2021 ANNUAL REPORT

The ADDL continued to move forward in 2021 with a focus on excellence in diagnostics and customer service. In response to client needs and requests, our team brought 15 new animal diagnostic tests online. Our faculty, staff, and residents received over 30 external awards and recognitions for their accomplishments in areas including research, teaching, diversity and inclusion, and leadership. Some of these awards are highlighted on pages 5-7 of this report.

In addition to animal diagnostic services, the ADDL performed SARS-CoV2 PCR on more than 100,000 human samples. High-volume SARS-CoV-2 PCR testing for Purdue continuing in the Spring, then slowed in the summer as the University changed to point-of-care antigen tests as the primary testing method at an on-campus facility. However, by the end of summer, the ADDL assumed the role of the primary sequencing lab for Purdue to detect variants of the COVID-19 virus in the University population. The ADDL's experts in molecular diagnostics seamlessly transitioned to offering this sequencing service for human samples, and sequenced over 600 samples by the end of the year. Our ability to perform SARS-CoV2 sequencing should come as no surprise to our clients who are familiar with the ADDL's sequencing services for Influenza, PRRSV, PCV, TCoV and bacteria.

We continue to review our fees for services throughout the ADDL as costs of supplies, reagents, and equipment maintenance increase. The ADDL strives to maintain competitive rates in the market as our fees, which comprise 40% of our budget (see page 3), are updated. The ADDL aims to be service-oriented but also fiscally responsible.

The discussions in the ADDL Advisory Committee fall meeting were a sobering reminder of the unique role the ADDL plays – serving as an insurance policy for the state in case of a high-consequence disease outbreak, while also meeting the day-to-day diagnostic needs of animals. The latter purpose keeps the lab continually busy, while the former is the reason the ADDL was initially established and written into the Indiana code. While the calls related to high-consequence diseases may be few and far between, the ADDL is always prepared to respond.

We hope you find this report to be an informative summary of 2021 at the ADDL. We appreciate the opportunity to partner with you in support of animal health, and wish you and yours all the best in 2022.

Dr. Kenitra Hendrix, ADDL Director





Animal Tests and Accessions by Section (West Lafayette & Heeke)

	Avian	Bacteriology	Histology	Molecular Diagnostics	Parasitology	Pathology	Serology	Toxicology	TSE	Virology	TOTAL
Accessions*	1,712	4,961	6,251	4,045	2,310	8,202	5,307	448	1,238	877	35,351
Tests	8,641	17,071	6,510	24,033	5,514	13,580	24,397	636	1,329	5,611	107,322

^{*} Individual accessions may represent multiple animals and have tests assigned in multiple sections.

The ADDL accessioned a total of 25,683 animal cases in the US in 2021, with **91.9%** originating in Indiana and **8.1%** from out of state.

ADDL Advisory Committee

The **ADDL Advisory Committee** serves the critical role of representing the interests of various sectors to the ADDL leadership. Thank you to the following individuals for their time and dedication to the ADDL.

Dr. Steve Bales IVMA

John Baugh College of Agriculture

Paul Brennan Poultry, ISPA

Dr. Ellen Burcham Beef
Dr. Matt Cantrell IVMA

Representative Don Lehe Indiana Legislature

Mark Guinn Poultry

Dr. Angela Hines USDA/APHIS

Mitch Marcus Wildlife Section Chief

Dr. Bret Marsh Indiana State Veterinarian, BOAH

Dr. Christen McKaig Dairy Industry

Dean Willie Reed College of Veterinary Medicine

Dr. Chris Rumsey Large Animal

Dr. Sandra San Miguel Associate Dean for

Engagement, PVM

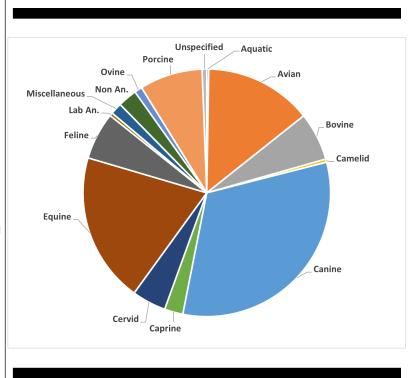
Greg Slipher Indiana Farm Bureau

Nick Tharp Pork

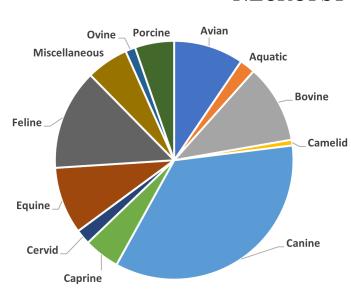
Animal Accessions by Calendar Year

	2019	2020	2021
WL ADDL	24,740	22,599	23,155
HEEKE	2,170	2,180	2,536
TOTAL	26,910	24,779	25,691

Accessions by Species (West Lafayette & Heeke)

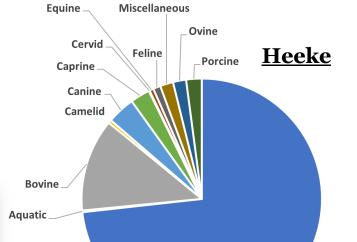


NECROPSY BY SPECIES





Avian

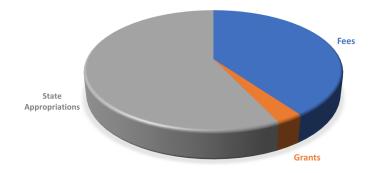


West Lafayette



REVENUE SOURCES

Type of Revenue	Annual Revenue Fiscal Year 2021				
Fees	\$2,427,290.91				
Grants	\$172,034.92				
State Appropriations	\$3,451,751.73				
Total	\$6,051,077.56				



ADDL Provides Pivotal Testing For Presidentially Pardoned Turkeys at Holiday Time

When the turkeys that had received the official presidential pardon at the White Hose before Thanksgiving arrived at Purdue University to settle in to their new post-pardon residence, they had the Animal Disease Diagnostic Laboratory to thank for being able to safely travel to the pardoning ceremony. The two turkeys, named Peanut Butter and Jelly, posed for photo ops November 20, 2021 on Purdue University's Memorial Mall in front of the Boilermaker Special.



How You Can Help?

Help support our work! By giving to our ADDL programs, you will help us meet the most important and urgent needs affecting animal and human health. Having financial flexibility ensures that the ADDL can remain a front-runner in scientific knowledge and discovery as our world evolves. Make a gift today at connect.purdue.edu/s/ddl/about-us.php. Thank you!



Purdue University is an equal access/equal opportunity/affirmative action university.

Outstanding Staff Award

Dr. Craig Bowen, assistant director of the ADDL was the recipient of the PVM 2021 Outstanding Staff Award for excellence in service, enhancing the college's public image, excellence in public and professional services and relations, and exceptional performance of assigned duties above and beyond expectations.

Congratulations Dr. Bowen!



"Dr. Bowen, thank you so much for the way you have excelled in your job as ADDL assistant director through your contributions to the COVID-19 testing effort at the ADDL. This has been in addition to your consistently high level of performance in your regular duties related to animal diagnostics,"

-Dean Willie Reed

Excellence in Service Award

Dr. Rebecca Wilkes was the PVM 2021 Recipient of the Excellence in Service Award!

"The real award goes to the Molecular techs! PVM is recognizing me for this because of our response to COVID, but none of it would have been possible without those of you in molecular who worked some 7 day weeks and stuck it out....thanks for all you do! I appreciate you."

- Dr. Wilkes



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Awards and Recognitions

ACVP BOARDS

Congratulations to all of our former ADDL Pathology residents who passed the ACVP boards this year!

Dr. Jessica Beck

Dr. Caitlin Brown

Dr. Jessica Hanlon

Dr. Kristen Hill-Thimmesch

Dr. Stacey Piotrowski

Dr. Melissa Swan

Dr. Agnes Wong





Dr. Peña received the Brenda Love Best Student
Bacteriology Poster Award for her diagnostic
microbiology research on *Salmonella* titled,
"Comparison of a Commercial Kit and Traditional
Culture Method for Detection of *Salmonella* spp. on
Spiked and Environmental Samples."

Dr. Kristen Hill-Thimmesch received the second place award at the 2021 AALVD Diagnostic Pathology Slide Seminar for her presentation titled, "Multiple Viral Agents in Racing Pigeons."



The Boehringer Ingelheim Summer Research Mentorship Award

Congratulations to Dr. Deepti Pillai, clinical assistant professor of diagnostic microbiology in the Department of Comparative Pathobiology, for receiving the inaugural 2020 mentorship award.



Awards and Recognitions

Dr. Ramos-Vara

became an honorary diplomate of the American College of Veterinary Pathologists.

Dr. Becky Wilkes

received the Distinguished Achievement Award from Union University.

Savanna Harrison and Daniela Peña

completed the Certificate for Diversity and Inclusion at PVM.



National Veterinary Technician Week

Vicky Cross (Virology)
Katie Reuber (Heeke)

Dr. Viju Pillai was featured in the October 20, 2021 Biology Open issue 10 and **Dr. Wilson-Frank** was featured as an AAVLD spotlight.

BRAVO AWARDS

Congratulations to our faculty and staff on receiving Bravo Awards in 2021!

Ali Clauser

Audrey Songer

Coral Kent-Dennis

Debra Lubelski

Dr. Abby Cox

Dr. Geoff Lossie

Dr. Jose Ramos-Vara

Dr. Mario Sola

Dr. Nobuko Wakamatsu-Utsuki