ga., Sept. 18, 2019 – USPOULTRY and the USPOULTRY Foundation announce the completion of a funded research project at Auburn University in Auburn, Alabama, in which researchers were able to provide insight on colonization of broilers by Salmonella. The research was made possible in part by an endowing Foundation gift from Cargill and is part of the Association’s comprehensive research program encompassing all phases of poultry and egg production and processing. A brief summary of the completed project is shown below. A complete report, along with information on other Association research, may be obtained by going to USPOULTRY’s website, www.uspoultry.org. The project summary is as follows.

Project #BRU001: Determining the Dose, Time and Route of Challenge and the Eventual Sites of Colonization of Two Salmonella Serovars

(Dr. Kenneth S. Macklin and Dr. Sacit “Sarge” F. Bilgili, Auburn University, Auburn, Alabama)

Dr. Ken Macklin and Dr. Sarge Bilgili from Auburn University recently completed a research project where they studied the ability of Salmonella enteritidis (SE) and Salmonella heidelberg (SH) to colonize and persist in various tissues and organs of broilers inoculated by various routes and at different ages. They found that feeding broilers continuously with feed contaminated with a low level of either SE or SH resulted in every bird being contaminated. Additionally, they found that aerosol exposure was efficient in establishing colonization of SE and SH in broilers. Their results also showed that broilers could potentially become colonized by Salmonella at any time during their lives.

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.

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U.S. Poultry & Egg Association (USPOULTRY) is the all-feather organization representing the complete spectrum of today’s poultry industry, whose mission is to progressively serve member companies through research, education, communication and technical assistance. Founded in 1947, USPOULTRY is based in Tucker, Georgia.