

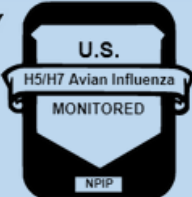
# THE CHICK PAPERS

Georgia Poultry Laboratory Network's Monthly Newsletter



## For Broiler Pre-Slaughter Avian Influenza Testing, What Are Your Options?

By Len Chappell

	Antigen Detection PCR (Active Infection)	Antibody Detection ELISA/AGID Serology (Exposure)
Specimen	Swabs pooled in BHI	Blood or Serum
Sample Collection Time (for 11 birds)	🕒	🕒🕒
Test Cost	\$\$\$	\$
Turn-Around-Time	🕒	🕒🕒*
False Positive Rate	Negligible	0.12% (GPLN 2021 samples)
Additional Test Needed	--	AGID*
Additional Test Cost	--	\$
Time Required for Additional Testing	--	🕒
Best Choice for Last- Minute Flocks	✓	✗
Validity of the Test	Given the short lifespan of broilers, PCR is more likely to detect disease, if infected, prior to processing.	Given the time necessary to develop antibodies and the short lifespan of broilers, serology is less likely to detect disease prior to processing.
SUMMARY	 <p>For broilers, serology is more popular. This is largely because companies are more familiar with serology, and it is less expensive. PCR is a superior test for AI pre-slaughter detection in broilers. While it is more expensive, it does not usually require any additional testing. It is easier and faster to swab fresh mortality in the field with the added benefit of extremely low false positive rates.</p>	

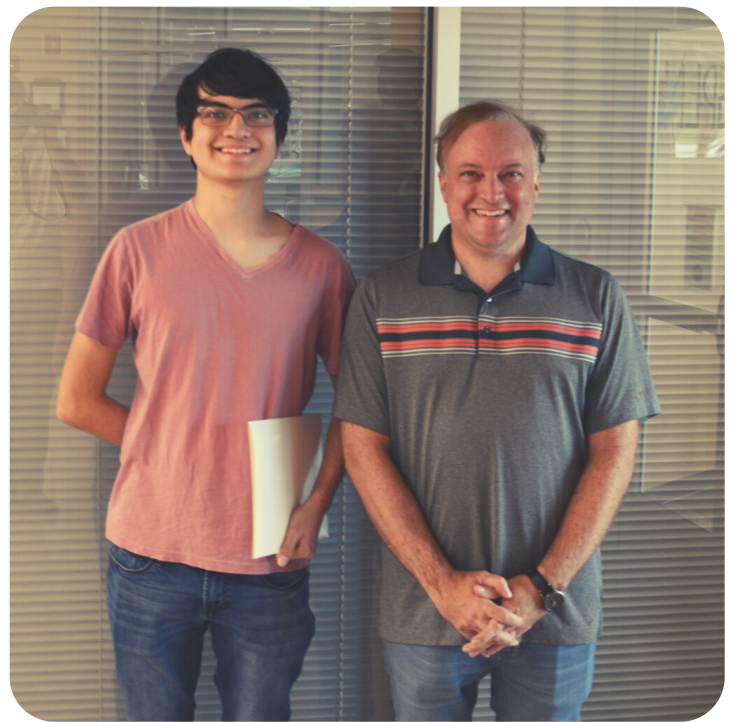
\*Additional 24 hours required to complete AGID testing if any reactors are found on ELISA.



The Georgia Poultry Federation hosts its summer meeting every year at Ponte Vedra, FL. It is an opportunity to share resources and knowledge to industry stakeholders and allied industry. It is always a big hit! It was so good to see Abit and Kayanne Massey there, as we do every year!



Reece Bowers, a USDA intern, was able to spend a week of his externship with us this July. We enjoyed sharing about the lab and the poultry industry with him.



On July 14, Victor Wall and his father, Jason, toured the lab. Victor wanted to come see GPLN and the poultry industry diorama before heading off to UC Davis this fall to study in their poultry science department.