

Curriculum vitae
Samantha M. Wisely

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Research Interests: disease ecology, agro-ecology, One Health

Education:

Ph.D. Zoology and Physiology, University of Wyoming, August 2001. Dissertation: Conservation genetics of the black-footed ferret.

M.S. Wildlife Ecology, Humboldt State University, August 1997. Thesis: Comparative physiology, ecology and behavior in two species of plethodontid salamander.

B.A. Ecology, Evolution and Animal Behavior, University of California, San Diego. June 1991.

Appointments:

2019-present **Professor**, Dept. of Wildlife Ecology and Conservation, University of Florida
2011-2019 **Associate Professor**, Dept. of Wildlife Ecology and Conservation, University of Florida
2015-present **Director**, UF IFAS Cervidae Health Research Initiative
2013-2018 **Affiliate Associate Curator**, Dept. of Mammalogy, Florida Museum of Natural History
2013-present **Research Affiliate**, Emerging Pathogens Institute, University of Florida
2015-present **Affiliate Faculty**, Dept. of Environmental and Global Health, University of Florida
2012-2015 **Associate Director**, Ordway Swisher Biological Station, University of Florida
2010-2011 **Associate Professor**, Division of Biology, Kansas State University
2004-2012 **Research Associate**, National Zoological Park, Smithsonian Institution
2004- 2010 **Assistant Professor**, Division of Biology, Kansas State University
2002-2003 **Postdoctoral Associate**, National Zoological Park, Smithsonian Institution
2001-2002 **Smithsonian Postdoctoral Fellow**, National Museum of Natural History
1997-2001 **Research Assistant**, University of Wyoming
1993-1997 **Teaching Assistant**, Humboldt State University

Publications: 128 publications in the peer-reviewed literature. h-index of 35, i10-index of 71, M index of 1.7. ^G Graduate Student, ^U Undergraduate Student for whom I am the primary advisor

Torhorst, C., Bhosale, C., White, Z., Beatty, N., Wisely, S.M. 2023. Identification of the parasite, *Trypanosoma cruzi*, in multiple tissues of epidemiological significance in the Virginia opossum (*Didelphis virginiana*): Implications for environmental and vertical transmission routes. PLoS Neglected Tropical Diseases <https://doi.org/10.1371/journal.pntd.0010974>

Austin, J.D., Gore, J., Hargrove, J., Braun de Torrez, E., Carneiro, C. Ridgely, F. Wisely, S.M. 2022. Strong population genetic structure and cryptic diversity in the Florida bonneted bat (*Eumops floridanus*). Conservation Genetics 23:495–512. <https://doi.org/10.1007/s10592-022-01432-y>

Stephenson, C. Coker, E., Wisely, S.M., Liang, S., Dinglasan, R., Lednicky, J. 2022. Imported dengue case numbers and local weather pat-terns impact dengue virus transmission in Florida, USA. Insects 13:163. <https://doi.org/10.3390/insects13020163>

Rodrigues, T.C.S., Viadanna, P.V.O., Subramaniam, K., Hawkins, I.K., Jeon, A.B., Loeb, J.C., Krauer, J.M.C., Lednicky, J.A., Wisely, S.M., Waltzek, T.B. In revision. Characterization of a Novel

- Reassortant Epizootic hemorrhagic disease virus serotype 6 strain isolated from diseased white-tailed deer (*Odocoileus virginianus*) on a Florida farm. *Viruses* 14: 1012 <https://doi.org/10.3390/v14051012>
- Ledger, K.J., Innocent, H., Lukhele, S.M., Dorleans, R., Wisely, S.M. 2022. Entomological risk of African tick-bite fever (*Rickettsia africae*) in southern African savannas. *PLoS Neglected Tropical Diseases* 16(5): e0010437. <https://doi.org/10.1371/journal.pntd.0010437>
- Kessler, W.H., De Jesus, C. Wisely, S.M., Glass, G.E. 2022. Ensemble models for tick vectors: standard surveys compared with convenience samples. *Diseases* 10: 32 <https://doi.org/10.3390/diseases10020032>
- Beatty, N.L., Forsyth, C.J., Burkett-Cadena, N., Wisely, S.M. 2022. Our Current Understanding of Chagas Disease and *Trypanosoma cruzi* Infection in the State of Florida — an Update on Research in this Region of the USA. *Current Tropical Medicine Reports*. <https://doi.org/10.1007/s40475-022-00261-w>
- Cunningham, M.W., Oronato, D.P., Leone, E.H., Sayler, K.A., Conley, K.L., Mead, D.G., Bradley, J.A.C., Maes, R.K., Kiupel, M., Shindle, D.S., Wisely, S.M., Subramaniam, K., Wise, A., Clemons, B.C., Cusack, L.M., Jansen, D., McBride, R., Hernández, F.A., Waltzek, T.B. 2021. Pseudorabies (Aujeszky's Disease) is a significant mortality factor in the Florida panther (*Puma concolor coryi*). *Journal of Wildlife Diseases* 57:784-798. <https://doi.org/10.7589/JWD-D-20-00119>
- Segelbacher, G., Bosse, M., Burger, P., Galbusera, P., Godoy, J., Helsen, P., Hvilsom, C., Iacolina, L., Kahric, A., Manfrin, C., Nonic, M., Thizy, D, Tsvetkov, I., Velickovic, N., Vila, C., Wisely, S., Buzan, E. 2021. New developments in the field of genomic technologies and their relevance to conservation management. *Conservation Genetics*. <https://doi.org/10.1007/s10592-021-01415-5>
- Beatty, N.L., White, Z.S., Bhosale, C.R.^U, Wilson, K., Cannella, A.P., Stenn, T., Burkett-Cadena, N., Wisely, S.M. 2021. Anaphylactic reactions due to *Triatoma protracta* (Hemiptera, Reduviidae, Triatominae) and invasion into a home in northern California, USA. *Insects* 12: 1018. <https://doi.org/10.3390/insects12111018>
- Aristizabal-Henao, J.J., Brown, H.J., Griffin, E.K., Ostfeld, R.S., Oggenfuss, K., Parker, B.M.^G, Wisely, S.M., Bowden, J.A. 2021. Hematophagous Arthropods as Novel Sentinels to Monitor Environmental Levels of Per- and Polyfluoroalkyl Substances (PFAS). *Environmental Science: Processes Impacts*. 10.1039/D1EM00209K
- De Jesus, C.E., Bhosale, C.R., Wilson, K.N., White, Z.S., Wisely, S.M. 2021. Reptile Host-Associations of *Ixodes scapularis* in Florida and Implications for *Borrelia* Ecology. *Pathogens* 10: 999. <https://doi.org/10.3390/pathogens10080999>
- Ledger, K., Beatty, L., Wisely, S.M. 2021. Survey of ticks and tick-borne rickettsial and protozoan pathogens in Eswatini. *Pathogens* 10:1043. <https://doi.org/10.3390/pathogens10081043>
- Cottingham, S.L., White, Z.S., Wisely, S.M., Campos-Krauer, J.M. 2021. A mortality-based description of hemorrhagic disease incidence in farmed white-tailed deer (*Odocoileus virginianus*) in Florida, USA. *Viruses* 13:1443. <https://doi.org/10.3390/v13081443>
- Viadanna, P.H.O., Rodrigues, T.C.S., Subramaniam, K., Campos Krauer, J.M., Lednicky, J.A., Loeb, J.C., Wisely, S.M., Waltzek, T.B. 2021. Genome sequence of a novel strain of Yunnan orbivirus isolated from a dead Florida white-tailed deer (*Odocoileus virginianus*). *Microbial Resources Announcements* 10: e00168-21. <https://doi.org/10.1128/MRA.00168-21>
- Lima, K.A., Stevens, N., Wisely, S.M., Fletcher, R.J., Monadjem, A., Austin, J.D., Mahlaba, T., McCleery, R.A. 2021. Landscape heterogeneity and woody encroachment decrease mesocarnivore scavenging in a savanna agro-ecosystem. *Rangeland Ecology and Management* 78:104-111. <https://doi.org/10.1016/j.rama.2021.06.003>
- Dinh, E.T.N., Gomez, J.P., Orange, J.P., Morris, M., McGregor, B.L., Blosser, E.M., Burkett-Cadena, N., Wisely, S.M., Blackburn, J.K. 2021. Modeling abundance of *Culicoides stellifer*, a candidate Orbivirus vector, indicates nonrandom hemorrhagic disease risk for white-tailed deer (*Odocoileus virginianus*). *Viruses* 13:1328 <https://doi.org/10.3390/v13071328>

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- McGregor, B.L., Erram, D., Alto, B.W., Wisely, S.M., Burkett-Cadena, N.D. 2021. Vector competence of Florida *Culicoides insignis* (Diptera: Ceratopogonidae) for Epizootic Hemorrhagic Disease Virus Serotype 2. *Viruses* 13: 410. <https://doi.org/10.3390/v13030410>
- Dinh, E.T.N., Orange, J.P., Shuman, R.M., Wisely, S.M., Blackburn, J.K. 2021. Resource selection by wild and ranched white-tailed deer (*Odocoileus virginianus*) during the epizootic hemorrhagic disease transmission season in Florida. *Animals* 11: 211. <https://doi.org/10.3390/ani11010211>
- Hernández, F.A., Carr, A.N., Milleson, M.P., Merrill, H.R., Avery, M.L., Parker, B.M., Pylant, C.L., Austin, J.D., and Wisely, S.M. 2021. Dispersal and land cover influence pathogen exposure in invasive wild pigs (*Sus scrofa*) in Florida (U.S.). *EcoHealth*. <https://doi.org/10.1007/s10393-020-01508-6>
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- Rodrigues, T.C.S., Lednicky, J.A., Loeb, J.C., Campos Krauer, J.M., Wisely, S.M., Waltzek, T.B., Subramanian, K. 2020. Genome Sequencing of a Novel CHerI orbivirus 3 Isolated from a Dead White-tailed Deer (*Odocoileus virginianus*) in Florida, USA. *Microbiology Resource Announcements* 9:e00523-20. <https://doi.org/10.1128/MRA.00523-20>
- Dinh, E.T.N., Cauvin, A., Orange, J.P., Shuman, R.M., Wisely, S.M., Blackburn, J.K. 2020. Living la Vida T-LoCoH: Site fidelity of Florida ranched and wild white-tailed deer (*Odocoileus virginianus*) during the epizootic hemorrhagic disease virus (EHDV) transmission period. *Movement Ecology* 8:14. <https://doi.org/10.1186/s40462-020-00200-2>
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- McGregor, B.L., Blackburn, J.K., Wisely, S.M., Burkett-Cadena, N.L. 2020. Distance from big game preserves affects Culicoides (Diptera: Ceratopogonidae) community composition, abundance, and diversity. *Journal of Medical Entomology*. <https://doi.org/10.1093/jme/tjaa152>
- Ganser, C.^G, Monadjem, A., McCleery, R.A., Ndlela, T.^U, Wisely, S.M. 2020. Is it best on the nest? Effects of avian life history on haemosporidian parasitism. *International Journal of Parasitology: Parasites and Wildlife* 13:62-71. <https://doi.org/10.1016/j.ijppaw.2020.07.014>
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- Wilber, M., Chinn, S., Beasley, J., Boughton, R., Brook, R., Ditchkoff, S., Fischer, J., Hartley, S., Holstrom, L., Kilgo, J., Lewis, J., Miller, R., Snow, N., Vercauteren, K., Wisely, S., Pepin, K., Webb, C. 2019. Predicting functional responses in agro-ecosystems from animal movement data to improve management of invasive pests. *Ecological Applications* <https://doi.org/10.1002/eap.2015>
- Klarenberg G. and Wisely, S.M. 2019. Evaluation of NEON data to model spatio-temporal tick dynamics in Florida. *Insects* 10:321 <https://doi.org/10.3390/insects10100321>
- Ledger, K.J.^G, Keenan, R.M.^U, Sayler, K.A., Wisely, S.M. 2019. Multi-scale patterns of tick occupancy and abundance across an agricultural landscape in southern Africa. *PLoS One* 14:e0222879. <https://doi.org/10.1371/journal.pone.0222879>
- De Jesus, C.E.^G, Ganser, C., Kessler, W.H., White, Z.S., Bhosale, C.R., Glass, G.E., Wisely, S. M. 2019. Surveillance of tick-borne bacterial pathogens in Florida. *Insects* 10:297 <https://doi.org/10.3390/insects10090297>
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- Ahasan, M.S., Campos, J., Subramaniam, K., Popov, V., Lednicky, J., Loeb, J., Sayler, K., Wisely, S., Waltzek, T. 2019. Isolation and molecular characterization of a novel reassortment Mammalian orthoreovirus type 2 from a Florida white-tailed deer (*Odocoileus virginianus*) fawn. *Virus Research* 270:197642 <https://doi.org/10.1016/j.virusres.2019.197642>
- Cauvin, A.^G, Dinh, E.T.N., Orange, J.P., Shuman, R.M., Blackburn, J.K., Wisely, S.M. 2020. Antibodies to epizootic hemorrhagic disease virus (EHDV) in adjacent farmed and wild Florida white-tailed deer (*Odocoileus virginianus*). *Journal of Wildlife Diseases* 56:208-213 <https://doi.org/10.7589/2019-02-034>
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- Sloyer, K., Burkett-Cadena, N.D., Yang, A., Corn, J.L., Vigil, S.L., McGregor, B.L., Wisely, S.M., Blackburn, J.K. 2019. Ecological niche modeling the potential geographic distribution of four *Culicoides* species of veterinary significance in Florida, USA. *PLoS One* 14(2): e0206648. PMID: 30587789
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- McGregor, B., Stenn, T., Sayler, K., Blosser, E., Blackburn, J., Wisely, S. Burkett-Cadena, N. 2019. Host use patterns of *Culicoides* spp. biting midges at a big game preserve in Florida, USA, and implications for the transmission of Orbiviruses. *Medical and Veterinary Entomology* 33:110-120. <https://doi.org/10.1111/mve.12331>
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- Ahasan, M.S., Campos, J., Subramaniam, K., Lednicky, J., Loeb, J., Sayler, K., Wisely, S., Waltzek, T. 2019. Complete genome sequence of mobuck virus from a Florida white-tailed deer (*Odocoileus virginianus*). *Microbiology Resource Announcements*. 8:e01324-18 <https://doi.org/10.1128/MRA.01324-18>
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Publications in Extension or the Popular Press

- Hostetler, H., Wisely, S., Main, M., Johnson, S., Peinaar, E.F. 2020. How effective and humane are trap-neuter-release (TNR) of feral cats? UW 468, <https://edis.ifas.ufl.edu/uw468>
- Ober, H., Wisely, S.M. 2020. Facts about wildlife diseases: Bats and Coronaviruses. UW 473. <https://edis.ifas.ufl.edu/uw473>
- Tavares, Y. and Wisely S.M. 2020. Facts about wildlife diseases: Ehrlichiosis. UW436. <https://doi.org/10.32473/edis-uw481-2020>
- Hood, K. and Wisely, S.M. 2019. Facts about Wildlife Diseases: Eastern equine encephalitis. WEC408 <https://edis.ifas.ufl.edu/pdf/files/UW/UW45300.pdf>.
- Barber, H.M., Sayler, K.A., Campos, J.M., Wisely, S. M. 2019. Trueperella Q&A. Southeast Tines 7:26, 29.
- Cauvin, A., Moore, S., Sayler, K.A., Wisely, S.M. The Cervidae Health Research Initiative Creates a Deer Farm Diagnostic Network. Southeastern Tines Quarterly Newsletter. April 2017.
- Campos, J.M., Sayler, K.A., and Wisely, S.M. Lumpy Jaw: how to diagnose it and treat it. Southeastern Tines Quarterly Newsletter. October 2017.
- Pothier, K.D., Sayler, K.A., Wisely, S.M. 2016. Trueperella (*Arcanobacterium pyogenes*) in farmed white-tailed deer. UF IFAS EDIS Document [WEC382](#).

- Sayler, K.A., Boyce, C.L., Wisely, S.M. 2016. Facts about Wildlife Diseases: Southern tick-associated rash illness (STARI). UF IFAS EDIS Document [WEC376](#).
- Kaufman, P.E., Wisely, S.M. and Gillett-Kaufman, J.L. 2016. Creature Features: Primary Screwworm *Cochliomyia hominivorax* (Coquerel) (Insecta: Diptera: Calliphoridae). UF IFAS EDIS Publication [EENY-668](#).
- Moore, S.P., Wisely, S.M. 2016. Facts about Wildlife Diseases: Leprosy. UF IFAS EDIS Document [WEC363](#).
- Sayler, K.A., Boyce, C.L., Dow, C., Wisely, S.M. 2016. Facts about Wildlife Diseases: Hemorrhagic Fever in White-tailed Deer. UF EDIS IFAS Document [UF411](#).
- Wisely, S.M., Ober, H.K. 2015. Facts about Wildlife Diseases: Rabies. UF IFAS EDIS Document [WEC239](#).
- Wisely, S.M. 2014. Facts about Wildlife Diseases: Pseudorabies. UF IFAS EDIS Document [WEC343](#).
- Bankovich, B., Wisely, S.M., Boughton, E. March 2014. Quantifying forage loss following rooting by feral swine. The Florida Cattleman and Livestock Journal. Volume 78.

Honors:

- 2022 – LEAD21 Leadership for the 21st Century– Selected to participate in 2023.
- 2019 – High Impact Publication Award, University of Florida IFAS
- 2019-2022 – UF Foundation Research Professor
- 2019-2021 – University of Florida Term Professor
- 2016 – LEAD IFAS Leadership graduate
- 2011 – Top 150 Scientists in Kansas. I was named one of the top scientists, past or present, by the Ad Astra Science Council of Kansas

Grants:

Current Grants

- USDA Veterinary Services Center for Epidemiology and Animal Health. Geographic distribution of the soft tick, *Ornithodoros turicata* in Florida: implications for African Swine Fever. PI: S. Wisely. \$180,000.
- National Science Foundation. IRES: Understanding the global problem of defaunation through field experiments in Africa. PI: R. Fletcher, co-PI's: R. McCleery, S. Wisely, \$299,811.
- Cervidae Disease Research - Florida Legislative Recurring Academic Appropriation. July 2014-present. Samantha Wisely, P.I. \$2,000,000 per annum, \$16M total.

Previous Grants

- USDA Veterinary Services Center for Epidemiology and Animal Health. Feral Swine Contact and Dispersal – Methods Development and Data Collection. PI: R. Boughton, co-I: SM Wisely. Subaward \$20,000.
- Centers for Disease Control, Grant# CK000510, Regional Center of Excellence in Vector-borne Diseases. 12/30/2016-12/29/2020. R. Dinglasan (PI). J. Bloomquist, D. Cummings, G. Glass, J. Lednicky, M. Long, S. Ryan, S. Wisely (co-Is). Subaward \$400,000
- USDA Veterinary Services Center for Epidemiology and Animal Health. Feral Swine Contact and Dispersal – Methods Development and Data Collection. PI: R. Boughton, co-I: SM Wisely and KA Sayler. Subaward \$40,000.
- National Science Foundation. IRES: Changing Landscapes, Biodiversity, and Ecosystem Function in a Global Hotspot (in Africa). May 2015- September 2018. PI: Robert McCleery, co-PI's: Samantha Wisely, James Austin, Robert Fletcher. \$250,000.

National Science Foundation. US-Swaziland Planning Visit: Social and Ecological Drivers Impacting Biodiversity in Southern Africa. \$34,754. Samantha Wisely, P.I, Rick Stepp, co-PI. October 2014 – September 2015.

USDA APHIS WS Cooperative Agreement. Assessing diet in feral swine. \$15,000. Samantha Wisely, P.I. June 2014 - May 2015. Assessing damage to rangelands by feral pigs in Florida. \$145,000. Samantha Wisely, P.I. September 2012-August 2015. USDA APHIS WS Cooperative Agreement.

USDA APHIS VS Cooperative Agreement. Developing a rapid diagnostic tool for pseudorabies. \$76,000. Samantha Wisely, P.I. September 2014-August 2015.

U.S. Fish and Wildlife Service, Disease Surveillance Program. Disease surveillance in Arctic-breeding shorebirds. \$105,515. Richard Lanctot, P.I., Samantha Wisely, co-PI. June 2011- June 2014.

USDA APHIS WS Cooperative Agreement. Buccal sampling methods and preliminary assessment of pathogen diversity in feral swine. \$75,000. Samantha Wisely, P.I. September 2012-August 2013.

USFWS Great Plains Landscape Conservation Cooperative. Patterns and Processes of Dispersal of Black-Tailed Prairie Dogs in a Heavily Managed Landscape of the Great Plains Landscape Conservation Cooperative. \$98,008. Samantha Wisely, P.I., Jack Cully and Charles Lee, co-PI's. August 2011-September 2015.

U.S. Fish and Wildlife Service, Disease Surveillance Program. Biogeography of *Plasmodium* in Arctic-breeding shorebirds. \$59,008. Samantha Wisely, P.I. July 2012-June 2013.

National Science Foundation. URM: Undergraduate Research and Mentoring in Ecological Genomics. \$781,567. Samantha Wisely, P.I. Ari Jumpponen, co-PI. January 2011- December 2016.

U.S. Fish and Wildlife Service. Development of regional planning tools to assess the impacts of climate and land use change on a sensitive grassland bird. \$47,349. Samantha Wisely, P.I. Brett Sandercock, co-P.I. May 2010-September 2011.

Department of Energy. 20% Wind by 2030: Overcoming the Challenges (Topic Area 3: Environmental Impacts). Environmental impacts of wind power development on population biology of Greater Prairie-chickens. \$299,998. Brett Sandercock and Samantha Wisely co-PI's. July 1, 2009 - June 30, 2011.

USFWS. State Wildlife Grant. Environmental impacts of wind power development on population biology of Greater Prairie-chickens. \$149,000. Brett Sandercock and Samantha Wisely co-PI's. July 1, 2009 - June 30, 2011.

Department of Defense. National Center for Medical Intelligence. Assessing zoonotic disease threats overseas using a multimodal approach. Subcontract awarded to Samantha Wisely. Marty Vanier, P.I. July 2010-September 2010. \$166,000.

Department of Energy. National Wind Coordinating Committee. Effects of wind power on the demography and population genetics of the Greater Prairie Chicken. Brett Sandercock and Samantha Wisely co-PI's. March 2006 – December 2009. \$731,000.

National Fish and Wildlife Foundation. Effects of Wind Power on Prairie Chickens. Samantha Wisely, PI. June 2007-May 2009. \$149,546.

U.S. Geological Survey. National Wildlife Health Center. Biogeography and molecular epidemiology of the PRNP gene in Kansas. \$80,406. October 2007-September 2009.

National Fish and Wildlife Foundation. April 2005 – December 2006. \$54,511. Biomedical survey of wild black-footed ferrets.

U.S. Forest Service, Northwest Pacific Research Station. April 2005 – December 2006. \$60,090. Phylogeography and morphology of the red fox in North America.

LI-COR Biosciences Genomics Education Matching Fund Program. (PI Sue Brown Co-PI: Mark Ungerer, Sam Wisely). January – June 2006. \$50,000.

Arizona Game and Fish Department. March – May 2005. \$11,000. Biomedical survey of wild black-footed ferrets.

Phoenix Zoological Society. March – May 2005. \$5,000. Biomedical survey of wild black-footed ferrets.

KSU - NSF - Long Term Ecological Research (Subcontract). March 2004 – April 2005. \$8,000.
Carnivore disease survey on Konza Prairie Biological Station.

KSU - Ecological Genomics in Kansas. August 2004 – June 2005. \$20,000. Ecological, physiological and genomic consequences of environmental toxins.

KSU - Women and Minority in Science and Engineering Mentor Award. 2004-2005. \$6,000.
Conservation genetics of the fisher.

KSU - BRIEF. July 2005. \$12,345. Microsatellite Development Workshop.

KSU - The Center for the Understanding of Origins. July 2005. \$5,900. Microsatellite Development Workshop.

KSU-ADVANCE Seminar Series. 2004. \$700. Invited speaker: Dr. Lisette Waits, University of Idaho.

National Fish and Wildlife Foundation. 2003-2004. \$48,200. Biomedical surveys of wild black-footed ferrets. Funded. Administered by Friends of the National Zoo.

Extension Products and Presentations

Farmed Deer Diagnostic Laboratory Director – Since 2015, the diagnostic lab has provided disease diagnostic services and clinical reports for >1700 dead or moribund farmed deer in Florida. The Wildlife Extension Veterinarian has consulted on >200 Florida deer farms.

Field Days –

- Virtual Forage Field Day, Osceola County. What is deer farming? 2021.
- Wildlife Forages Demonstration, Marion County. I participated in this event organized by Marion County Extension, 54 participants, 2020
- Food Plots and Field Forages for Deer Farmers with 12 participants, 2019
- Integrated Pest Management for Deer Farmers with 35 participants, 2018
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In Service Training Participant –

- Natural Resource Extension Agents – Deer Farming in Florida, 2016

Industry Trade Shows-

- Southeast Trophy Deer Association Annual Meeting – State of deer health in Florida. 2016-2022.
- Ohio Deer Association Annual Meeting, 2020. EHD in white-tailed deer: the past, present and future of deer health.
- Minnesota Elk Breeders Association, 2020 – EHD in elk. What we know and what we don't.

United States Animal Health Association – I have been invited to present results from the diagnostic lab to the Farmed Cervid Working Group at the annual USAHA meetings in 2017-2020.

Invited Workshops

- Deer Farming for Venison in the Open Baltics. Sponsored by Vojvodinsume, a Serbian Forestry company. 2023.
- Game Meat Hygiene. Sponsored by the Committee for Game Meat Hygiene, European Union. 2023
- Florida Interagency Wild Pig Working Group. The impact of wild pigs on natural resources in Florida.
- Conservation Genomics for Practitioners. Sponsored by Genomic Biodiversity Knowledge for Resilient Ecosystems (GBiKE), a European Union sponsored initiative. 2020.
- Tick-borne Disease Think Tank, Sponsored by UF Emerging Pathogen Institute and Tourism Crisis Management Institute. 2014.

Professional Service:

Wildlife Conservation Advisor

- Member – Conservation Genetics Specialist Group, IUCN, 2016-present
- Member – Genetics Advisory Board for USFWS Black-footed Ferret Recovery Team, 2014-present
- Ad Hoc Member – Scientific Advisory Team for Florida Fish and Wildlife Commission Miami Tiger Beetle Team, 2015-2016
- Ad Hoc Member- Genetics Review Committee for USFWS California Gnatcatcher Recovery Team, 2015
- Member - Kansas Black-Footed Ferret Reintroduction Team, 2006-2011.
- Member – Advisory Committee to The Nature Conservancy’s Prairie Dog Management Plan, 2007-2011.

Zoonotic Disease and Health Advisor

- Consultant – Chinhoyi Technical University of Zimbabwe, Development of a One Health Education Program. 2022.
- Member - Ad hoc Committee on Bluetongue Surveillance in the US, USDA National Diagnostic Veterinary Laboratory. 2021.
- Member – Florida Interagency Zoonotic Disease Working Group, 2012-present
- Member – Florida Dept. of Public Health, Florida Rabies Advisory Committee, 2012-present
- Ad hoc Advisor – New Mexico Department of Public Health, Rabies Outbreak Task Force, 2012

External Reviewer for Promotion and Tenure

- Texas A&M, Dept. of Entomology, 2022
- University of Georgia, College of Veterinary Medicine, 2020
- Oregon State University, 2018
- University of Georgia Odum School of Ecology, 2013
- University of Wisconsin, Milwaukee, 2012
- University of The United Arab Emirates, 2013

National Science Foundation, National Ecological Observatory Network.

- Board of Directors, 2015-2016
- Member, NEON Workshop Committee.
- Workshop Organizer, NEON Member meeting, Integrating Site-based Science questions with regional and continental scale data.
- Member Representative for University of Florida
- External Compliance Evaluator – Institutional Animal Care and Use Committee for the National Ecological Observatory Network, 2013
- Representative, Climate Science Day on Capitol Hill, 2012
- Member, Domain 6 Science and Education Coordination Committee, 2009-2011

USDA APHIS WS National Wildlife Research Center

- Panelist – Employee Research Grade Evaluation
- Panelist – 10 Year Institutional Review, 2014

Organization of Biological Field Stations

- Representative for Congressional Meetings Day on Capitol Hill, Washington, D.C., April 11, 2013.
- Member of Diversity Committee, 2014-2015

Panel Reviewer:

- NSF, DEB, Population and Community Ecology Panel, 2013, 2014, 2016.
- National Science Center, Republic of Poland. Ad Hoc Reviewer for research proposal. 2012.
- NSF, DEB, DDIG Panel. 2010.

- NSF, DEB, Population Ecology and Evolution Panel, 2007, 2008.
- EPA Star Grants 2004-2005.
- University of California at Davis, College of Veterinary Medicine, Wildlife Health Center Grants Program 2005.

Editorial Reviewer:

- Guest Editor, Viruses (journal), Special Issue: Epizootic Hemorrhagic Disease Virus, 2021
- Guest Editor, Insects (journal), Special Issue: Tick and Tick-borne Disease Surveillance, 2019
- Guest Editor, Ecological Services (journal), Special Issue: Natural capital and livelihoods in southern Africa, 2018.
- Associate Editor, Journal of Mammalogy. 2009-2013.
- Ad Hoc Reviewer: Biological Journal of Linnean Society, Proceedings of the 4th *Martes* Symposium, Prairie Naturalist, Conservation Genetics, Molecular Ecology, Journal of Mammalogy, Journal of Evolutionary Biology, Annales Zoologici, Genetics and Molecular Biology, Journal of Wildlife Management, Biological Conservation, Genetica, Journal of Heredity, Revista Mexicana e Biodiversidad, International Journal of Artificial Life Research, Southwestern Naturalist, Animal Conservation, Environmental Conservation, International Journal of Parasitology

Academic Service Activities:

University

UF Commencement Marshall Fall 2022
 UF Provost Panel Reviewer for Research Opportunity (Seed) Fund (2022-2023)
 UF Faculty Senate – Land Use and Facilities Planning Committee (2017-2020)
 UF Provost – Advisory Board, UF Biodiversity Institute (2016-2017).
 UF CVM Large Animal Clinical Science Dept. – Search Committee for Dept. Head, 2018

College

UF IFAS T&P Committee (2022-2023)
 UF IFAS Dean of Research Advisory Committee (DRAC) 2021-2023
 UF IFAS Search Committee for Director of Invasion Science Center (2021)
 UF IFAS – Environmental Health Sciences Building Planning Committee (2015).

Department

UF Dept. of Wildlife Ecology and Conservation – Dept. seminar co-coordinator, Fall 14, Fall 2021.
 UF Dept. of Wildlife Ecology and Conservation – WEC-FWC Steering Committee
 UF Dept. of Wildlife Ecology and Conservation Mentoring Committee for Miguel Acevedo, Bridget Baker, Hance Ellington, Brett Scheffers, Juan Campos
 UF Dept, of Wildlife Ecology and Conservation – Chair, Search Committee for Disease Ecologist, 2016
 UF Dept, of Wildlife Ecology and Conservation – co-Chair, Search Committee for Wildlife Extension Veterinarian, 2016.
 UF Dept. of Wildlife Ecology and Conservation – Search Committee for Large Mammal Ecologist, 2015.
 UF Dept. of Wildlife Ecology and Conservation – Search Committee for Coop Unit Leader, 2015.
 UF Dept. of Wildlife Ecology and Conservation – Search Committee for WEC Chair, 2013.
 UF Dept. of Wildlife Ecology and Conservation – Search Committee for Ona Range Scientist, 2013.
 UF Dept. of Wildlife Ecology and Conservation – Graduate Programming Committee, 2012-2016.

Kansas State University

KSU Division of Biology Faculty Search Committee - USGS Coop Unit Leader 2010

USGS Coop Assistant Fisheries Leader 2010
Physiological Ecologist 2007

KSU Division of Biology Graduate Affairs Committee, 2010
KSU Ecological Genomics Institute, Workshop Committee Member. 2005-2007
KSU Ecological Genomics Institute, Visiting Scholars Committee Member. 2005-2007
KSU Division of Biology Fish and Wildlife Biology Curriculum Committee. 2005 – 2005.
KSU Division of Biology Graduate Student Symposium Judge. 2004, 2006, 2008
KSU Center for the Understanding of Origins. Member.
NSF - Girls Researching Our World, GROW. Instructor. 2004-2011.
Faculty Advisor to the Student Chapter of The Wildlife Society. 2005-2011.
Seminar Coordinator, KSU Division of Biology, Ecology and Evolutionary Biology Section, 2004-2005, 2008-2009.

Professional Training:

Basic Certified Wildland Fire Training, National Wildfire Coordinating Group (NWCG) Certified Courses (I-100, S-130, S-190, L-180). August 2012.

Society Memberships:

American Society of Mammalogists - Life Member
- Member, Conservation Awards Committee
The Wildlife Society - Faculty Sponsor of the KSU Student Chapter, 2004-2011.
Wildlife Disease Association - Member, Host Committee for 2018 International Wildlife Disease Association Meeting in Gainesville
- Advisor to the UF Student Chapter 2016-2021.

Invited Professional Presentations:

ProtectBIRDS: A Serbian Hungarian Partnership through the European Union. Sampling for Success: Best practices in wildlife biosampling. University of Novi Sad, Serbia. 2022.
American Zoo and Aquarium Association's Black-footed Ferret Recovery and Reintroduction Program Analysis. Keynote address: Historical biogeography of the black-footed ferret. 2021
Canadian Government, Ministry of the Environment, Wild pig operational task force – Impacts and management of wild pigs in Florida. 2021
North American Elk Breeders Association National Convention. EHD in elk. 2021.
University of Florida Student Chapter of The Wildlife Disease Association. The disease ecology of wild pigs in Florida. Student Chapter of the Wildlife Disease Association, University of Florida. February 2019. Cervidae Health Research Initiative and One Health in Florida.
UF Biodiversity Symposium, May 2019. Collaborations in Biodiversity: Pathogens and Parasites. Samantha Wisely
The Wildlife Society's 25th Annual Conference, October 2018. Invited Speaker at Symposium, Current and Future Genetic Technologies for Wildlife Management. 21st Century technologies for highly endangered species: synthetic biology in conservation practice. Wisely, S.M., Santymire, R.M., And Livieri, T.R.
Kansas State University. Symposium hosted by Center of Excellence for Emerging and Zoonotic Animal Diseases, Cervidae Health Research Initiative: Promoting deer health to the farmed deer industry in Florida.
University of Florida, Department of Applied and Biological Engineering, Biocomplexity Working Group. Invasive Species and Pathogen Pollution.

University of Florida, Student Chapter of the Wildlife Disease Association, Monthly Meeting. Pathogen Pollution from Invasive Species

Santa Fe College. November 2018. Pathogen pollution from Invasive Species. Wisely, S.M. 21st Century technologies for highly endangered species: cloning, gene editing, and epigenetic manipulation for conservation. Invited Speaker at Symposium, Current and Future Genetic Technologies for Wildlife Management at The Wildlife Society's 25th Annual Conference, October 2018.

Kansas State University, Symposium hosted by Center of Excellence for Emerging and Zoonotic Animal Diseases, Cervidae Health Research Initiative: Promoting deer health to the farmed deer industry in Florida.

University of Arizona, Natural Resources Graduate Student Organization Speaker of the Year. Pathogen pollution caused by invasive species in the Americas, March 2016.

Kennedy Space Center, NASA. Environmental impacts of feral swine in Florida, November 2015.

USFWS Black-Footed Ferret Recovery Team Genetics Symposium. BFF Genetics in the Field and Breeding Centers: Past, Present, Future, January 2015.

Rabies in the Americas. Contributions of community ecology and genetics in our understanding of rabies in mesocarnivores. Keynote Speaker.

Society for the Preservation of Natural History Collections. The utility of accessioned collections for conservation management of endangered species. S. M. Wisely, P.M. Marinari, O.A. Ryder. May 2015. Invited Speaker to Symposium: Specimens Full Circle: Collection to Digitization to Data Use.

University of Georgia, Warnell School of Forestry. Invasive mammals: Documenting distribution changes and assessing impacts in the 21st Century, January 2015.

Symposium on Genomics in Wildlife Research at The Annual Meeting of The Wildlife Society, October 2014. Using Genomic Approaches to Understand Wildlife Diseases. Katherine Sayler, Samantha Wisely, Toni Piaggio.

Infectious Disease Seminar Series, Centers for Disease Control, Colorado State University, and the National Wildlife Research Center, January 2014. The Biogeography of Infectious Wildlife Diseases.

Oxford Round Table on Critical Issues of Sustainability, Harris Manchester College, Oxford University, July 2013. The complex relationship of biodiversity and disease emergence on the agro-ecological landscape.

Biology Department, University of Florida, November 2012. The effect of late Quaternary history on the extinction risk and conservation value of Holarctic species.

Geography Department, University of Florida, September 2012. The effect of late Quaternary history on the extinction risk and conservation value of Holarctic species.

Dept. of Environmental and Global Health, University of Florida, June 2012. Deforestation and cattle ranching drive the emergence of zoonotic pathogens.

JW Jones Ecological Research Center, May 2012. Deforestation and cattle ranching drive the emergence of zoonotic pathogens.

Archbold Biological Field Station, January 2012. Intrinsic and extrinsic factors drive the emergence of rabies.

International Grassland Symposium, September 2011. Drivers of disease dynamics in grassland ecosystems.

One Health Kansas. Professional Development Seminar for Public Health Professionals. Zoonotic Diseases of Kansas. July 2011.

University of Montana. Ecology of Infectious Disease, Scholar in Residence Program. Landscape epizootiology. November 2010.

Kansas State University College of Veterinary Medicine. Department of Pathobiology. Deforestation and cattle ranching drive the emergence of zoonotic pathogens. October 2010.

Central Plains Society of Mammalogists. Keynote address. What fossil remains and DNA evidence tell us about mesocarnivores: foxes, ferrets and skunks. October 2010.

Keynote address, Black-footed Ferret Recovery in Kansas. 46th Conservation Achievement Program Awards Banquet, Kansas Wildlife Federation, Manhattan, Kansas. February 2010.

Missouri State University. Biology Department. Contrasting epidemiology of evolutionarily independent strains of rabies in a common host species. December 2009.

Kansas Association of Zoological Parks. Black-footed Ferret Recovery in Kansas. March 2009.

University of Nevada at Reno. Ecology, Evolution and Conservation Biology Colloquium. Contrasting epidemiology of evolutionarily independent strains of rabies in a common host species. April 2009.

Kansas State University College of Veterinary Medicine. Department of Pathobiology. Contrasting epidemiology of evolutionarily independent strains of rabies in a common host species. October 2007.

University of Wyoming, Dept. of Zoology and Physiology. Quaternary history affects the risk of extinction and conservation value of Holarctic fauna. April 2007.

University of Missouri, Division of Biological Sciences. Quaternary history affects the risk of extinction and conservation value of Holarctic fauna. April 2007.

U.S. Geological Survey, National Conservation Genetics Laboratory. Conservation genetics of the black-footed ferret captive breeding program. October 2006.

University of Denver, Dept. of Biology. Quaternary history affects the risk of extinction and conservation value of Holarctic fauna. October 2006.

Emporia State University, Dept. of Biological Sciences. Conservation breeding of the endangered black-footed ferret. April 2006.

Michigan Technical University, Dept. of Natural Resources. Conservation genetics of the Pacific fisher. April 2005.

Colby College, Biology Department. Conservation biology of the black-footed ferret. April 2005.

US Fish and Wildlife Service, Executive Committee of the Black-Footed Ferret Recovery Team. Biomedical survey of wild black-footed ferrets. 2004.

US Geological Survey, Midcontinent Research Laboratory, Black-Footed Ferret Symposium, Genetic diversity in the black-footed ferret: Past, present and future. 2004.

US Fish and Wildlife Service, Conservation Subcommittee of the Black-Footed Ferret Recovery Team. Biomedical survey of the black-footed ferret. 2004.

Professional Presentations (Presenter underlined. *Undergraduate author)

The Wildlife Society. Comparing conventional wildlife surveys to mosquito bloodmeal analysis for measuring biodiversity. Samantha Wisely, Sebastian Botero, Nathan Burkett Cadena, Lawrence Reeves

The Wildlife Society. Trypanosoma cruzi in the southeastern US and a survey of select native reservoir hosts. Carson Torhorst, Samantha Wisely, Norman Beatty

The Wildlife Society. The Florida Bonnetted Bat consists of two isolated cryptic lineages. Celine Carneiro, James Austin, Samantha Wisely

10th International Deer Biology Congress. The Cervidae Health Research Initiative increases survival and production of farmed white-tailed deer. Samantha Wisely, Juan Campos et al.

10th International Deer Biology Congress. Bluetongue virus serotypes found in deceased Florida farmed white-tailed deer. Kristin Wilson, Zoe White, Samantha Wisely, Juan Campos

10th International Deer Biology Congress. SARS-CoV-2 in farmed white-tailed deer. Savannah Grace, Samantha Wisely, Juan Campos. *Savannah won best student presentation!

10th International Deer Biology Congress. Cause of death in Florida farmed white-tailed deer. Juan Campos, Samantha Wisely

10th International Deer Biology Congress. Bacterial pathogens isolated from Florida farmed white-tailed deer. An-Chi Cheng, Juan Campos, Samantha Wisely

10th International Deer Biology Congress. Rapid detection of BTV serotypes using an underutilized detection platform. Zoe White, Samantha Wisely

- International Meeting of the Wildlife Disease Association. The epidemiological impact of synanthropic mesomammals in the peridomestic transmission cycle of *T. cruzi* in Florida. Carson Torhorst, Zoe White, Norman Beatty, Samantha Wisely
- International Meeting of the Wildlife Disease Association. *Trueperella pyogenes*, a Lethal Pathogen for Farmed White-Tailed Deer in Florida. An-Chi Cheng, Ting Liu, Joao Bittar, Kwangcheol Casey Jeong, Kuttichantran Subramaniam, Samantha M. Wisely, Juan M. Campos Krauer Entomological Society of America, St. Louis, MO, November 2019. Seasonal shifts in ectoparasites of Florida wild mesomammals. Sarah Maestas, Samantha Wisely, Phillip Kaufman.
- 49th Annual Society for Vector Ecology, San Juan Puerto Rico, September 2019. Ticks and Their Vectored Pathogens Within Rural, Semi-Urban and Urban Environments in Alachua County, FL. Chanakya Bhosale*, Kristen Wilson, Carrie De Jesus, Zoe White, Samantha Wisely.
- 49th Annual Society for Vector Ecology, San Juan Puerto Rico, September 2019. Multi-scale patterns of tick occupancy and abundance across an agricultural landscape in southern Africa. Kim Ledger, Samantha Wisely
- 49th Annual Society for Vector Ecology, San Juan Puerto Rico, September 2019. Prevalence of Ixodid Ticks on Reptile Hosts in Florida. Carrie De Jesus, Samantha Wisely, Coeman Sheehy and David Blackburn.
- Entomological Society of America, St. Louis, MO, November 2019. Seasonal shifts of Florida wild mesomammal ectoparasites. Sarah Mays Maestas, Samantha Wisely and Phillip Kaufman.
- 39th Annual Congress of the Zoological Society of Southern Africa, South Africa, July 2019. Multi-scale patterns of tick occupancy and abundance across an agricultural landscape in southern Africa. Ledger, K.J., Keenan, R., Saylor, KA and SM Wisely.
- 68th Annual International Conference of the Wildlife Disease Association, Lake Tahoe, CA, August 2019. Cause of Death in Florida Farmed White-Tailed Deer (*Odocoileus virginianus*) during 2017 – 2018. Cottingham, S., Barber, H., Goodfriend, O., Saylor, K., Walden, H.S., Waltzek, T.B., Lednicky, J., Blackburn, J., Wisely, S., Campos, J.
- 68th Annual International Conference of the Wildlife Disease Association, Lake Tahoe, CA, August 2019. The nasal microbiome of farmed White-tailed deer (*Odocoileus virginianus*) in Florida. Barber, H., Gomez, D., Wisely, S., Campos, J.
- 68th Annual International Conference of the Wildlife Disease Association, Lake Tahoe, CA, August 2019. Phylogenomic Characterization of Novel Orbiviruses Isolated From White-tailed Deer (*Odocoileus virginianus*) Ahasan, M., Subramaniam, K., Lednicky, J., Loeb, J., Saylor, K., Campos, J., Wisely, S., Waltzek, T.
- 85th Annual Meeting of the American Mosquito Control Association. February 2019. *Rickettsia* Diversity of *Amblyomma americanum* in Florida. Carrie E. De Jesus, Zoe White, Greg Glass, Samantha Wisely
- New Horizons Conservation Conference, Environmental Fellows Program, University of Michigan. April 2019. Understanding How Heterogeneity and Fine Scale Characteristics Influence Tick-Borne Disease Regulation in Swaziland. Hanna Innocent* presenting. S. Wisely, K. Ledger.
- 39th Annual Congress of the Zoological Society of Southern Africa, South Africa, July 2019. Multi-scale patterns of tick occupancy and abundance across an agricultural landscape in southern Africa. Ledger, K.J., Keenan, R., Saylor, KA and SM Wisely.
- 68th Annual International Conference of the Wildlife Disease Association, Lake Tahoe, CA, August 2019. Cause of Death in Florida Farmed White-Tailed Deer (*Odocoileus virginianus*) during 2017 – 2018. Cottingham, S., Barber, H., Goodfriend, O., Saylor, K., Walden, H.S., Waltzek, T.B., Lednicky, J., Blackburn, J., Wisely, S., Campos, J.

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- New Horizons Conservation Conference, Environmental Fellows Program, University of Michigan. April 2019. Understanding How Heterogeneity and Fine Scale Characteristics Influence Tick-Borne Disease Regulation in Swaziland. Hanna Innocent* presenting. S. Wisely, K. Ledger. 67th International Meeting of the Wildlife Disease Association, August 2018. Epidemiology of EHDV in Florida farmed deer. S.M. Wisely, K.A. Saylor, J.M. Campos.
- The 3rd Annual eSwatini Biodiversity Symposium, July 2018. Tick-borne disease dynamics in Eswatini. S.M. Wisely, K. Ledger, S. Lukhele.
- 28th Vertebrate Pest Conference. Rohnert Park, CA. February–March 2018. Platform Presentation. The impact of a wild pig pathogen on Florida panthers and potential impacts to California wildlife. S.M. Wisely, B. Parker.
- Epidemics 6: Dynamics of Infectious Diseases. December 2017. Differences in pathogenesis influence landscape epidemiology of two common pathogens in wild pigs in Florida, USA. Wisely, S.M., Hernández, F.A.
- 66th Annual International Wildlife Disease Association Conference. July 2017. Hemorrhagic Disease in Florida White-tailed Deer (*Odocoileus virginianus*): A Comparison of Farmed and Wild Deer. Cauvin, A., Boyce, B., Wisely, S. Saylor, K.
- 66th Annual International Wildlife Disease Association Conference. July 2017. Arbovirus surveillance in farmed white-tailed deer in Florida, USA. Boyce, B., Wisely, S. Saylor, K.
- 66th Annual International Wildlife Disease Association Conference. July 2017. Invasive macaques in Florida carry and shed a herpes virus of public health concern. Wisely, S., Anderson, J., Boyce, C., Saylor, K., Klegarth, A., Johnson, S.
- 17th Wildlife Damage and Management Conference, February 2017. Invasive macaques in Florida carry and shed a herpes virus of public health concern. Wisely, S., Anderson, J., Boyce, C., Saylor, K., Klegarth, A., Johnson, S.
- 17th Wildlife Damage and Management Conference, February 2017. Surveillance for Herpes B DNA in macaque feces collected from a public park in Florida USA. Boyce, C., Wisely, S., Anderson, J., Saylor, K., Klegarth, A., Johnson, S.
- 17th Wildlife Damage and Management Conference, February 2017. Population genetics of feral swine in Florida: perspectives of the expansion and colonization of an invasive wild ungulate. Hernández, F., Parker, B., Pylant, C., Austin, J., Wisely, S.
- 17th Wildlife Damage and Management Conference, February 2017. Comparison of Ixodid tick collection methods: dragging vs. surveys of feral swine in south central Florida. Merrill, M., Boughton, R., Saylor, K., Lord, C., Wisely, S.
- 17th Wildlife Damage and Management Conference, February 2017. Movement, population structure, and disease prevalence of cattle egrets (*Bubulcus ibis*): a proposal. Moore, S., Merrill, M., Powell, A. Wisely, S.

- 17th Wildlife Damage and Management Conference, February 2017. Development of simple real-time PCR test for the detection of highly pathogenic, imported Chinese strains of pseudorabies (PRV) in pigs. Saylor, K., Hernández, F., Wisely, S.
- 17th Wildlife Damage and Management Conference, February 2017. Techniques for trapping cattle egrets. Walker, M., Moore, S., Wisely, S. International Meeting on Emerging Diseases and Surveillance, Vienna, Austria. 2016. Autogenous vaccine field trial for epizootic hemorrhagic disease virus and bluetongue virus does not result in high titer to homologous virus serotypes. S.M. Wisely, K.A. Saylor.
- International Meeting on Emerging Diseases and Surveillance, Vienna, Austria. 2016. Overwintering of epizootic hemorrhagic disease virus in white-tailed deer in Florida, USA: Unanticipated seroconversion and the case for alternative vectors. K. Saylor, E. Blosser, B. McGregor, N. Burkett-Cadena, S. M. Wisely.
- 5th International Ecosummit, Montpellier, France, 2016. Socio-ecological principles of conservation planning in the lowveld of Swaziland. S.M. Wisely*, L. Cassidy, R.A. McCleery, G. Barnes, A. Monadjem.
- International Wild Pig Conference, Myrtle Beach, South Carolina. The role of feral swine in production diseases of cattle in south-central Florida. Merrill, M.M., Boughton, R.K., Saylor, K.A., Hernandez, F.A., Bounds, C.A., Moore, S.P., Lord, C.C., Wisely, S.M.
- International Wild Pig Conference, Myrtle Beach, South Carolina. Development of a rapid, simple, and specific qPCR assay for detection of pseudorabies in domestic swine herds. Saylor, K.A., Bigelow, T., Wisely, S.M.
- International Wild Pig Conference, Myrtle Beach, South Carolina. Pseudorabies (PRV) exposure and infection status in feral swine populations of Florida. Hernandez, F.A., Saylor, K.A., Carr, A.A., Wisely, S.M.
- Vertebrate Pest Conference, Newport Beach, California, March 2016. Land Management and Land Cover Influence the Emergence of Pseudorabies in Feral Swine in Florida. Wisely, S.M., Carr, A., Hernandez, F., Milleison, M., Avery, M.
- Vertebrate Pest Conference, Newport Beach, California, March 2016. The Role of Feral Swine in the Emergence of Neglected Pathogens of Cattle in Florida. Merrill, M.M., Wisely, S.M., Boughton, R.K.
- Florida Chapter of the Wildlife Society, April 2016. Epizootiology of pseudorabies in the Florida Puma. Cunningham, M.W., Conley, K., Onorato, D., Mead, D.G., Maes, R.K., Kuipel, M., Terrell, S.P., Shindle, D.S., Saylor, K.A., McBride, R., Jansen, D., Clemons, B.C., Caudill, G., Wisely, S.M., Evermann, J.
- American Association of Geographers, 2016, San Francisco, California. At the trough: evaluating deer movements and feeder usage during the epizootic hemorrhagic disease virus transmission period. Blackburn, J.K., Saylor, K., Cutright, H., Burkett-Cadena, N.D., McGregor, B., Wisely, S.M.
- Fifth International Conference on Infectious Disease Dynamics, 1-4 December 2015, Clearwater, Florida. Landscape scale predictors of pseudorabies exposure in feral swine populations of Florida. Wisely, S.M., Carr, A.*, Milleison, M., Hernandez, F., Avery, M.
- Florida Cooperative Fish and Wildlife Research Unit Cooperators Meeting, May 2015. Epizootic hemorrhagic disease virus and bluetongue virus in cervids in north Florida: a pilot study on disease ecology. Saylor, K., Carr, A., Hill, J., Wisely, S.
- Florida Cooperative Fish and Wildlife Research Unit Cooperators Meeting, May 2015. Movement & spread of disease agents: An example of Haemosporidia transmission in Southern States, Caribbean & Central America. Ganser, C., and S.M. Wisely.
- Florida Genetics Symposium, 2015, Gainesville, Florida. Movement & spread of disease agents: An example of Haemosporidia transmission in Southern States, Caribbean & Central America. Ganser, C., and S.M. Wisely

- University of Florida Emerging Pathogens Institute Research Day, Gainesville, Florida, February 26, 2015. Environment and demography influence seroprevalence of pseudorabies in feral swine populations of Florida. Carr AN*, Hernandez F, Milleson MP, Wisely SM.
- University of Florida Emerging Pathogens Institute Research Day, Gainesville, Florida, February 26, 2015. Helminths of raccoons (*Procyon lotor*): are helminths sensitive to heavy metal pollution? – A wildlife health perspective. Hernández, F., Oldenkamp, R., Webster, S., Wisely, S., Beasley, J. and Farina, L.
- The Florida Chapter of The Wildlife Society 2015 Spring Meeting, Jacksonville, Florida, March 31-April 2, 2015. Environment and demography predict seroprevalence of pseudorabies in feral swine populations of Florida. Carr AN*, Hernandez F, Milleson MP, Wisely SM.
- Western Hemisphere Shorebird Group Meeting, September 2015, Wallops Island, Virginia. Biogeography of Transmission Dynamics For A Vector-Borne Pathogen Recently Found In Arctic-Breeding Shorebirds. C. Ganser, and S.M. Wisely.
- 46th Annual Meeting of the Society for Vector Ecology. September 2015. Fine-scale spatial epidemiology of avian malaria in grassland birds of north-central Kansas. Wisely, S.M., Ganser, C., Sandercock, B.K., Gregory, A.J.
- 46th Annual Meeting of the Society for Vector Ecology. September 2015. Rickettsial organisms found in ticks parasitizing the endangered Florida grasshopper sparrow, *Ammodramus savannarum floridanus*. Saylor, KA, Hagheb E, Miller K, Robbins R and SM Wisely.
- 95th Annual Meeting of the American Society of Mammalogists (ASM), 12-16 June, Jacksonville, Florida. Environment and demography predict seroprevalence of pseudorabies in feral swine populations of Florida. Carr, A.N., Hernández, F., Milleson, M.P. and Wisely, S.M.
- 95th Annual Meeting of the American Society of Mammalogists (ASM), 12-16 June, Jacksonville, Florida. Are raccoons (*Procyon lotor*) good sentinels of metal contamination? – A wildlife health perspective. Hernández, F., Oldenkamp, R., Webster, S., Wisely, S., Beasley, J. and Farina, L.
- Southeastern Association of Fish and Wildlife Agencies, Destin, Florida, October 22-23, 2014. Epizootiology of pseudorabies virus infection in the Florida panther. Cunningham, MW, Conley, K., Mead DG, Onorato D, Terrell SP, Shindle DS, Wisely SM, Jansen D, Clemons BC, Caudil GE, Maes RM, Kiupel M.
- Florida Fish and Wildlife Cooperative Research Unit, Cooperators Meeting. May 2014. Anthropogenic landscape modification: invasive alien species, altered mammalian communities and disease threats. Andrew Satterlee, Samantha Wisely
- Florida Fish and Wildlife Cooperative Research Unit, Cooperators Meeting. May 2014. Are raccoons good sentinels of heavy metal contamination? A wildlife health perspective. Felipe Hernandez, Samantha Wisely, Jim Beasley
- Florida Fish and Wildlife Cooperative Research Unit, Cooperators Meeting. May 2014. Using discrete choice models to assess habitat preferences of invasive feral swine at the MacArthur Agro-Ecology Research Center. Brittany Bankovich, Catherine Haase, Samantha Wisely.
- International Wild Pig Symposium. April 2014. Environmental Impacts of Feral Swine in Rangelands of South Florida. Samantha Wisely, Andrew Satterlee.
- International Wild Pig Symposium. April 2014. Community ecology of anthropogenically provided supplemental resources on a commercial cattle ranch in south Florida. Andrew Satterlee, Samantha Wisely
- Rabies in the Americas, Cancún, Mexico, October 2014. Rabies education and prevention in Grenada, West Indies. S.M. Wisely and W. Sylvester.
- Society for Rangeland Management. January 2014. Similarities in Pathogen Communities Among Cattle and Feral Swine in the Southeastern United States. Samantha Wisely, Andrew Satterlee, Raoul Boughton, Nicholas Be, Michael Milleson, Brittany Bankovich.

Society for Rangeland Management. January 2014. Forage grass recovery in feral swine rooted areas on a south Florida ranch. Brittany Bankovich, Samantha Wisely, Elizabeth Boughton, Andrew Satterlee.

Student Conference on Conservation Science New York. American Museum of Natural History, New York City, New York, October 9-11, 2013. Microbes and host physiology – an understanding of health at multiple biological levels. Hernandez, F., Wisely, S. and Beasley, J.

University of Florida Emerging Pathogen Institute Research Day Mapping the Landscape of Evolving Science. UF Campus at the Emerging Pathogens Institute, Gainesville, Florida, February 14th, 2013. Fecal and Bloodborne Pathogen Community Assemblage of an Invasive Alien Species: Feral Swine in the Southeastern U.S.A. Satterlee, S.A., Bankovich, B., Boughton, R., Campbell, T.B., Hernandez, F., Jiang, C.J., Milleson, M.P., Slezak, T., Tillman, E.A. and Wisely, S.M.

Society of Wetland Scientists South Atlantic Chapter/Florida Association of Environmental Soil Scientists/South West Chapter of the Florida Association of Environmental Professionals. 2013 Short-term trajectories of Carolina Redroot Following Rooting Disturbance by Feral Swine in South Florida. Bankovich, B., Boughton, E., and Wisely, S.M.

5th Western Hemisphere Shorebird Group Meeting. 2013 Avian malaria of Arctic-breeding shorebirds and their global transmission patterns. Ganser, C., and Wisely, S.M.

62nd International Conference of the Wildlife Disease Association. 2013. Biogeography of transmission dynamics for vector-borne pathogens recently found in Arctic-breeding shorebirds. Ganser, C., and Wisely, S.M.

Joint Meeting of the American Ornithologists' Union (131st), and the Cooper Ornithological Society (83rd), Chicago, Illinois. August 2013. Demographic effects of wind power development on Greater Prairie-Chickens. Sandercock, B.K., V.L. Winder, L.B. McNew, A.J. Gregory, and S.M. Wisely.

Joint Meeting of the American Ornithologists' Union (131st), and the Cooper Ornithological Society (83rd), Chicago, Illinois. August 2013. Quantifying Greater Prairie-Chicken spatial ecology in response to wind energy development in north-central Kansas. Winder, V.L., L.B. McNew, A.J. Gregory, L.M. Hunt, S.M. Wisely, and B.K. Sandercock.

American Society of Mammalogy, June 2013. Broad-scale patterns of connectivity among black-tailed prairie dog colonies in a heavily managed landscape. Rachel Pigg, Samantha Wisely, Charlie Lee, and Jack Cully, Jr.

Western Section of the Wildlife Society; Sacramento, CA, USA. February 2013. Stable mitochondrial variation in a declining population: a 135-year genetic survey of Buff-breasted Sandpipers. Zachary T. Lounsbury, Juliana B. Almeida, Richard B. Lanctot, Joe Liebezeit, Brett K. Sandercock, Khara M. Strum, Steve Zack, and Samantha M. Wisely.

Society for Rangeland Management Meeting, February 2013. Effects of rangeland management and wind power on greater prairie-chickens in eastern Kansas. Brett K. Sandercock, Virginia L. Winder, Lyla M. Hunt, Lance B. McNew, Andrew J. Gregory, and Samantha M. Wisely.

6th Biennial Conference of International Society of Biogeography, January 2013. The Biogeography of Pathogen Community Assemblage in the Southeastern United States. Samantha M. Wisely, S. Andrew Satterlee, Tyler B. Campbell, Michael P. Milleson, Brittany Bankovich, Felipe Hernandez

6th Biennial Conference of International Society of Biogeography, January 2013. Biogeography of avian malaria in the Great Plains. Ganser, C. and Wisely, S.M. ***Claudia won best student presentation!**

North American Ornithological Conference (5th), Vancouver, British Columbia. August 2012. Greater Prairie-Chicken nest survival within a fragmented grassland landscape in northcentral Kansas. Hunt, L.M., L.B. McNew, A.J. Gregory, S.M. Wisely, and B.K. Sandercock.

North American Ornithological Conference (5th), Vancouver, British Columbia. August 2012. Lounsbury, Z., J. Almeida, R.B. Lanctot, B.K. Sandercock, K. Strum, and S.M. Wisely. Conservation status of Buff-breasted Sandpipers (*Tryngites subruficollis*): a conservation genetics approach.

- Wind Wildlife Research Meeting, November 2012. Effects of Wind Power Development on Greater Prairie-Chickens in Kansas. Sandercock, B.K., Hunt, L.M., Gregory, A.J., McNew, L.B., Wisely, S.M.
- International Conference on Emerging Infectious Diseases. March 2012. Using host population to structure to forecast the spread of rabies in Northern Ohio. Wisely, S.M., Berensten, A.R., Fitzpatrick, C.E., Dunbar, M.R., and Gregory, A.J.
- Kansas Natural Resources Conference (5th), Wichita, Kansas. January 2012. Greater Prairie-Chicken nest survival in relation to habitat characteristics and anthropogenic disturbance in north central Kansas. Hunt, L.M., L.B. McNew, A.J. Gregory, S.M. Wisely, and B.K. Sandercock
- Kansas Natural Resources Conference (5th), Wichita, Kansas. January 2012. Responses of a grassland rodent community to patch-burn grazing in the northern Flint Hills of Kansas. Ricketts, A.M., B.K. Sandercock, and S.M. Wisely.
- Rabies in the Americas Meeting. October 2011. Using host population to structure to forecast the spread of rabies in Northern Ohio. Wisely, S.M., Berensten, A.R., Fitzpatrick, C.E., Dunbar, M.R., and Gregory, A.J.
- Annual Meeting of the American Society of Mammalogy, June 2011. Phylogeography of striped skunks, (*Mephitis mephitis*) in North America: Pleistocene dispersal and contemporary population structure. Wisely, S.M. and H.D. Barton.
- International Biogeography Society, January 2011. Assessing the threat of zoonotic disease in the face of deforestation in Paraguay. Wisely, S.M., Campos Krauer, J.M.
- International Biogeography Society, January 2011. Forecasting habitat suitability for a grassland specialist as a function of changes in land use and climate across the Central Great Plains. Gregory, A.J., S.M. Wisely, B.K. Sandercock.
- International Society for EcoHealth. August 2010. Assessing the threat of zoonotic disease in the face of deforestation in Paraguay. Wisely, S.M., Campos Krauer, J.M.
- Global Land Conference. 2010. Exurbanization, landscape fragmentation, and changes in habitat connectivity in the Flint Hills of Kansas. Harrington J., Prebyl, T.*, Wisely, S.M.
- European Conference on Rabies. September 2010. Genetic Relatedness of Raccoons in Northeastern Ohio, USA: Implications for Rabies Spread. Berensten, A.R., Wisely, S.M., Dunbar, M.R., Fitzpatrick, G.E.
- Kansas Natural Resource Conference, Wichita, Kansas. February 2010. Estimating population size of white-tailed deer on Konza Prairie Biological Station. Siders, A.*, Wisely, S.M.
- Annual Meeting of the Society for Northwestern Vertebrate Biology, Medford, Oregon. February 2010. Phylogeography of the North American red fox: vicariance in Pleistocene forest refugia. Aubry, K.B., M.J. Statham, B.N. Sacks, J.D. Perrine, and S.M. Wisely.
- Annual Meeting of the Society for Northwestern Vertebrate Biology, Medford, Oregon. February 2010. The origin of putative non-native red foxes in the contiguous United States: translocations or natural range expansions? Statham, M.J., B.N. Sacks, K.B. Aubry, J.D. Perrine, S.M. Wisely.
- Annual Meeting of the Society for Northwestern Vertebrate Biology, Medford, Oregon. February 2010. North American montane red foxes: expansion, fragmentation, and the origin of the Sacramento Valley red fox. Sacks, B.N., M.J. Statham, K.B. Aubry, J.D. Perrine, S.M. Wisely, H. Wittmer, M. Moore.
- Carnivores 2009. November 2009. Landscape genetics meets phylogeography: evolutionary relationships, recent history, connectivity, and the trajectory of southwestern red fox populations. Sacks, B.N., M. Moore, M. Statham, S. Brown, H. Wittmer, K. Aubry, S. Wisely, J. Perrine.
- Carnivores 2009. November 2009. The origin of putative nonnative red foxes in the contiguous United States: Translocations or natural range expansions? Statham, M.J., B.N. Sacks, K.B. Aubry, J.D. Perrine, S. M. Wisely.

Carnivores 2009. November 2009. Phylogeography of the North American red fox: vicariance in Pleistocene forest refugia. Aubry, K.B., M.J. Statham, B.N. Sacks, J.D. Perrine, S. M. Wisely.

Prairie Grouse Technical Council Meeting (28th), Portales, New Mexico. October 2009. The use of population genetics to inform prairie-chicken management. Gregory, A.J., S.M. Wisely, L.B. McNew, and B.K. Sandercock.

Prairie Grouse Technical Council Meeting (28th), Portales, New Mexico. October 2009. Location of greater prairie-chicken nests in relation to wind power development in Kansas. McNew, L.B., A.J. Gregory, S.M. Wisely, and B.K. Sandercock.

International Conference on Rabies in the Americas. October 2009. Landscape epidemiology in a changing environment: Forecasting the influence of exurbanization on the emergence of rabies. Wisely, S.M., S. Bowe, A. Sydney, P. Schumm*, C. Scoglio.

Central Plains Society of Mammalogists. October 2009. Reintroduction of Black-footed Ferrets into Northwest Kansas. Mulhern, D. and S. Wisely

International Wader Study Group (Annual Conference 2009), Den Burg, Texel, Netherlands. September 2009. Sexual differences in parental care of Upland Sandpipers. Sandercock, B.K., J.E. Mendoza*, A.E. Casey, and S.M. Wisely.

The Wildlife Society Annual Conference. September 2009. Population Density and Distribution of White Tailed Deer (*Odocoileus virginianus*) on Konza Prairie Biological Station, Kansas. Gugler, R.C.*, A.C. Siders*, S.M. Wisely, The Wildlife Society Student Chapter.

The Wildlife Society Annual Conference. September 2009. The origin of low-elevation red foxes in the contiguous United States: Translocations or natural range expansions? Statham, M.J., B.N. Sacks, K.B. Aubry, J. D. Perrine, S. M. Wisely

The Wildlife Society Annual Conference. September 2009. Landscape epidemiology in a changing environment: The influence of land use and virulence on the emergence of rabies. Wisely, S.M., S. Bowe, A. Sydney, P. Schumm*, C. Scoglio.

The Wildlife Society Annual Conference. September 2009. Life history strategies across a gradient of human landscape alteration: Comparative demography of Greater Prairie-chicken populations in Kansas. McNew, L.B., A.J. Gregory, B.K. Sandercock, and S.M. Wisely.

The Wildlife Society Annual Conference. September 2009. Conservation genetics and breeding biology of the Rock Ptarmigan. Gregory, A., McNew, L., B.K. Sandercock, S.M. Wisely.

The Wildlife Society Annual Conference. September 2009. Winter denning habits of striped skunks informs the disease ecology of rabies. Shields, P.*, S. Bowe, and S. Wisely.

All Scientists Meeting, National Science Foundation Long Term Ecological Research Program. 13-17 September 2009. A Call for Collaborators: Developing a One Health Initiative across the LTER Network. Wisely, S.M., D. van der Merwe, B. Montelone, K. Harkin, L. Freeman.

International Conference of the Wildlife Disease Association. August 2009. Landscape epidemiology in a changing environment: The influence of land use patterns and viral properties on the emergence of rabies. Wisely, S.M., S. Bowe, A. Sydney, P. Schumm*, C. Scoglio.

International Conference of the Wildlife Disease Association. August 2009. Molecular epidemiology of rabies in the central Great Plains: Do host ecology and landscape influence viral emergence? Barton, H.D., S. M. Wisely, R. Davis, C. Hanlon.

International Conference of the Wildlife Disease Association. August 2009. Key players in human rabies exposure from case data, 1998-2008, and the implications for public health. Ganser, C.*, H.D. Barton, S.M. Wisely, S. Moore, C. A. Hanlon.

International Society of Biogeography. January 2009. Phylogeography of the North American red fox. Statham, M.J., K.B. Aubry, B.N. Sacks, J.D. Perrine, S.M. Wisely.

International Society of Biogeography. January 2009. The use of population genetics to evaluate landscape permeability. Gregory, A., L. McNew, B.K. Sandercock, S.M. Wisely. ***Andy won best student presentation!**

International Society of Biogeography. January 2009. Rabies epidemiology in the Midwestern United States: Construction of contact networks to predict the influence of host ecology and landscape heterogeneity on disease spread. Bowe, S., S.M. Wisely, A. Sydney, P. Schumm*, C. Scoglio.

International Society of Biogeography. January 2009. Does landscape influence viral emergence in the central Great Plains? Barton, H.D., S.M. Wisely, R. Davis.

International Society of Biogeography. January 2009. Biogeography of capybara (*Hydrochaeris hydrochaeris*) in the Chaco region of Paraguay. Campos, J.M. and S.M. Wisely.

The Wildlife Society. November 2008. Prevalence and biogeography of genetic susceptibility to Chronic Wasting Disease in white-tailed deer from Kansas. Wisely, S.M., M. Statham, A. Mattox*, L. Fox, J. Cully.

The Wildlife Society. November 2008. Rabies host ecology of the striped skunk (*Mephitis mephitis*): Modeling disease spread and exposure risk in the Flint Hills. Bowe, S.E., S. M. Wisely, A. Sydney, P. Schumm, and C. Scoglio

Centers for Disease Control-Rabies in the Americas. October 2008. The role of landscape barriers, pathogen evolution and host ecology in rabies emergence. Wisely, S.M., R. Davies, H. Barton.

European Wildlife Disease Association. October 2008. Evaluating barriers and corridors to raccoon (*Procyon lotor*) strain rabies movement in Cleveland, Ohio, USA: research update. Berentsen, A., M. Dunbar, C. Fitzpatrick, S. Wisely.

International Grouse Symposium (11th), Whitehorse, Yukon Territory. September 2008. The link between Greater Prairie-chicken genetic structure and landscape configuration. Gregory, A.J., L.B. McNew, B.K. Sandercock, and S.M. Wisely.

International Grouse Symposium (11th), Whitehorse, Yukon Territory. September 2008. Demography of Greater Prairie-chickens at the core of their range: regional variation in population dynamics and vital rate contributions. McNew, L.B., A.J. Gregory, B.K. Sandercock, and S.M. Wisely.

International Grouse Symposium. September 2008. Demography and genetics of a reintroduced population of Evermann's Rock Ptarmigan in the Aleutian Islands. Sandercock, B.K., Kaler, R.S.A., Ebbert, S.E., Braun, C.E., Gregory, A.J., Prebyl, T.J.*, Wisely, S.M.

Joint meeting of the American Ornithologists' Union (126th), Cooper Ornithological Society (78th), and the Society of Canadian Ornithologists (28th), Portland, Oregon. August 8, 2008 Molecular analysis of the breeding system in the Upland Sandpiper. Casey, A.E., B.K. Sandercock, and S.M. Wisely.

Joint meeting of the American Ornithologists' Union (126th), Cooper Ornithological Society (78th), and the Society of Canadian Ornithologists (28th), Portland, Oregon. August 8, 2008 (symposium). Effects of wind power development on the ecology of prairie grouse. Hagen, C.A., L.B. McNew, A.J. Gregory, B.K. Sandercock, and S.M. Wisely.

American Society of Mammalogy. June 2008. The role of landscape barriers, pathogen evolution, and host ecology in rabies emergence. Wisely, S.M., H.D. Barton, R. Davis.

American Society of Mammalogy. June 2008. Landscape ecology of capybara in the Chaco region of Paraguay. Campos, J.M., S.M. Wisely, D. Merritt.

International Conference on Emerging Infectious Diseases. March 2008. Landscape barriers, pathogen evolution and host ecology contribute to rabies emergence in the Midwest. Wisely, S.M., H.D. Barton, R. Davis.

International Conference on Emerging Infectious Diseases. March 2008. Landscape Genetics of Genetic Susceptibility of White-Tailed Deer to Chronic Wasting Disease: Implications for CWD Emergence Across Kansas. Statham, M.J., S.M. Wisely, A. Mattox*, L. Fox, J. Cully.

International Conference on Emerging Infectious Diseases. March 2008. Molecular epidemiology of cross-species transmission of rabies in the Central Great Plains. H.D. Barton, S.M. Wisely, and R. Davis.

International Conference on Emerging Infectious Diseases. March 2008. Striped Skunk (*Mephitis mephitis*) Host Ecology in Urban and Rural Habitats: Modeling Exposure Risk to Rabies in the Midwest. Bowe, S.E., S.M. Wisely, C. Scoglio, P. Schumm*, and A. Sydney.

Kansas Natural Resource Conference. February 2008. Landscape connectivity of the Flint Hills for Greater Prairie Chickens. Prebyl, T.J.*, A. J. Gregory, S.M. Wisely.

Kansas Natural Resource Conference. February 2008. Population Monitoring of White-tailed Deer on Konza Prairie Biological Station Lantz, B*, T. Prebyl*, S.M. Wisely, KSU Student Chapter of The Wildlife Society.

Kansas Natural Resource Conference. February 2008. Association with humans and urban sprawl as driving forces of woody encroachment on Kansas prairies. Gregory, A.J., D. Goodin, S. M. Wisely.

Kansas Natural Resource Conference. February 2008. Comparing host-pathogen population structures: Implications for rabies management in striped skunks. Barton, H.D., S.M. Wisely, and R.Davis.

Kansas Natural Resource Conference. February 2008. Rabies host ecology on a tall-grass prairie: The role of trees in striped skunk (*Mephitis mephitis*) habitat selection Bowe, S.E., S.M. Wisely.

Western Section of the Wildlife Society. February 2008. Quaternary zoogeography of a North American boreal carnivore: evolution of the montane red foxes. Aubry, K.B., M.J. Statham, B.N. Sacks, J.D. Perrine, S.M. Wisely.

Ecological Genomics Symposium. November 2007. Hybrid molecules result from small deletions on the CHD-Z intron, but cause big errors in avian sexing analyses Casey, A.E.*, B.K. Sandercock, K.L. Jones & S.M. Wisely

The Wildlife Society National Meeting. September 2007. The Role of Host Ecology in the Genomic Epidemiology of Rabies in the Central Great Plains, Wisely, S.M., H. D. Barton, R.Davis.

The Wildlife Society National Meeting. September 2007. Male Greater Prairie-Chicken (*Tympanuchus cupido*) Reproductive Success is Linked to Genetic Diversity. Gregory, A.J. J. Nooker, B. Sandercock and S. Wisely.

Long-Term Ecological Research Grant Renewal Workshop. September 2007. Risk assessment of rabies in the face of changing land use practices, Bowe, S.E., S. M. Wisely, J. Harrington.

National Wildlife Federation National Meeting. September 2007. The effect of reintroduction history on the genetic health of elk, Conard, J., P. Gipson, S.M. Wisely.

Rabies in the Americas Conference. September 2007. The Role of Host Ecology in the Genomic Epidemiology of Rabies in the Central Great Plains, R. Davis, H.D. Barton, and S.M. Wisely.

Midwestern Furbearers Conference. September 2007. Biogeography of red fox in North America. Statham, M.J., K. Aubry, B. Sacks, S.M. Wisely.

Midwestern Furbearers Conference. September 2007. Population Dynamics of Rabies and its Host Species, the Striped Skunk Barton, H.D., S. M. Wisely, and R. Davis.

Center for Disease Control International Rabies Day. September 2007. The Role of Host Ecology in the Genomic Epidemiology of Rabies in the Central Great Plains, R. Davis, H. D. Barton, and S. M. Wisely.

Merck-Merial National Veterinary Scholar Symposium. August 2007. Ecotoxicogenomics of Fecal Bacteria of Deer Mice (*Peromyscus maniculatus*) in a Former Mining Community. Lambo, C. G. Peterson, S. Narayanan, S. Wisely.

American Ornithological Union, National Meeting. August 2007. Male Greater Prairie-Chicken (*Tympanuchus cupido*) Reproductive Success is Linked to Genetic Diversity. Gregory, A.J., J. Nooker, B. Sandercock and S. Wisely.

American Ornithological Union, National Meeting. August 2007. Multiple alleles cause sexing errors in a monomorphic shorebird, Casey, A.*, B. Sandercock, K. Jones and S. Wisely.

Kansas Department of Wildlife and Parks Chronic Wasting Disease Workshop. July 2007. Landscape Genetics of White-Tailed Deer and the Implications for the Spread of Chronic Wasting Disease Across Kansas, Wisely, S.M., M. Statham, A. Mattox*, L. Fox, J. Cully.

- Kansas State University, Division of Biology, Graduate Student Research Forum. April 2007. Population Genetics of Striped Skunks: Implications for Rabies Dynamics. Barton, H.D., Wisely, S.M., and Davis, R.
- Kansas State University, Student Research Symposium. April 2007. Genetic diversity lost and gained: conservation genetics of the black-footed ferret. Mueting, S.A.*, Wisely, S.M., Van Pelt, W.
***Sara won best undergraduate student presentation!**
- Kansas Chapter of the Wildlife Society Spring Meeting. February 2007. The potential for habitat fragmentation to alter Prairie Chicken genetic structure in Kansas. Gregory, A., Wisely, S.M., Sandercock, B.K., McNew, L.B.
- Kansas Chapter of the Wildlife Society Spring Meeting. February 2007. Population Genetics of Striped Skunks: Implications for Rabies Dynamics, Barton, H.D., Wisely, S.M., and Davis, R. **Heather won best graduate student presentation!**
- Kansas Chapter of the Wildlife Society Spring Meeting. February 2007. Are Midwestern red fox native? Phylogeography of red fox in North America. Statham, M.J., Wisely, S.M., Aubry, K., Sacks, B.N.
- Kansas Chapter of the Wildlife Society Spring Meeting. February 2007. The microevolution of Interleukin-6 in an immunocompromised species, the black-footed ferret. Mueting, S.A., Brown, S.J., Wisely, S.M.
- Kansas Chapter of the Wildlife Society Spring Meeting. February 2007. Estimates of adult apparent survival for a native grassland shorebird. Casey, A.E.*, B.K. Sandercock and S. M. Wisely.
- Kansas Chapter of the Wildlife Society Spring Meeting. February 2007. Evolutionary consequences of heavy metal contamination to deer mice and their intestinal microbial community. Wisely, S.M., Narayanan, S., With, K.A., Brown, S.J.
- International Symposium on Altered Landscapes. February 2007. Evolutionary consequences of heavy metal contamination to deer mice and their intestinal microbial community. Wisely, S.M., Narayanan, S., With, K.A., Brown, S.J.
- Ecological Genomics Symposium. November 2006. The role of host ecology in the microevolution of rabies virus. Barton, H.D., Wisely, S.M., Davis, R.
- Ecological Genomics Symposium. November 2006. The characterization of CHD-Z polymorphism and associated fitness costs in the Upland Sandpiper. Casey, A.E.*, Statham, M.J., Sandercock, B.K., Wisely, S.M.
- Ecological Genomics Symposium. November 2006. Differential gene expression in small mammals exposed to heavy metals. Delamaide, J., Crawford, L., Narayanan, S., Wisely, S.M., Jones, K.L., Coolon, J.D., Brown, S.J.
- Ecological Genomics Symposium. November 2006. Microbial diversity in intestine of small mammals and soil of the Tri-State Mining District. Crawford, L., Delamaide, J., Narayanan, S., Wisely, S.M., Jones, K.L., Coolon, J.D., Brown, S.J.
- Ecological Genomics Symposium. November 2006. The microevolution of interleukin-6 in an immunocompromised species, the black-footed ferret. Mueting, S.A.*, Wisely, S.M., Brown, S.J., Howard, J.G., Statham, M.J., Phillips, T.M.
- Ecological Genomics Symposium. November 2006. Adaptive divergence, genetic drift, and incipient speciation in the grasshopper, *Hesperotettix viridis*. Apple, J.L., Joern, A., Sword, G., Wisely, S.M.
- Carnivore Conference, Defenders of Wildlife. November 2006. The role of host ecology in the microevolution of rabies virus. Barton, H.D., Wisely, S.M., Davis, R.
- Carnivore Conference, Defenders of Wildlife. November 2006. Genetic diversity lost and gained: conservation genetics of the black-footed ferret. Wisely, S.M., Mueting, S.A.*, Santymire, R.M., Livieri, T.M., Howard, J.G., Van Pelt, W.
- National Wind Coordinating Committee, Wildlife working Group Conference. November 2006. The Genetic Consequences of Wind Power Development on Greater Prairie Chicken Leaks of Eastern Kansas. Gregory, A.J., Wisely, S.M., Sandercock, B.K.

Western Sandpiper Workshop, Burnaby, British Columbia. December 2006. Polymorphic introns lead to sexing errors in a monomorphic wader. Sandercock, B.K., A.E. Casey*, and S.M. Wisely. (b)

International Wader Study Group (Annual Conference 2006), Höllviken, Sweden. October 2006. Polymorphic introns lead to sexing errors in a monomorphic wader. Sandercock, B.K., A.E. Casey*, and S.M. Wisely.

Natural Resources Symposium of the Sacramento-Shasta Chapter of the Wildlife Society. October 2006. Is the Sacramento Valley red fox an overlooked native population? Sacks, B., Aubry, K., Perrine, J., Pollinger J., Statham, M., Wayne, R., Wisely, S.

American Genetics Association, Genetics of Speciation Symposium. June 2006. Adaptive divergence, genetic drift, and incipient speciation in the grasshopper, *Hesperotettix viridis*. Apple, J.L., Joern, A., Sword, G., Wisely, S.M.

American Association of Zoo Veterinarians. June 2006. Biomedical survey of wild black-footed ferrets (*Mustela nigripes*). Howard, J.G., S.M. Wisely, R. M. Santymire, T.M. Livieri, S. A. Williams, J.S. Kreeger, P.E. Marinari, D.E. Wildt, and E. S. Williams.

Undergraduate Research Symposium. April 2006. Genetic diversity lost and gained: conservation genetics of the black-footed ferret. Mueting, S.*, S. Wisely, R. Santymire, T. Livieri, J.G. Howard.

Undergraduate Research Symposium. April 2006. Conservation genetics of Northern Bobwhite Quail in southeastern Kansas. Fredrickson, C.*, S. Wisely, T. Strakosh, B. Flock, P. Gipson, and R. Applegate.

Undergraduate Research Symposium. April 2006. Optimization of molecular methods for sexing shorebirds. Casey, A.*, K. Kiefer*, S. Wisely, B. Sandercock.

Undergraduate Research Symposium. April 2006. Phylogeography of red fox in North America. Maddox, A.*, M. Statham, K. Aubry, S. Wisely.

Kansas Chapter of The Wildlife Society. March 2006. Genetic diversity lost and gained: conservation genetics of the black-footed ferret. MuetingS.*, S. Wisely, R. Santymire, T. Livieri, J.G. Howard. ***Sara won best undergraduate presentation at the meeting!**

North American Shorebird Conference. March 2006. Optimization of molecular methods for sexing shorebirds. Casey, A.*, K. Kiefer*, S. Wisely, B. Sandercock.

Genes in Ecology, Ecology in Genes, Overland Park, KS. November 2005. Ecotoxicogenomics of a small mammal community exposed to heavy metals. Wisely, S.M., S. Brown, D. Gasper, C. Patricola-Simpson*, S. Narayanan.

Central Plains Society for Mammalogists, Kirksville, MO, October 2005. Conservation genetics of the black-footed ferret: genetic diversity lost and gained. Mueting, S.* and S. Wisely.

Central Plains Society for Mammalogists, Kirksville, MO, October 2005. Winter densities of white-tailed deer at Konza Prairie. Brinkley, P.*, S. Wisely, K. Kiefer*, T. Mong, B. Sandercock.

Central Plains Society for Mammalogists, Kirksville, MO, October 2005. A new technique of capturing and monitoring animal movement of capybara in South America. Campos, J.M., S. Wisely, I. Rivera, R. Golightly and A. Mutlow.

Central Plains Society for Mammalogists, Kirksville, MO, October 2005. Ecotoxicogenomics of a small mammal community exposed to heavy metals. Patricola-Simpson, C.*, S. Wisely, S. Brown, D. Gasper, S. Narayanan.

Kansas Chapter of The Wildlife Society, Emporia, KS, March 2005. Reintroduction history affects genetic diversity and morphology of the black-footed ferret. Wisely, S.M., R.M. Santymire, T.M. Livieri, and J.G. Howard.

Defenders of Wildlife Conference, Santa Fe, NM, November 2004. Biomedical Survey of Wild Black-Footed Ferrets. Howard, J.G., S.M. Wisely, R. M. Santymire, T. M. Livieri, J. S. Kreeger, P.E. Marinari, D.E. Wildt and E.S. Williams.

Defenders of Wildlife Conference, Santa Fe, NM, November 2004. Reintroduction History Affects Genetic Diversity and Morphology of the Black-Footed Ferret. Wisely, S.M., R. M. Santymire, T. M. Livieri, and J.G. Howard.

Defenders of Wildlife Conference, Santa Fe, NM, November 2004. Seminal Characteristics of Wild Black-Footed Ferrets. Santymire, R.M., J.G. Howard, S. M. Wisely, T. M. Livieri, J. S. Kreeger, P. E. Marinari And D. E. Wildt.

Genes in Ecology, Ecology in Genes, Overland Park, KS October 2004. Reintroduction History Affects Genetic Diversity and Morphology of the Black-Footed Ferret. Wisely, S.M., R.M. Santymire, T. M. Livieri, and J.G. Howard.

4th Annual International Symposium on *Martes*. Lisbon, Portugal. July 2004. Conservation genetics of the fisher: consequences to natural resource management. Wisely, S.M., S. W. Buskirk, G. Russell, K. Aubry, and W. Zielinski.

American Society of Mammalogy, Arcata, California. June 2004. From captivity to the wild: further changes in black-footed ferret morphology. Wisely, S.M., R.M. Santymire, J.G. Howard, T.M. Livieri, J.S. Kreeger, P.E. Marinari And D.E. Wildt.

American Society of Mammalogy, Arcata, California. June 2004. Historical changes to black-footed ferret morphology. Wisely, S.M., J.J. Ososky, S.W. Buskirk.

American Society of Mammalogy, Arcata, California. June 2004. Phylogeography and genetic structure of the Pacific fisher. Wisely, S.M., S.W. Buskirk, G. Russell, K. Aubry, and W. Zielinski.

Black-Footed Ferret Symposium, Ft. Collins, CO. January 2004. Genetic diversity in the black-footed ferret: Past, present and future. Wisely, S.M. and R.C. Fleischer.

Black-Footed Ferret Symposium, Ft. Collins, CO. January 2004. Biomedical Survey of Wild Black-Footed Ferrets. Howard, J.G., S.M. Wisely, R.M. Santymire, T.M. Livieri, J. S. Kreeger, P.E. Marinari, D.E. Wildt and E.S. Williams.

Lectureships:

Wildlife and Fisheries Conservation – Kansas State University. Co-taught this junior level class. Enrollment ~75. 2005-2010.

Organismic Biology – KSU. Co-taught this freshman level class. Enrollment ~175. 2005-2011.

Population Biology – KSU. Developed this senior level class. Enrollment ~25. 2007-2008.

Microsatellite Markers – KSU. Developed this graduate class. Enrollment =15. 2005.

Field Ecology – University of Wyoming. Developed this senior level class. Enrollment ~10. 1998-2000.

Guest Lectureships:

University of Florida, WEC Wildlife Diseases Guest Lectures. Wildlife Disease Management, Diseases of Mustelids. 2017-2022

University of Florida, WEC Conservation Genetics Guest Lecture. Conservation Genetics of the Black-footed Ferret. 2012-2022

University of St. George's College of Veterinary Medicine, Grenada. Conservation Medicine in Carnivores. November 2013.

Kansas State University College of Veterinary Medicine (KSUCVM). Dept. of Pathology. Emerging Diseases. I lectured on Disease Ecology. 2007-2011.

KSUCVM. Pathways to Public Health. Undergraduate Summer Research Experience. I lectured on the role of zoonotic disease in public health. 2010-2011.

Current Advisees at UF:

Post docs

Sebastian Botero

Graduate Students:

Savannah Grace, Ph.D. student, Genetic resistance to epizootic hemorrhagic disease virus in white-tailed deer. Expected Summer 2024

Carson Torhorst, M.S. student, Trypanosoma cruzi in Florida wildlife. Expected Fall 2022

Nicholas Canino, MS/BS dual degree. Soft tick ecology. Degree expected 2025

Master of Health Science Intern

None

Other Graduate Students Contributing to My Lab:

Ke Cheng. Avian malaria in shorebirds

Undergraduate Students:

Travis LaReia

Interns:

None

Past Advisees:

Postdoctoral Researchers:

Geraldine Klarenberg, Demography of ticks

Katherine Saylor, Ecology of hemorrhagic disease in Cervidae.

Mark Statham, Phylogeography of red fox in North America.

Michael Westphal, (co-advised with Ted Morgan) Genetic architecture of adaptive melanism in a grassland snake species. Biologist for BLM.

Jennifer Apple, Host race formation in *Hesperotettix viridis*. Currently Asst. Professor at SUNY Geneseo.

Graduate Students:

Kimberly Ledger, Ph.D. student, Tick ecology in southern Africa. Graduation Expected Summer 2021.

Carrie De Jesus, Ph.D. student, Tick ecology in Florida.

Brandon Parker, M.S. Student, Torque teno as a model system of transmission in feral swine.

Karen Hood, M.S. non thesis student.

Shannon Moore, M.S. from UF, Molecular ecology of cattle egrets.

Alli Cauvin, M.S. from UF. Health predictors of neonate white-tailed deer.

Mary Leigh Morris Merrill, Ph.D from UF. Disease ecology of Florida cattle ranches.

Claudia Ganser, Ph.D. from UF, Avian malaria in Arctic-breeding Shorebirds

Felipe Hernández, Ph.D. from UF, Effects of contaminants on pathogen communities of feral swine

Courtney Bounds, non-thesis M.S. student

Brittany Bankovich, M.S. from UF. Ecological and economic impacts of feral swine in Florida.
Employed by FFWC.

Sieara Claytor, M.S. from UF. The influence of global change on amphibian diseases. Admitted to PhD program, James Cook University

Claudia Ganser, M.S. from KSU, PhD from UF. Vector ecology in the Great Plains. Employed as a research scientist at UF.

Zachary Lounsbury, M.S. from KSU, Conservation genetics of Buff-breasted Sandpiper. Employed in bioscience.

Lance McNew*, Ph.D. from KSU. Demography of the Greater Prairie-chicken. Asst. Professor at Montana State University

Andrew Gregory*, Ph.D. from KSU. Landscape genetics of the Greater Prairie-chicken. Asst. Professor at Texas Tech University.

Heather Barton, Ph.D. from KSU, Phylogeography of rabies and its host, the striped skunk. Asst. Professor at Grove City College.

Juan Campos, Ph.D. from KSU, Biogeography of capybara in Paraguay. Asst. Prof at UF

Sarah Bowe, M.S. from KSU, Risk assessment of rabies exposure in the Midwest. Lost to follow up.

Ashley Casey*, M.S. from KSU, Breeding biology and mating system of Upland Sandpiper. Employed in bioscience.

*co-advised with Brett Sandercock

Other Graduate Students Contributing to My Lab:

Sarah Maestras, Ph.D. student (E&N), Ectoparasites of wildlife along the rural to urban gradient

Jane Anderson, Ph.D. student, Diseases of invasive macaques of Florida

Rachel Pigg, Ph.D. student, Landscape genetics of Black-tailed Prairie Dog

Emilie Blevins, M.S. Landscape genetics of collared lizards in the Flint Hills.

Tony Grace, Ph.D., Host race formation in the grasshopper, *Hesperotettix viridis*.

Page Klug, Ph.D., Landscape genetics of Yellow-bellied Racers

Jonathan Conard, Ph.D., Landscape genetics of an elk herd on Ft. Riley Army Base

Khara Strum, M.S., Molecular sexing of Buff-breasted Sandpipers

Ron Van Nimmwiggen, Ph.D. Landscape genetics of the grasshopper mouse

Veterinary Student Research:

University of Florida:

Sarah Flanders

Timothy O'Leary

William Smith

Hillary Leonardo

Kansas State University:

Kelsey Schroeder. Surveillance of mosquitos for avian malaria.

Lauren Bodenhamer. Environmental variation in mosquito community dynamics.

Caitlin Burrell. Pathology of Greater Prairie-chicken.

Anne-Catrin Geuthner. Pathology of the striped skunk.

Colleen Lambo. Ecotoxicogenomics of small mammals.

Joy Delamaide, Ecotoxicogenomics of small mammals.

Lindsey McKinsey, Ecotoxicogenomics of small mammals. (coadvised with S.J. Brown).

David Gasper, Ecotoxicogenomics of small mammals. Pathology residency program, UC Davis.

Other Internships

Hannah Barber, CHeRI Gap Year Intern

Morgan Walker, CHeRI Gap Year Intern

Danielle Hulvey, Environmental and Global Health, One Health Intern

Kristen Wilson, Masters Health Science, PHHP, UF

Katherine Buschang, Masters Health Science, PHHP, UF

Undergraduates:

Catalina Corral, University Scholars Program, *Trypanosoma cruzi* in rodents

Gabriela Gonzalez, University Scholars Program, Sex determinants of malaria infection in cattle egrets.

Chanakya Bhosale, Prevalence of Ehrlichia in *Amblyoma americanum*.

Rayanne Dorleans, BRIDGES Program, Prevalence of Rickettsia in African ticks.

Joshuah Demitrius, SF2UF program, Health correlates in white-tailed deer.

Yasmin Tavares, Vaccine field trials in white-tailed deer
 Shelby LeClare, Termite responses to commercial agriculture in Eswatini
 Hanna Innocent, Emerging Scholars Program, Invasion ecology of cattle egrets
 Karen Hood, *Theileria* infection in farm-raised deer
 Celine Carneiro, Mesocarnivores in an agro-ecological landscape
 Shannon Moore, Trypanosomas of avian hosts in the Swaziland lowveld
 Andraya Mendez, Mark-recapture analysis of genets in Swaziland
 Jamie Nicholson, Avian malaria in shorebirds
 Samantha Gamble. Avian malaria in shorebirds.
 Paige Berry. Landscape genetics of Greater Prairie chicken.
 Cody Simmons. Prevalence of avian malaria in Greater Prairie-chickens
 Jasmine Sharp. Biogeography of Buff-breasted sandpiper.
 Alexia Sampson. Natural history of mosquito communities in Kansas.
 Hailey Peterson. Landscape genetics of Greater Prairie chicken. K-INBRE Scholar.
 Jorge Mendoza. Evaluating application requirements for graduate schools.
 Adam Siders. Density estimates of white-tailed deer on Konza Prairie Biological Station
 Claudia Ganser. Rate of human exposure to rabies in Kansas, 1998-2008. Cancer Center Scholar, K-INBRE Scholar
 Alyssa Maddox. Landscape genetics of white-tailed deer. Howard Hughes Medical Institute Scholar 2006. NASA Scholar 2006.
 Tom Prebyl. Landscape genetics of Greater Prairie-chicken. Mark Enloe Memorial Scholarship winner.
 Taryn Cipra. Conservation genetics of Kansas elk.
 Ashley Casey. Molecular sexing of Upland Sandpiper.
 Sarah Mueiting. Conservation genetics of black-footed ferret. Cancer Center Scholar
 Carissa Fredrickson. Conservation genetics of Bobwhite Quail.
 Katrina Kiefer. Howard Hughes Medical Institute Undergraduate Scholar. Molecular sexing of Upland Sandpipers. (Coadvised with Brett Sandercock). Currently a veterinary student at KSU.
 Charity Patricola-Simpson. Ecotoxicogenomics of a small mammal community.
 Jeremy Thornbrough. Research Experience for Undergraduates. Spotlight surveys of carnivores on Konza Prairie Biological Station.
 Ben Neely. Presence and distribution of mesocarnivores on Konza Prairie Biological Station. Currently a M.S. student at U. Nebraska.