For Immediate Release
U.S. Poultry & Egg Association
Tucker, GA - July 13, 2026

Contact: Hannah Keck, 678.514.1979, hkeck@uspoultry.org

Research Shows Promise for AI-Based Salmonella Detection in Poultry

New artificial intelligence (AI)-based tools could help poultry producers detect *Salmonella* more quickly using smartphone images and bird activity patterns, according to a newly published study conducted at the University of Georgia. The project was funded by the USPOULTRY Foundation to advance innovative solutions for poultry health and food safety. The research is part of the Association's comprehensive research program, which encompasses all phases of poultry and egg production and processing, and is made possible in part through proceeds from the International Poultry Expo, part of the International Production & Processing Expo.

Project # F-114: *Salmonella* Detector: A Mobile Application for On-site Broiler *Salmonella* Infection Diagnosis

(Dr. Guoming, Li, Department of Poultry Science and Institute for Artificial Intelligence, University of Georgia, Athens, Ga.)

A research team led by Dr. Guoming Li explored whether AI and computer vision technologies could provide a faster, more practical approach to monitoring *Salmonella* in poultry flocks. The project had two primary objectives. First, the team developed and evaluated an AI system capable of predicting the presence of *Salmonella* using smartphone images of poultry feces. Second, researchers investigated whether changes in bird activity and daily movement patterns, known as the Broiler Activity Index, could serve as early indicators of *Salmonella* infection.

The findings demonstrate the potential for AI and computer vision to provide rapid, low-cost tools for monitoring *Salmonella* on poultry farms, offering producers new opportunities to strengthen flock health management and biosecurity.

The research summary can be found on the USPOULTRY website. Information on other Association research may also be obtained by visiting the USPOULTRY website.

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.

About USPOULTRY Foundation
The USPOULTRY Foundation's mission is to support the recruitment and training of the brightest students, seek and fund scientific research, foster student scientists and promote careers in the poultry and egg industry.