

LIST OF PUBLICATIONS
For
Annual Meeting of Multistate Project S-1076:
Arthropod Management in Animal Agriculture Systems and Impacts on Animal Health
and Food Safety

January 14-15, 2025

1. Aldridge RL, Pagac AA, Norris EJ, Kline DL, Geden CJ, Linthicum KJ. Point Protection with Transfluthrin against *Musca domestica* L. in a Semi-Field Enclosure. *Insects*. 2024;15(4).
2. Asgari D, Nayduch D, Meisel RP. Defensins of the Stable Fly (*Stomoxys calcitrans*) have Developmental-Specific Regulation and Evolve at Different Rates. *Integr Comp Biol*. 2024;64(5):1300-8.
3. Asgari D, Purvis T, Pickens V, Saski C, Meisel RP, Nayduch D. Expression of defensin genes across house fly (*Musca domestica*) life history gives insight into immune system subfunctionalization. *Genome*. 2024;67(9):316-26.
4. Becker M, Gentry G, Husseneder C, Foil L. Seven-year prospective study on yearly incidence of Orbivirus infection of captive white-tailed deer and potential *Culicoides* vectors. *J Med Entomol*. 2024;61(2):465-72.
5. Briggs C, Casey D, Deakins AG, Powell JG, Loftin K, McDermott EG. Natural Panola Mountain Ehrlichia infections in cattle in a longitudinal study of Angus beef calves. *Ticks Tick Borne Dis*. 2024;15(6):102408.
6. Burgess ERt, Mishra S, Yan X, Guo Z, Geden CJ, Miller JS, et al. Differential interactions of ethacrynic acid and diethyl maleate with glutathione S-transferases and their glutathione co-factor in the house fly. *Pestic Biochem Physiol*. 2024;205:106170.
7. Butler RA, Muller LI, Grove D, Trout Fryxell RT. Ecological relationships of *Haemaphysalis longicornis* Neumann with other tick species on wildlife hosts at cow-calf farms implementing integrated pest management in eastern Tennessee. *Parasitology*. 2024;151(9):1001-11.
8. Chu HH, Murillo AC. Variation in the community composition of blow flies (Diptera: Calliphoridae) in neighboring deserts within Joshua Tree National Park. *Environ Entomol*. 2024.

9. D'Arco S, Maistrello L, Hubbard CB, Murillo AC, Gerry AC. Use of the Proboscis Extension Response Assay to Evaluate the Mechanism of House Fly Behavioral Resistance to Imidacloprid. *Insects*. 2024;15(3).
10. Foy PD, Loetzerich SR, Boxler D, Burgess ER, IV, Trout Fryxell RT, Gerry AC, et al. Frequencies of house fly proto-Y chromosomes across populations are predicted by temperature heterogeneity within populations. *Journal of Heredity*. 2024.
11. Geden CJ, White RL, Pagac AA, Machtinger ET. Comparative susceptibility of adult house fly (Diptera: Muscidae) and an important predator, *Carcinops pumilio* (Coleoptera: Histeridae), to *Beauveria bassiana* (Hypocreales: Cordycipitaceae). *Journal of Medical Entomology*. 2024;61(4):1009-15.
12. Gerry AC, Wilson S, Chu HH, Lemus K, Murillo AC. Evaluation of bacterial treatments (*Bacillus* spp.) for control of immature house flies, 2024. *Arthropod Management Tests*. 2024;49(1).
13. Gunathunga PB, King BH, Geden CJ. Behavioral response of house flies (Diptera: Muscidae) to 3 bittering agents. *Journal of Insect Science*. 2025;25(1).
14. Hinkle NC. Animal Suffering and Euthanization Caused by Human Psychosis. In: Ridge GE, editor. *The Physician's Guide to Delusional Infestation*. Cham: Springer International Publishing; 2024. p. 147-56.
15. Holmes A, Stoffolano JG, Geden CJ. Quantification of saliva production in *Musca domestica* L. (Diptera: Muscidae) and the impact of MdSGHV infection. *J Vector Ecol*. 2024;50(1):23-7.
16. Holquinn JA, Sutherland HL, Sculley ER, Erasmus MA, Brito LF, Murillo AC. How mites influence cage-free egg production in the United States, mite management strategies, and the mitigating role of genomic selection. *Anim Front*. 2024;14(5):24-31.
17. Hubbard CB, Murillo AC. Behavioral resistance to insecticides: current understanding, challenges, and future directions. *Curr Opin Insect Sci*. 2024;63:101177.
18. Hubbard CB, Murillo AC. Evaluation of the inheritance and dominance of behavioral resistance to imidacloprid in the house fly (*Musca domestica* L.) (Diptera: Muscidae). *Insect Sci*. 2024;31(5):1533-42.
19. Johnson DM, Weeks ENI, LoVullo ED, Geden CJ. Topical treatment of adult house flies, *Musca domestica* L. (Diptera: Muscidae), with *Beauveria bassiana* in combination with three entomopathogenic bacteria. *Florida Entomologist*. 2024;107(1).

20. Lawson BE, McDermott EG. Successful yeast microencapsulation of fluralaner and its potential as a larvicide for vector control. *Acta Trop.* 2024;259:107358.
21. Machtinger ET. Highlights of veterinary entomology, 2023: beyond the barnyard: exploring the wild side of veterinary entomology. *J Med Entomol.* 2025;62(1):1-7.
22. Machtinger ET, Smarsh DN, Kenny LB, Poh KC, Orr-Gissinger EL, Kirkland BG, et al. An assessment of equine veterinarian knowledge and perceptions of ticks and tick-borne diseases in the United States to inform continuing education needs. *Equine Veterinary Education.* 2024;36(10):527-35.
23. Murillo AC, Abdoli A, Blatchford RA, Keogh EJ, Gerry AC. Low levels of chicken body louse (*Menacanthus stramineus*) infestations affect chicken welfare in a cage-free housing system. *Parasit Vectors.* 2024;17(1):221.
24. Neupane S, Park Y, Watson DW, Trout Fryxell RT, Burgess ERt, Nayduch D. Bacterial Communities of House Flies from Dairy Farms Highlight Their Role as Reservoirs, Disseminators, and Sentinels of Microbial Threats to Human and Animal Health. *Insects.* 2024;15(9).
25. Scroggs SLP, Swanson DA, Steele TD, Hudson AR, Reister-Hendricks LM, Gutierrez J, Shults P, McGregor BL, Taylor CE, Davis TM, Lamberski N, Phair KA, Howard LL, McConnell NE, Gurfield N, Drolet BS, Pelzel-McCluskey AM, Cohnstaedt LW. Vesicular Stomatitis Virus Detected in Biting Midges and Black Flies during the 2023 Outbreak in Southern California. *Viruses.* 2024 Sep 7;16(9):1428.
26. Scott JG, Baker OS, Dressel AE, Norris RH, Burgess ERt. Isolation and characterization of the decreased cuticular penetration mechanism of fluralaner resistance in the house fly, *Musca domestica*. *Pestic Biochem Physiol.* 2024;205:106154.
27. Smarsh DN, Kenny LB, Spindler M, Poh KC, Machtinger ET. Knowledge and perception of equine ticks and tick-borne diseases of Pennsylvania horse owners and caretakers. *J Equine Vet Sci.* 2024;139:105092.
28. Steele CH, McDermott EG. From forests to fields: investigating Culicoides (Diptera: Ceratopogonidae) abundance and diversity in cattle pastures and adjacent woodlands. *J Med Entomol.* 2024;61(2):473-80.
29. Tian Y, Hogsette JA, Norris EJ, Hu XP. Topical Toxicity and Repellency Profiles of 17 Essential Oil Components against Insecticide-Resistant and Susceptible Strains of Adult *Musca domestica* (Diptera: Muscidae). *Insects.* 2024;15(6).

30. Torres JN, Hubbard CB, Murillo AC. Examining imidacloprid behaviorally resistant house flies (*Musca domestica* L.) (Diptera: Muscidae) for neonicotinoid cross-resistance. *J Med Entomol.* 2024;61(6):1443-7.
31. Tsecouras JC, Hung KY, Henke JA, Gerry AC. Effect of sex and age on survival of adult *Culex tarsalis* from a susceptible laboratory strain exposed to permethrin in the CDC bottle bioassay. *J Am Mosq Control Assoc.* 2024;40(4):169-73.
31. Valdes SM, Simonson S, Scott-Waldron C, Balsamo G, Grasperge BJ, Foil LD, et al. Surveillance of tick-borne pathogens present in ticks (Acari: Ixodidae) removed from companion animals in Louisiana, USA. *J Med Entomol.* 2025;62(1):181-8.
32. Xiong X, Geden CJ, Tan Y, Zhang Y, Zhang D, Werren JH, et al. Genome Structure, Evolution, and Host Shift of *Nosema*. *Biology (Basel).* 2024;13(11).
33. Zhang X, Li J, Gerry AC. Seasonal change and influence of environmental variables on host-seeking activity of the biting midge *Culicoides sonorensis* at a southern California dairy, USA. *Parasit Vectors.* 2024;17(1):212.

Extension Publications

- Fitzpatrick, Raymond and N.C. Hinkle. 2024. "Animals: Fly Control in Livestock Facilities," "Beef Cattle External Parasite and Grub Control," "Dairy Cattle External Parasite and Cattle Grub Control," "Cattle Ear Tags," "Swine – External Parasite Control," "Horses – External Parasite Control," "Fly Control in Horse Facilities," "Sheep and Goats – External Parasite Control," "Poultry – Fly Control," "Poultry External Parasite Control," and "Poultry House Pest Control." *Georgia Pest Management Handbook*, 2024 Commercial Edition pp. 51-100.
- Hinkle, N.C. 2024. "Pets (Companion Animals) External Parasite Control" and "Flea Control Products." *Georgia Pest Management Handbook*, 2024 Home & Garden Edition, pp. 22-26.