**Appendix 1**

**Peer-reviewed publications in 2023**

1. Angulo J, Yang M, Rovira A, Davies PR, Torremorell M (2023). Infection dynamics and incidence of wild-type porcine reproductive and respiratory syndrome virus in growing pig herds in the U.S. Midwest. *Prev Vet Med*; 217:105976. doi: 10.1016/j.prevetmed.2023.105976. Epub 2023 Jul 13. PMID: 37467679.
2. Balestreri, C., Schroeder, D.C., Sampedro, F. et al. (2023). Unexpected thermal stability of two enveloped megaviruses, Emiliania huxleyi virus and African swine fever virus, as measured by viability PCR, PREPRINT (Version 1) available at *Research Square*. <https://doi.org/10.21203/rs.3.rs-2508557/v1>.
3. Blomme AK, Ackerman TL, Jones CK, Gebhardt JT, Woodworth JC, Paulk CB, Pogranichniy RM. Isolation of porcine reproductive and respiratory syndrome virus from feed ingredients and complete feed, with subsequent RT-qPCR analysis. J Vet Diagn Invest, 2023 Jul 11.
4. Boyd A, Luo Y, Kustas B, Fukagawa N, Mattoo A, Crow W, Pachepsky Y, Kim M, Lillehoj H, Van Tassell C, Zhang H, Blomberg L, Dubey J, Lunney J. 2023. Cross-Cutting Concepts to Transform Agricultural Research. Front. Sustain. Food Syst. 7:1242665. doi: 10.3389/fsufs.2023.1242665.
5. Caserta LC, Zhang J, Piñeyro P, Diel DG. Rapid genotyping of porcine reproductive and respiratory syndrome virus (PRRSV) using MinION nanopore sequencing. PloS one. 2023;18:e0282767. **(ISU-Cornell University)**
6. Chase-Topping M, Plastow G, Dekkers J, Li Y, Fang Y, Gerdts V, Van Kessel J, Harding J, Opriessnig T, Doeschl-Wilson A. 2023. The WUR0000125 PRRS resilience SNP had no apparent effect on pigs' infectivity and susceptibility in a novel transmission trial. Genet Sel Evol. 55 (1):51.
7. Comparison of Two Diagnostic Assays for the Detection of Serum Neutralizing Antibody to Porcine Epidemic Diarrhea Virus. Brown J, Poonsuk K, Cheng TY, Rademacher C, Kalkwarf E, Tian L, McKeen LA, Wang C, Gimenez-Lirola L, Baum D, Karriker LA. **(ISU-UNL)**
8. Dawson HD, Chen CT, Smith AD, Lunney JK. 2023. Verification of the Significance of Porcine and Human Genome Similarities: Use of Manual Assembly and Analyses. Submitted.
9. Dee, N., K. Havas, A. Shah, A. Singrey, G. Spronk, M. Niederwerder, E. Nelson, S. Dee. Sept. 2022. Evaluating the effect of temperature on viral survival in plant-based feed during storage. Transboundary and Emerging Diseases. <https://doi.org/10.1111/tbed.14546>
10. Dee, S., T. Clement, E. Nelson. 2023. Transmission of porcine reproductive and respiratory syndrome virus in domestic pigs via oral ingestion of feed material. JAVMA. DOI: <https://doi.org/10.2460/javma.23.08.0447>.
11. Development of in ovo-compatible NS1-truncated live attenuated influenza vaccines by modulation of hemagglutinin cleavage and polymerase acidic X frameshifting sites. Ghorbani A, Ngunjiri JM, Edward C Abundo M, Pantin-Jackwood M, Kenney SP, Lee CW. Vaccine. 2023 Mar 10;41(11):1848-1858. doi: 10.1016/j.vaccine.2023.01.018. Epub 2023 Jan 18. PMID: 36669965
12. Diversity and Complexity of Internally Deleted Viral Genomes in Influenza A Virus Subpopulations with Enhanced Interferon-Inducing Phenotypes. Ghorbani A, Ngunjiri JM, Rendon G, Brooke CB, Kenney SP, Lee CW. Viruses. 2023 Oct 17;15(10):2107. doi: 10.3390/v15102107.
13. do Nascimento, G.M, D. Bugybayeva, V. Patil, J. Schrock, G. Yadaigiri, G.J. Renukaradhya and Diel, D.G (2023). An Orf-Virus (ORFV)-Based Vector Expressing a Consensus H1 Hemagglutinin Provides Protection against Diverse Swine Influenza Viruses. Viruses, 15(4):994. PMID: 37112974.
14. Dynamics of Infection of Atypical Porcine Pestivirus in Commercial Pigs from Birth to Market: A Longitudinal Study. Buckley AC, Mora-Díaz JC, Magtoto RL, Hulzen AV, Ferreyra FM, Falkenberg SM, Giménez-Lirola LG, Arruda BL. Viruses. 2023 Aug 18;15(8):1767. **(ISU-KSU-USDA)**
15. Editorial on the Research Topic “Rising stars in veterinary epidemiology and economics 2022: Porcine
16. Effect of extrinsic factors on the detection of PRRSV and a porcine-specific internal sample control in serum, oral fluid, and fecal specimens tested by RT-rtPCR. Munguía-Ramírez B, Armenta-Leyva B, Henao-Díaz A, Cheng TY, Zhang J, Rawal G, Ye F, Giménez-Lirola L, Zimmerman JJ. **(ISU-OSU)**
17. F. Hernandez-Franco, G. Yadagiri, V. Patil, D. Bugybayeva, S. Dolatyabi, M.K. Singh, R. Suresh, F. Akter, J. Schrock, G.J. Renukaradhya, and Harm HogenEsch (2023). Intradermal vaccination against influenza with a STING-targeted nanoparticle combination adjuvant induces superior cross-protective humoral immunity in swine compared with intranasal and intramuscular immunization. Vaccines (In press).
18. Friedrichs, V., Reicks, D., Hasenfuss, T., Gerstenkorn, E., Zimmerman, J.J., Nelson, E.A., Carrau, T., Deutschmann, P., Sehl-Ewert, J., Roszyk, H., Beer, M., Christopher-Hennings, J., Blome, S. 2023. Artificial insemination as alternative transmission route for African Swine Fever Virus. Pathogens, 11, 1539. <https://doi.org/10.3390/pathogens11121539>.
19. Hailstock T, Dai C, Aquino J, Walker KE, Chick S, Manirarora JN, Suresh R, Patil V, Renukaradhya GJ, Sullivan YB, LaBresh J, Lunney J. 2023. Production and Characterization of anti-porcine CXCL10 monoclonal antibodies. Cytokine. In Press.
20. I. A. D. Paploski, A. G. Arruda, K. VanderWaal. 2023. Editorial: Porcine Reproductive and Respiratory Syndrome Virus: Epidemiology, Immunology, and Virology. Frontiers in Veterinary Science. 10:1111668. <https://doi.org/10.3389/fvets.2023.1111668>
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22. Katwal, P., E. Nelson, M. Hildreth, S. Li, X. Wang. 2022. Role of Zinc metalloprotease (ZMPSTE24) on Porcine Reproductive and Respiratory Syndrome Virus (PRRSV) replication *in vitro*. Archives of Virology. <https://doi.org/10.1007/s00705-022-05529-0>.
23. Khan RR, Ibrahim H, Rawal G, Zhang J, Lu M, Dong L. (2023). Multichannel microfluidic virus sensor for rapid detection of respiratory viruses using virus-imprinted polymer for digital livestock farming. *Sensors and Actuators B: Chemical*. 389: 133920.
24. Kikuti, M.; Vilalta, C.; Sanhueza, J.; *et al.* (2023) Porcine Reproductive and Respiratory Syndrome (PRRSV2) Viral Diversity within a Farrow-to-Wean Farm Cohort Study. *Viruses*, 15, 1837. <https://doi.org/10.3390/v15091837>
25. Kumari S, Chaudhari J, Huang Q, Gauger P, De Almeida MN, Ly H, Liang Y, Vu HLX. 2023. Assessment of Immune Responses to a Trivalent Pichinde Virus-Vectored Vaccine Expressing Hemagglutinin Genes from Three Co-Circulating Influenza A Virus Subtypes in Pigs. *Vaccines* 2023, 11(12), 1806; <https://doi.org/10.3390/vaccines11121806>.
26. Lack of SARS-CoV-2 Viral RNA Detection among a Convenience Sampling of Ohio Wildlife, Companion, and Agricultural Animals, 2020–2021. Margot Ehrlich, Christopher Madden, Dillon S. McBride, Jacqueline M. Nolting, Devra Huey, Scott Kenney, Qiuhong Wang, Linda J. Saif, Anastasia Vlasova, Patricia Dennis, Dusty Lombardi, Stormy Gibson, Alexis McLaine, Sarah Lauterbach, Page Yaxley, Jenessa A. Winston, Dubraska Diaz-Campos, Risa Pesapane, Mark Flint, Jaylene FlintRandy Junge, Seth A. Faith, Andrew S. Bowman, Vanessa L. Hale. Animals 2023, 13(16), 2554; <https://doi.org/10.3390/ani13162554>
27. Lopez-Moreno G, Culhane MR, Davies P, *et al.* (2023). Farm management practices associated with influenza A virus contamination of people working in Midwestern United States swine farms. *Porcine Health Manag*, 15;9(1):13. doi: 10.1186/s40813-023-00304-2
28. Luong HQ, Lai HTL, Truong LQ, Nguyen TN, Vu HD, Nguyen HT, Nguyen LT, Pham TH, McVey DS, Vu HLX. 2023. Comparative Analysis of Swine Antibody Responses following Vaccination with Live-Attenuated and Killed African Swine Fever Virus Vaccines. *Vaccines. 2023; 11(11): 1687.* [*PMID: 38006019.*](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10674706/)
29. Magalhães ES, Zhang D, Wang C, Thomas P, Moura CAA, Trevisan G, Holtkamp DJ, Rademacher CJ, Silva GS, Linhares DCL, 2023. Comparing forecasting models for predicting nursery mortality under field conditions using regression and machine learning algorithms. Smart Agric. Technol. 5, 100280.
30. Markin A, Zanella GC, Arendsee ZW, Zhang J, Krueger KM, Gauger PC, Vincent-Baker AL, Anderson TK. (2023). Reverse-zoonoses of 2009 H1N1 pandemic influenza A viruses and evolution in United States swine results in viruses with zoonotic potential. *PLoS Pathogens*. 19(7): e1011476.
31. Metz GE, Serena MS, Pineyro PE, Cheetham S, Giovambattista G. Editorial: The role of genetics studies in the discovery of new viruses and in the analysis of pathogeny of viral infections. Front Genet. 2023;14:1240812. **(ISU-Universidad Nacional de la Plata, Argentina)**
32. Mil-Homens M, Aljets E, Paiva R, Machado I, Cezar G, Osemeke O, Moraes D, Jayraman S, Brinning M, Silva A, Tidgren L, Durflinger M, Wilhelm M, Flores V, La Frenier J, Linhares D, Zhang J, Holtkamp D, Silva G. (2023). Assessment of temperature and time on the survivability of porcine reproductive and respiratory syndrome virus (PRRSV) and porcine epidemic diarrhea virus (PEDV) on experimentally contaminated surfaces. *PLoS One*.
33. Moraes DCA, Baker ALV, Wang X, Zhu Z, Berg E, Trevisan G, Zhang J, Jayaraman S, Linhares DCL, Gauger PCG, Silva GS. Veterinarian perceptions and practices in prevention and control of influenza virus in the Midwest United States swine farms. Front Vet Sci. 2023; 10:1089132.
34. More-Bayona, J., M. Ramirez-Velasquez, B. Hause, E. Nelson, H. Rivera-Geronimo. Sept. 2022. First isolation and whole genome characterization of Porcine Deltacoronavirus from pigs in Peru. Transboundary and Emerging Diseases. [https://doi.org/10.22541/au.163709067.78952571/v1](https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fdoi.org%2F10.22541%2Fau.163709067.78952571%2Fv1&data=04%7C01%7Ceric.nelson%40sdstate.edu%7Caf6757dd38e544257bb208d9f293cbb4%7C1bbefbe9cb9e4a62bd10a2a60b1a28c5%7C0%7C0%7C637807540338180449%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=T5Uwt355g3Xm4Mh1xPHz%2FVOlBRvhddlMtq1vqF7SYeU%3D&reserved=0)
35. Nguyen TN, Kumari S, Sillman S, Chaudhari J, Lai DC, Vu HLX. 2023. A Single-Dose Intramuscular Immunization of Pigs with Lipid Nanoparticle DNA Vaccines Based on the Hemagglutinin Antigen Confers Complete Protection against Challenge Infection with the Homologous Influenza Virus Strain. *Vaccines. 2023; 11(10):1596.* [PMID: 37896997](https://www.mdpi.com/2076-393X/11/10/1596).
36. Normalizing real-time PCR results in routine testing. Armenta-Leyva B, Munguía-Ramírez B, Cheng TY, Ye F, Henao-Díaz A, Giménez-Lirola LG, Zimmerman J. J Vet Diagn Invest. 2023 Nov 2:10406387231206080. **(ISU-OSU)**
37. Osemeke OH, Cezar GC, Paiva RC, Moraes DCA, Machado IF, Magalhaes E, Silva A, Mil-Homens MP, Peng L, Jayaraman S, Trevisan G, Silva GS, Gauger PC, Linhares DCL. A cross-sectional assessment of PRRSV nucleic acid detection by RT-qPCR in serum, ear vein blood swabs, nasal swabs, and oral swabs from weaning-age pigs under field conditions. Front. Vet. Sci. 2023 Aug 10;10:1200376.
38. Osemeke OH, De Freitas Costa E, Weide V, Jayaraman S, Silva GS, Linhares DCL. In-silico characterization of the relationship between the porcine reproductive and respiratory syndrome virus prevalence at the piglet and litter levels in a farrowing room. Porcine Health Manag. 2023 Apr 13;9(1):14. doi: 10.1186/s40813-023-00309-x.
39. Osemeke OH, Vankley N, Lefreve C, Peterson C, Linhares DCL. Evaluating oral swab samples for PRRSV surveillance in weaning-age pigs under field conditions. Front Vet Sci. 2023; 10: 1072682.
40. Ouyang H, Wang L, Sapkota D, *et al.* (2023). Control technologies to prevent aerosol-based disease transmission in animal agriculture production settings: a review of established and emerging approaches. *Front. Vet. Sci., Sec. Veterinary Epidemiology and Economics*. Vol 10 – 2023, https://doi.org/10.3389/fvets.2023.1291312
41. Paiva RC, Moura CA, Thomas P, Haber B, Greiner L, Rademacher C, Silva A, Trevisan G, Linhares DCL, Silva GS. Risk factors associated with sow mortality in breeding herds under one production system in the Midwestern United States. Prev Vet Med. 2023; 213:105883.
42. Petro-Turnquist E, Pekarek M, Jeanjaquet N, Wooledge C, Steffen D, Vu H, Weaver EA. 2023. Adenoviral-vectored epigraph vaccine elicits robust, durable, and protective immunity against H3 influenza A virus in swine. *Front Immunol 14:1143451*.  [PMID: 37256131.](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10225514/)
43. Quang Lam Truong, Lihua Wang, Tuan Anh Nguyen, Hoa Thi Nguyen, Son Danh Tran, Anh Thi Vu, Anh Dao Le, Van-Giap Nguyen, Phuong Thi Hoang, Yen Thi Nguyen, Thi-Luyen Le, Thang Nguyen Van, Thi-My-Le Huynh, Huong T.L. Lai, Rachel Madera, Yuzhen Li, Jishu Shi, Lan Thi Nguyen. 2023. Cell-Adapted Live-Attenuated Vaccine Candidate Protects Pigs against the Homologous Strain VNUA-ASFV-05L1, a Representative Strain of the Contemporary Pandemic African Swine Fever Virus. Viruses 2023, 15, 2089. <https://doi.org/10.3390/v15102089>
44. Rawal G, Almeida M, Gauger PC, Zimmerman JJ, Ye F, Rademacher CJ, Armenta-Leyva B, Munguía-Ramírez B, Tarasiuk G, Schumacher LL, Aljets EK, Thomas JT, Zhu J, Trexel JB, Zhang J. (2023). *In vivo* and *in vitro* characterization of the recently emergent PRRSV 1-4-4 L1C variant (L1C.5) in comparison with other PRRSV-2 lineage 1 isolates. *Viruses*. 15 (11): 2233.
45. Rawal G, Krueger KM, Yim-im W, Li G, Gauger PC, Almeida M, Aljets EK, Zhang J. (2023). Development, evaluation, and clinical application of PRRSV-2 vaccine-like real-time RT-PCR assays. *Viruses*. 15 (11): 2240.
46. Rawal G, Yim-im W, Aljets E, Halbur PG, Zhang J, Opriessnig T. (2023). Porcine respiratory coronavirus (PRCV): Isolation and characterization of a variant PRCV from USA pigs. *Pathogens*. 12: 1097.
47. Rawal G, Zhang J, Halbur PG, Gauger PC, Wang C, Opriessnig T. (2023). Experimental infection of pigs with a traditional or a variant porcine respiratory coronavirus (PRCV) strain and impact on subsequent influenza A infection. *Pathogens*. 12: 1031.
48. Reproductive and Respiratory Syndrome Virus: Epidemiology, immunology and virology”
49. Sanhueza, J. M., Schwartz, M., Corzo, C. A., *et al*. (2023). Assessing the role of sow parity on PRRSv detection by RT-qPCR through weekly processing fluids monitoring in breeding herds. *Preventive Veterinary Medicine,* 213, 105854.doi: <https://doi.org/10.1016/j.prevetmed.2023.105854>
50. SARS-CoV-2 Serological Investigation of White-Tailed Deer in Northeastern Ohio. Boley PA, Dennis PM, Faraone JN, Xu J, Liu M, Niu X, Gibson S, Hale V, Wang Q, Liu SL, Saif LJ, Kenney SP. Viruses. 2023 Jul 22;15(7):1603. doi: 10.3390/v15071603.
51. Shurson, G.C.; Urriola, P.E.; Schroeder, D.C. (2023) Biosecurity and Mitigation Strategies to Control Swine Viruses in Feed Ingredients and Complete Feeds. *Animals,* 13, 2375. https://doi.org/10.3390/ani13142375
52. Sreenivasan, C., R. Liu, R. Gao, Y. Guo, B. Hause, M. Thomas, A. Naveed, T. Clement, D. Rausch, J. Christopher-Hennings, E. Nelson, J. Druce, M. Zhao, R. Kaushik, Q. Li, Z. Sheng, D. Wang, F. Li. 2023. Influenza C and D Viruses Demonstrated a Differential Respiratory Tissue Tropism in a Comparative Pathogenesis Study in Guinea Pigs. [Journal of Virology 167 e00356-23](https://www.x-mol.net/paperList/1/440). doi:10.1128/jvi.00356-23.
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55. Su CM, Du Y, Rowland RRR, Wang Q, Yoo D. Reprogramming viral immune evasion for a rational design of next-generation vaccines for RNA viruses. Front Immunol. 2023 Apr 17;14:1172000.
56. Tabynov, K, M. Solomadin, N. Turebekov, M. Babayeva, G. Fomin, G. Yadagiri, R. Sankar, T. Yerubayev, T. Yespolov, N. Petrovsky, G. J. Renukaradhya and K. Tabynov (2023). SARS-CoV-2 Spike receptor-binding domain entrapped in mannose-conjugated chitosan nanoparticle vaccine delivered intranasal elicits local and systemic Th1 and Th2 immune responses in mice and antiviral efficacy in Syrian hamsters. Scientific Reports, 13(1):12115, PMID: 37495639.
57. Tapia R, Mena J, García V, *et al.* (2023) Cross-protection of commercial vaccines against Chilean swine influenza A virus using the guinea pig model as a surrogate. Front. Vet. Sci. 10:1245278. doi: 10.3389/fvets.2023.1245278
58. Trevisan G, Magstadt D, Woods A, Sparks J, Zeller M, Li G, Krueger K, Saxena A, Zhang J, Gauger P. (2023). A recombinant porcine reproductive and respiratory syndrome virus (PRRSV-2) field strain derived from two PRRSV-2 modified live virus vaccines. *Frontiers in Veterinary Science*.10: 1149293.
59. V. Patil, J.F Hernandez-Franco, G. Yadagiri, D. Bugybayeva, S. Dolatyabi, N. Feliciano-Ruiz, J. Schrock, R. Suresh, J. Hanson, Hadi Yassine, H. HogenEsch, and G.J Renukaradhya (2023). Characterization of the efficacy of a split swine influenza A virus nasal vaccine formulated with a nanoparticle/STING agonist combination adjuvant in conventional pigs. Vaccines (In press).
60. Van Goor A, Pasternak JA, Walugembe M, Chehab N, Hamonic G, Dekkers JCM, Harding JCS and Lunney JK. “Genome wide association study of thyroid hormone levels following challenge with porcine reproductive and respiratory syndrome virus” Front. Genet. 2023 14: 1110463. DOI: 10.3389/fgene.2023.1110463
61. Walker LR, Vu HL, Montooth KL, Ciobanu DC. 2023. Functional and evolutionary analysis of host Synaptogyrin-2 in porcine circovirus type 2 susceptibility. *PLoS Genet 19:e1011029*. [PMID: 38011217](https://journals.plos.org/plosgenetics/article?id=10.1371/journal.pgen.1011029)**.**
62. Wang M, Yu Y, Wu J, Wang S, Giménez-Lirola LG, Piñeyro P, et al. Genetic and In Vitro Characteristics of a Porcine Circovirus Type 3 Isolate from Northeast China. Veterinary Sciences. 2023;10:517. **(ISU-Chinese Academy of Agricultural Sciences)**
63. Wang, L., R. Madera, Y. Li, D.P. Gladue, M.V. Borca, M.T. McIntosh, and **J. Shi**. 2023. Development of Porcine Monoclonal Antibodies with In Vitro Neutralizing Activity against Classical Swine Fever Virus from C-Strain E2-Specific Single B Cells. Viruses 2023, 15(4), 863; <https://doi.org/10.3390/v15040863>
64. Welch M, Krueger K, Zhang J, Neveau M, Piñeyro P, Magstadt D, Main R, Gauger P. (2023). Characterization of two porcine parainfluenza virus 1 isolates and human parainfluenza virus 1 infection in weaned nursery pigs. *Veterinary Sciences*. 10(1): 18.
65. Welch M, Krueger K, Zhang J, Piñeyro P, Patterson A, Gauger P. (2023). Pathogenesis of an experimental coinfection of porcine parainfluenza virus 1 and influenza A virus in commercial nursery swine. *Veterinary Microbiology*. 285: 109850.
66. Yim-im W, Anderson T, Paploski I, VanderWaal K, Gauger P, Krueger K, Shi M, Main R, Zhang J. (2023). Refining PRRSV-2 genetic classification based on global ORF5 sequences and investigation of geographic distribution and temporal changes. *Microbiology Spectrum*. e0291623.
67. Yu, J.; C. Sreenivasan; Z. Sheng; S. Zhai; J. Wollman; S. Luo; C. Huang; R. Gao; Z. Wang; R. Kaushik; J. Christopher-Hennings; E. Nelson; B. Hause; D. Wang, F. Li. 2023. A Recombinant Chimeric Influenza Virus Vaccine Expressing the Consensus H3 Hemagglutinin Elicits Broad Hemagglutination Inhibition Antibodies against Divergent Swine H3N2 Influenza Viruses. Vaccine. doi: 10.1016/j.vaccine. 2023.09.007.
68. Yuan F, Schieber T, Stein TL, Sestak RM, Olson CJ, Chen C, Huber VC, Lechtenberg K, McGill J, Fang Y. 2023. Establish a Pregnant Sow-Neonate Model to Assess Maternal Immunity of a Candidate Influenza Vaccine. Vaccines (Basel). 2023 Mar 14;11(3):646.
69. Zhu J-H, Tai C-H, Ping C-F, Chou P-H, Tsai Y-L, Chung S, Bradner L, Pentella M, Gauger P, Zhang J. (2023). Evaluation of a sample-to-result POCKIT Central SARS-CoV-2 PCR system. *Diagnostics*. 13: 2219.

**Appendix 2**

**Abstracts and Proceedings publications in 2023**

1. Aftab, S., E. Nelson, X. Wang. 2023. Overexpression of IFITM3 induces autophagy in H1299 cells and enhances SVA replication. Conference of Research Workers in Animal Diseases. Chicago, IL. January 21-24, 2023.
2. Aljets E, Trevisan G, Gauger P, Zhang J. (2023). Frequency of porcine rotaviruses A, B, and C detection in U.S. swine based on PCR data from 2015 to 2022. *The* 66th *Annual Meeting of American Association of Veterinary Laboratory Diagnosticians.* National Harbor, Maryland, USA. Oct 12 – 18, 2023. Page 100.
3. Aljets E, Trevisan G, Gauger P, Zhang J. (2023). Frequency of porcine rotaviruses A, B, C detection in U.S. swine based on PCR data from 2015 to 2022. *The 2023 ISU James D. McKean Swine Disease Conference*. Ames, Iowa, USA. Jun 28, 2023. Pages 29-31.
4. Allison G, Gauger P, Zhang J, Lawrence P. (2023). Time to PRRSV negative response in live virus inoculated gilts injected with Ivomec. *The 54th American Association of Swine Veterinarians Annual Meeting*. Aurora, CO, USA. Mar 4 – 7, 2023. Pages 182-185.
5. Armenta-Leyva B, Munguia-Ramirez B, Cheng T-Y, Henao-Diaz A, Doolittle K, Zimmerman S, Giménez-Lirola LG, Zimmerman J. January 2023. Controlling for normal variation in PRRSV RT-qPCR testing. 2023 Iowa Pork Congress, Des Moines, IA. **(ISU-OSU)**
6. Armenta-Leyva B, Munguía-Ramírez B, Cheng T-Y, Henao-Diaz A, Doolittle K, Zimmerman S, Giménez-Lirola L, Egli C, Troch J, Zimmerman J. June 2023. Controlling for normal variation in PRRSV RT-qPCR testing (ECqs). Proc International Symposium of the World Association of Veterinary Laboratory Diagnosticians. Lyon, France. **(ISU-OSU)**
7. Armenta-Leyva B, Munguía-Ramírez B, Cheng T-Y, Ye F, Henao-Diaz A, Doolittle K, Zimmerman S, Giménez-Lirola L, Zimmerman J. September 2023. What is “normalization” and why should we normalize diagnostic PCR results? Allen D. Leman Swine Conference. Saint Paul, Minnesota, p. 14. **(ISU-OSU)**
8. Armenta-Leyva B, Munguía-Ramírez B, Cheng T-Y, Ye F, Henao-Diaz A, Doolittle K, Zimmerman S, Giménez-Lirola L, Zimmerman J. August 2023. Normalization of PRRSV RT-qPCR results for serum and oral fluids (ECqs). Proc 10th Asian Pig Veterinary Society Congress. Taipei, Taiwan, p. 306. **(ISU-OSU)**
9. Armenta-Leyva B, Munguía-Ramírez B, Cheng TY, Ye F, Henao-Diaz A, Giménez-Lirola L, Zimmerman J. October 2023. Why and how to normalize diagnostic PCR results using a commercial PRRSV RT-qPCR. Proc 66th Ann Meet American Association of Veterinary Laboratory Diagnosticians, National Harbor, Maryland, p. 19. **(ISU-OSU)**
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