

2015-2020

ILHAC IMPACT

IOWA LIVESTOCK HEALTH ADVISORY COUNCIL

\$1 MILLION INVESTED

- 29 projects funded
- \$10 million of additional funds leveraged



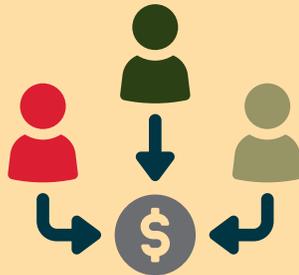
10:1

RETURN
ON INVESTMENT



SOURCES OF ADDITIONAL FUNDING

- USDA
- NIH
- Industry
- Commodity Groups
- Veterinary Associations



Current Projects:

- Investigating the epidemiology of *Ornithobacterium rhinotracheale* and its role in respiratory disease in turkeys
- Developing the next generation of affordable diagnostics for livestock
- Assessing the health impacts of BVD virus on weaned calves
- Development of a *Senecavirus A* vaccine for pigs
- Evaluating the efficacy of commercial PRRSV MLV vaccines for weaned pigs
- Evaluating two novel vaccine platforms for a universal flu vaccine for pigs



STUDENT ENGAGEMENT



- 29 Undergrad
- 50 DVM
- 10 Masters
- 29 PhD

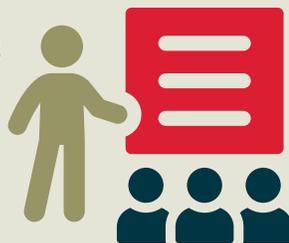
PUBLICATIONS

- 15 Lay Publications
- 48 Peer Reviewed Publications



PRESENTATIONS

- 24 International
- 58 National
- 16 Local



4 INTELLECTUAL
Property Disclosures

ILHAC Funding



\$190,000

Current State of Iowa Funding

IOWA LIVESTOCK HEALTH ADVISORY COUNCIL

FY 2025

- Current Appropriations - \$291,390
- Projects funded in FY 2025

Identification of the apicomplexan target of triazine antiprotozoals and mechanism of drug-resistant coccidiosis

Improving Infectious Coryza laboratory diagnosis through better characterization of different species within the genus *Avibacterium*

Resolving Current Dilemma in Diagnosis and Genotypic Classification of Avian Reoviruses in Commercial Poultry: Establishment and Validation of Immunohistochemistry Assay and Unified Genotypic Classification System

Development of a novel vaccine candidate to protect against Cache Valley virus infections

Prevalence of *Mycoplasma bovis* in Iowa Beef Cattle Herds

“Evaluating Tonsil Oral Scrapings (TOSc) as a *Mycoplasma hyopneumoniae* Surveillance Tool in Breeding Herds” & Effect of pooling and freeze-thaw on the probability of PRRSV RNA detection by a novel sow tonsil-oral scraping (TOSc) sample type”

Characterization of pathogenicity, antibody responses, and cross protection of the contemporary and historical porcine sapovirus isolates

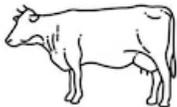
Surveillance and Reporting Tools for Early Key Production Indicators of PRRSV Outbreak Recovery in Breeding Herds

Assessment of risk factors associated with antibiotic use in nursery pigs in commercial swine production

Characterization of bovine mammary organoids for inflammatory markers using advanced high-resolution imaging and high-throughput qPCR assays to evaluate coliform mastitis.

Establishing Avian Metapneumovirus subtype A Turkey Infective Dose 50 for 3-Day-Old and 12-Day-Old Turkeys

Dairy bovine orthomyxoviral mastitis: Elucidating the role of bovine ANP32 protein isoforms in the pathogenesis and pathology of H5N1 clade 2.3.4.4b



The Iowa Livestock Health Advisory Council (ILHAC) funding program has been instrumental in supporting farmer-led research to address emerging animal health challenges—particularly those that have not yet made national headlines. A recent example is the rapid spread of avian metapneumovirus (aMPV) in 2024, which infected millions of turkeys across the U.S. and caused over \$18 million in economic losses for Iowa turkey farmers.

Thanks to ILHAC's support, critical research efforts are already underway to develop solutions, mitigate future outbreaks, and safeguard Iowa's turkey industry. By providing timely funding, ILHAC ensures that researchers and farmers can respond swiftly to emerging threats, protecting both animal health and the economic stability of Iowa's livestock producers.

~ Gretta Irwin, Executive Director, Iowa Turkey Federation