

Curriculum vitae
(*Abbreviated*)
Samantha M. Wisely

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Dept. of Wildlife Ecology and Conservation
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Research Interests: molecular ecology, biogeography, disease ecology, wildlife biology

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:

2011-present **Associate Professor**, Dept. of Wildlife Ecology and Conservation, University of Florida
2013-present **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
2004-present **Research Associate**, National Zoological Park, Smithsonian Institution
2012-2015 **Associate Director**, Ordway Swisher Biological Station, University of Florida
2010-2011 **Associate Professor**, Division of Biology, Kansas State University
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 (**Corresponding Author, *Undergraduate author):

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Hernández, F., Oldenkamp, R., Webster, S., Beasley, J. Farina, L., Wisely, S.M.** Are raccoons (*Procyon lotor*) and their intestinal helminths sensitive to metal/metalloid contamination? – An ecosystem health perspective. Archives of Environmental Chemistry and Toxicology. In revision.
Merrill, M.M., Lord, C.C., Turner, E.L., Boughton, R., Hernández, F.A., Wisely, S.M.** 2016. Ixodid ticks on feral swine and other mammals in south-central Florida. Proc. Vert. Pest Conf. In press.
Sayler, K.A., Boyce, C.L., Wisely, S.M.** 2016. Porcine viruses not previously reported in feral swine in Florida. Proc. Vert. Pest Conf. In press
Wisely, S.M. 2016. Genome resource banks pay conservation dividends. Animal Conservation 19:114-115. DOI: [10.1111/acv.12272](https://doi.org/10.1111/acv.12272)
Ganser, C., Gregory, A.J., Hunt, L., McNew, L.B., Sandercock, B.K., Wisely, S.M.** 2016. Fine-scale spatial epidemiology of avian malaria in a grassland ecosystem: disease hazard and risk to grassland birds. Journal of Vector Ecology 41:114-122. DOI: [10.1111/jvec.12202](https://doi.org/10.1111/jvec.12202)
Pepin, K.M., Davis, A.J., Beasley, J., Boughton, R., Campbell, T., Cooper, S.M., Gaston, W., Kilgo, J.C., Wisely, S.M., Wycoff, C., VerCauteren, K.C. 2016. Contact heterogeneities in feral swine:

- implications for disease management and future research. *Ecosphere* 7:e01230.
DOI: [10.1002/ecs2.1230](https://doi.org/10.1002/ecs2.1230)
- Bankovich, B., Boughton, E., Boughton, R., Avery, M., Wisely, S.M.** 2016. Plant community shifts caused by feral swine rooting devalue South Florida rangelands. *Agriculture, Ecosystems, and the Environment* 220:45-54. DOI: [10.1016/j.agee.2015.12.027](https://doi.org/10.1016/j.agee.2015.12.027)
- Wisely, S.M.**, Ryder, O.A., Santymire, R.M., Engelhardt, J.F., Novak, B.J. 2015. A road map for 21st century genetic restoration: gene pool enrichment of the black-footed ferret. *Journal of Heredity* 106:581-592. DOI: [10.1093/jhered/esv041](https://doi.org/10.1093/jhered/esv041)
- Campos Krauer, J.M.**, Wisely, S.M., Benítez, I.K., Robles, V.* 2015. Surgical technique for placing intra-abdominal radio-transmitters in capybara (*Hydrochaeris hydrochaeris*). *Paraquaria Natural* 3:17-19.
- Miller, S., Zieger, U., Ganser, C., Satterlee, S.A., Bankovich, B., Amadi, V., Hariharan, H., Stone, D., Wisely, S.M.** 2015. The Influence of Land Use and Climate on Salmonella Carrier Status in the Small Indian Mongoose (*Herpestes auropunctatus*) in Grenada, West Indies. *Journal of Wildlife Diseases* 51:60-68. DOI: [10.7589/2014-02-046](https://doi.org/10.7589/2014-02-046)
- Caldus, Marcellus M.**, Goodin, Douglas G., Sherwood, Steven, Campos Krauer, Juan M. and Wisely, Samantha M. 2015. Land-cover change in the Paraguayan Chaco: 2000-2011. *Journal of Land Use Science* 10:1-18. DOI: [10.1080/1747423X.2013.807314](https://doi.org/10.1080/1747423X.2013.807314)
- Peng, X., Alfoldi, J., Gori, K., Einfeld, A.J., Tyler, S.R., Tisoncik-Go, J., Brawand, D., Law, G.L., Skunca, N., Hatta, M., Gasper, D.J., Kelly, S.M., Chang, J., Thomas, M.J., Johnson, J., Berlin, A.M., Lara, M., Russell, P., Swofford, R., Turner-Maier, J., Young, S., Hourlier, T., Aken, B., Searle, S., Sun, X., Yi, Y., Suresh, M., Tumpey, T.M., Siepel, A., Wisely, S.M., Dessimoz, C., Kawaoka, Y., Birren, B.W., Lindblad-Toh, K., DiPalma, F., Engelhardt, J.F., Katze, M.G., Palmero, R.E. 2014. The draft genome sequence of the ferret (*Mustela putorius furo*) facilitates study of human respiratory disease. *Nature Biotechnology*. doi:10.1038/nbt.3079. DOI: [10.1038/nbt.3079](https://doi.org/10.1038/nbt.3079)
- Lounsbury, Z.T., Almeida, J.B., Grace, A., Lanctot, R.B., Liebezeit, J., Sandercock, B.K., Strum, K.M., Zack, S., Wisely, S.M.**. 2014. Museum collections reveal that Buff-breasted Sandpipers (*Calidris subruficollis*) maintained mtDNA variability despite large population declines during the past 135 years. *Conservation Genetics* 15: 1197-1208. DOI: [10.1007/s10592-014-0611-2](https://doi.org/10.1007/s10592-014-0611-2)
- McNew, L.B., L.M. Hunt, A.J. Gregory, S.M. Wisely, and B.K. Sandercock. 2014. Effects of wind energy development on the nesting ecology of Greater Prairie-Chickens in fragmented grasslands. *Conservation Biology* 28: 1089-1099. DOI: [10.1111/cobi.12258](https://doi.org/10.1111/cobi.12258)
- Tucker, J.M., Schwartz, M.K., Truex, R.L., Wisely, S.M., Allendorf, F.W. 2014. Sampling affects the detection of genetic subdivision and conservation implications for fisher in the Sierra Nevada. *Conservation Genetics* 15:123-136. DOI: [10.1007/s10592-013-0525-4](https://doi.org/10.1007/s10592-013-0525-4)
- Winder, V.L., L.B. McNew, A.J. Gregory, L.M. Hunt, S.M. Wisely, and B.K. Sandercock. 2013. Space use of female Greater Prairie-Chickens in response to wind energy development. *Ecosphere* 5(1):art3. DOI: [10.1890/ES13-00206.1](https://doi.org/10.1890/ES13-00206.1)
- Winder, V., McNew, L.B., Gregory, A., Hunt, L., Wisely, S.M., Sandercock, B.K. 2013. Effects of wind energy development on survival of female Greater Prairie-Chickens. *Journal of Applied Ecology* 51:395-405. DOI: [10.1111/1365-2664.12184](https://doi.org/10.1111/1365-2664.12184)
- Ganser, C., Wisely, S.M.** 2013. Patterns of spatio-temporal distribution, abundance, and diversity in a mosquito community from the eastern Smoky Hills of Kansas. *Journal of Vector Ecology* 38:229-236. DOI: [10.1111/j.1948-7134.2013.12035.x](https://doi.org/10.1111/j.1948-7134.2013.12035.x)
- Lounsbury, Z.T., Almeida, J.B., Grace, A., Lanctot, R.B., Liebezeit, J., Sandercock, B.K., Strum, K.M., Zack, S., Wisely, S.M.** 2013. Range-Wide Conservation Genetics of Buff-Breasted Sandpipers (*Tryngites subruficollis*). *Auk* 130:429-439. DOI: [10.1525/auk.2013.12206](https://doi.org/10.1525/auk.2013.12206)
- Santymire, R.M. **, Wisely, S.M., Livieri, T.M., Howard, J.G. 2012. Using canine width to determine age in the black-footed ferret, *Mustela nigripes*. *Small Carnivore Conservation* 46:17-21.

- Gregory, A.J., Kaler, R.S.A., Prebyl, T.J.*, Sandercock, B.K., Wisely, S.M.** 2012. Influence of founder effects and mating system on the breeding ecology and genetic structure of a newly established population of Island Ptarmigan. *Conserv Genet* (2012) 13: 465. DOI: [10.1007/s10592-011-0300-3](https://doi.org/10.1007/s10592-011-0300-3)
- McNew, L.B., Gregory, A.J., Wisely, S.M., Sandercock, B.K.** 2012. Demography of Greater Prairie-Chickens: Regional Variation in Vital Rates, Sensitivity Values, and Population Dynamics. *Journal of Wildlife Management*. *The Journal of Wildlife Management*, 76: 987–1000. DOI: [10.1002/jwmg.369](https://doi.org/10.1002/jwmg.369)
- Statham, M.J., Sackes, B.N., Aubry, K.B, Perrine, J.D., and Wisely, S.M.*. 2012. The origin of recently established red fox populations in the United States: Translocations or natural range expansions? *Journal of Mammalogy* 93(1):52-65. DOI: [10.1644/11-MAMM-A-033.1](https://doi.org/10.1644/11-MAMM-A-033.1)
- Barton, H.D., and Wisely, S.M.*. 2012. Phylogeography of striped skunks (*Mephitis mephitis*) in North America: Pleistocene dispersal and contemporary population structure. *Journal of Mammalogy* 93(1):38-51. DOI: [10.1644/10-MAMM-A-270.1](https://doi.org/10.1644/10-MAMM-A-270.1)
- Blevins, E.*, Wisely, S.M., and With, K.A. 2011. Historical processes and landscape context influence genetic structure in peripheral populations of the collared lizard (*Crotaphytus collaris*). *Landscape Ecol* (2011) 26: 1125. DOI: [10.1007/s10980-011-9631-1](https://doi.org/10.1007/s10980-011-9631-1)
- McNew, L.B., Gregory, A.J., Wisely, S.M., Sandercock, B.K.** 2011. Reproductive biology of a southern population of Greater Prairie-chickens. In *Studies in Avian Biology*, Vol. 39. Ecology, Conservation and Management of Grouse, eds. Sandercock, B.K., Martin, K., and Segelbacher, G., Pp. 209-222. ISBN: [9780520270060](https://doi.org/9780520270060)
- McNew, L.B., Gregory, A.J., Wisely, S. M., Sandercock, B.K.** 2011. Human-mediated selection on life history traits of the Greater Prairie-chicken. In *Studies in Avian Biology*, Vol. 39. Ecology, Conservation and Management of Grouse, eds. Sandercock, B.K., Martin, K., and Segelbacher, G., Pp. 255-266. ISBN: [9780520270060](https://doi.org/9780520270060)
- Gregory, A.J., McNew, L.B., Prebyl*, T., Sandercock, B.K., Wisely, S.M.** 2011. Hierarchical modeling of lek habitats of Greater Prairie-chickens. In *Studies in Avian Biology*, Vol. 39. Ecology, Conservation and Management of Grouse, eds. Sandercock, B.K., Martin, K., and Segelbacher, G., Pp. 21-32. ISBN: [9780520270060](https://doi.org/9780520270060)
- Casey, A.E., Sandercock, B.K., Wisely, S.M.** 2011. Genetic parentage and local population structure in the socially monogamous Upland Sandpiper. *The Condor* 113(1):119-128. 2011 DOI: [10.1525/cond.2011.100100](https://doi.org/10.1525/cond.2011.100100)
- Klug, P.E.***, Wisely, S.M., With K.A. 2011. Population genetic structure and landscape connectivity of the Eastern Yellowbelly Racer (*Coluber constrictor flaviventris*) in the tallgrass prairie of northeastern Kansas. *Landscape Ecol* (2011) 26: 281. DOI: [10.1007/s10980-010-9554-2](https://doi.org/10.1007/s10980-010-9554-2)
- Campos-Krauer, J.M., Wisely, S.M.** 2011. Deforestation and cattle ranching drive rapid range expansion and secondary contact of vicariant populations of a semiaquatic rodent in the Gran Chaco ecosystem. *Global Change Biology*, 17: 206–218. DOI: [10.1111/j.1365-2486.2010.02193.x](https://doi.org/10.1111/j.1365-2486.2010.02193.x)
- Apple, J.L., Grace, T., Joern, A., St. Amand, P., Wisely, S.M.** 2010. Genome scan detects host-related divergent selection in the grasshopper *Hesperotettix viridis*. *Molecular Ecology*, 19: 4012–4028. DOI: [10.1111/j.1365-294X.2010.04792.x](https://doi.org/10.1111/j.1365-294X.2010.04792.x)
- Grace, T., Wisely, S.M., Brown, S.J., Dowell, F., Joern, A.** 2010. Divergent host plant adaptation drives the evolution of sexual isolation in the grasshopper *Hesperotettix viridis* (Orthoptera: Acrididae) in the absence of reinforcement. *Biological Journal of the Linnean Society*, 100: 866–878. DOI: [10.1111/j.1095-8312.2010.01458.x](https://doi.org/10.1111/j.1095-8312.2010.01458.x)
- Conard, J., Statham, M.J., Gipson, P.S., Wisely, S.M.**. 2010. The influence of translocation strategy and management practices on the genetic health of a re-established elk (*Cervus elaphus*) population. *Restoration Ecology*, 18: 85–93. DOI: [10.1111/j.1526-100X.2010.00660.x](https://doi.org/10.1111/j.1526-100X.2010.00660.x)
- Sacks, B.***, Statham, M.J., Perrine, J., Wisely, S.M., Aubry, K.B. 2010. North American montane red foxes: expansion, fragmentation, and the origin of the Sacramento Valley red fox. *Conserv Genet* (2010) 11: 1523. DOI: [10.1007/s10592-010-0053-4](https://doi.org/10.1007/s10592-010-0053-4)

- Barton, H.D., Gregory, A.J., Davis, R., Hanlon, C.A., Wisely, S.M.** 2010. Contrasting landscape epidemiology of two sympatric rabies virus strains. *Molecular Ecology*, 19: 2725–2738. DOI:[10.1111/j.1365-294X.2010.04668.x](https://doi.org/10.1111/j.1365-294X.2010.04668.x)
- Coolon, J.D., Jones, K.L., Narayanan, S., Wisely, S.M.** 2010. Microbial ecological response of the intestinal flora of *Peromyscus maniculatus* and *P. leucopus* to heavy metal contamination. *Molecular Ecology*, 19: 67–80. DOI:[10.1111/j.1365-294X.2009.04485.x](https://doi.org/10.1111/j.1365-294X.2009.04485.x)
- Grace, T., Joern, A., Apple, J.L., Brown, S.J., and Wisely, S.M.** 2009. Highly polymorphic microsatellites in the North American Snakeweed Grasshopper, *Hesperotettix viridis*. *Journal of Orthoptera Research* 18(1):19-21. 2009 DOI:[10.1665/034.018.0111](https://doi.org/10.1665/034.018.0111)
- Aubry, K.B., Statham, M.J., Sacks, B., Perrine, J., Wisely, S.M.** 2009. Phylogeography of the North American red fox: vicariance in Pleistocene forest refugia. *Molecular Ecology*, 18: 2668–2686. DOI:[10.1111/j.1365-294X.2009.04222.x](https://doi.org/10.1111/j.1365-294X.2009.04222.x)
- Dragoo, J., Coan, K., Moore, K., Henke, S., Fleischer, R., Wisely, S.M.** 2009. Polymorphic microsatellite markers for the striped skunk, *Mephitis mephitis*, and other mephitids. *Molecular Ecology Resources*, 9: 383–385. DOI:[10.1111/j.1755-0998.2008.02463.x](https://doi.org/10.1111/j.1755-0998.2008.02463.x)
- Casey, A.*, Sandercock, B., Jones, K., Wisely, S.M.** 2009. Heteroduplex molecules cause sexing errors in a standard molecular protocol for avian sexing. *Molecular Ecology Resources*, 9: 61–65. DOI:[10.1111/j.1755-0998.2008.02307.x](https://doi.org/10.1111/j.1755-0998.2008.02307.x)
- Wisely, S.M.**, Santymire, R.M., Livieri, T.M., Mueting, S.A.*, Howard, J.G. 2008. Genotypic and phenotypic consequences of reintroduction history: case study of the black-footed ferret. *Conserv Genet* (2008) 9: 389. DOI:[10.1007/s10592-007-9351-x](https://doi.org/10.1007/s10592-007-9351-x)
- Wisely, S.M.**, Howard, J.G., Williams, S.A., Bain, O., Santymire, R.M., Bardsley, K.D., Williams, E.S. 2008. An unidentified filarial species and its impact on fitness in wild populations of the black-footed ferret (*Mustela nigripes*). *Journal of Wildlife Diseases* 44(1):53-64. 2008 DOI:[10.7589/0090-3558-44.1.53](https://doi.org/10.7589/0090-3558-44.1.53)
- Wisely, S.M.**, Statham, M.J., Fleischer, R.C. 2008. Pleistocene refugium and Holocene expansion of a grassland dependent species, the black-footed ferret (*Mustela nigripes*). *Journal of Mammalogy* 89:87-96. DOI:[10.1644/07-MAMM-A-077.1](https://doi.org/10.1644/07-MAMM-A-077.1)
- Schwartz, M.K.**, Aubry, K.B., McKelvey, K.S., Pilgrim, K.L., Copeland, J.P., Squires, J.R., Inman, R.M., Wisely, S.M. 2007. Inferring Geographic Isolation of Wolverines in California Using Historical DNA. *The Journal of Wildlife Management*, 71: 2170–2179. DOI:[10.2193/2007-026](https://doi.org/10.2193/2007-026)
- Parker, M.W.**, Kress, S.W., Golightly, R.T., Carter, H.R., Parsons, E.B., Schubel, S.E., Boyce, J.A., McChesney, G.J., and Wisely, S.M. 2007. Assessment of social attraction techniques used to restore a Common Murre colony in central California. *Waterbirds* 30(1):17-28. 2007 DOI:[10.1675/1524-4695](https://doi.org/10.1675/1524-4695)
- Bronson E.**, Bush M., Viner T., Murray S., Wisely S.M., Deem S.L. 2007. Mortality of captive black-footed ferrets (*Mustela nigripes*) at Smithsonian's National Zoological Park: 1989-2004. *Journal of Zoo and Wildlife Medicine* 38(2):169-176. 2007 DOI:[10.1638/1042-7260](https://doi.org/10.1638/1042-7260)
- Li, Z., Sun, X., Chen, J., Liu, X., Wisely, S.M., Zhou, Q., Renard, J.P., Leno, G.H., Engelhardt, J.F.** 2006. Full-term development of ferret embryos cloned by cell nuclear transfer. *Developmental Biology* 293 (2006) 439–448 DOI:[10.1016/j.ydbio.2006.02.016](https://doi.org/10.1016/j.ydbio.2006.02.016)
- Wisely, S.M.** 2005. The genetic legacy of the black-footed ferret: past, present, and future. Pages 37-43 in *Recovery of the Black-Footed Ferret: Progress and Continuing Challenges*. [U.S.G.S. Scientific Investigations Report 2005-5293](https://www.fws.gov/Recovery/Black-Footed-Ferret/Progress-and-Continuing-Challenges)
- Wisely, S.M.**, Santymire, R.M., Marinari, P., Kreeger, J. Livieri, T., Wildt, D.E., Howard, J.G. 2005. Environment influences morphology and development of in situ and ex situ populations of the black-footed ferret. *Animal Conservation*, 8: 321–328. DOI:[10.1017/S1367943005002283](https://doi.org/10.1017/S1367943005002283)
- Buskirk, S.W. and Wisely, S.M. 2005. Appraising the conservation value of private lands. Pages 174-190 In: *Species at risk: using economic incentives to shelter endangered species on private lands*. J. Shogren, ed., Austin TX: University of Texas Press. ISBN:[9780292705975](https://doi.org/9780292705975)

- Aubry, K.***, Wisely, S., Raley, C. and Buskirk, S. 2004. Zoogeography, spacing patterns, and dispersal in fishers: insights gained from combining field and genetic data. Pages 201-220 in D.J. Harrison, A.K. Fuller, and G. Proulx, eds. *Martens and fishers (Martes) in human-altered environments: an international perspective*. Springer Science+Business Media, New York, NY. 279 pp. ISBN: [9780387226910](#)
- Wisely, S.M.***, Buskirk, S.W., Russell, G., Aubry, K. and Zielinski, W. 2004. Phylogeography and genetic diversity of the fisher (*Martes pennanti*) in a peninsular and peripheral metapopulation. *J Mammal* (2004) 85 (4): 640-648 DOI: [10.1644/BEL-011](#)
- Wisely, S.M.***, Maldonado, J.E., and Fleischer, R.C. 2004. Turbinal bones as a source of ancient DNA. *Conservation Genetics* 5:105-107 DOI: [10.1023/B:COGE.0000014061.04963.da](#)
- Wisely, S.M.*** and Golightly, R.T. 2003. Behavioral and ecological adaptations to water economy in two species of plethodontid salamander, *Ensatina eschscholtzii* and *Batrachoseps attenuatus*. *Journal of Herpetology* 37(4):659-665. 2003 DOI: [10.1670/5-03A](#)
- Wisely, S.M.***, McDonald, D.B., and Buskirk, S.W. 2003. Evaluation of the species survival plan and captive breeding program for the black-footed ferret. *Zoo Biology* 22:287-298 DOI: [10.1002/zoo.10089](#)
- Wisely, S.M.***, Fleming, M.A., McDonald, D.B., Buskirk, S.W., and Ostrander, E.A. 2002. Genetic diversity and fitness in black-footed ferrets before and during a bottleneck. *J Hered* (2002) 93 (4): 231-237 DOI: [10.1093/jhered/93.4.231](#)
- Wisely, S.M.***, Ososky, J.J., and Buskirk, S.W. 2002. Morphological changes to black-footed ferrets resulting from captivity. *Canadian Journal of Zoology*, 2002, 80(9): 1562-1568, DOI: [10.1139/z02-160](#)

Publications in Extension or the Popular Press

- 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. 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.

Grants and Awards:

Current Grants

- National Science Foundation. IRES: Changing Landscapes, Biodiversity, and Ecosystem Function in a Global Hotspot (in Africa). PI: Robert McCleery, co-PI's: Samantha Wisely, James Austin, Robert Fletcher.
- Cervidae Disease Research. \$2,000,000. Samantha Wisely, P.I. September 2014-May 2016. Florida Legislative Budget Request.

Invited Professional Presentations: (Recent)

- 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.

Professional Presentations (Presenter underlined. *Undergraduate author, Recent)

- 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. Sayler.
- 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. Sayler, 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., Sayler, 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. Sayler, 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., Sayler, 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., Milleon, 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.

- Mary M. Merrill*, 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., Saler, 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.*, Milleson, 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 seine 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.
- , 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.

Current Advisees at UF:

Graduate Students:

- Shannon Moore, M.S. student, Molecular ecology of cattle egrets.
- Katherine Pothier, M.S. Student, Fawn mortality in captive deer
- Claudia Ganser, Ph.D. student, Avian malaria in Arctic-breeding Shorebirds
- Felipe Hernández, Ph.D. Student, Effects of contaminants on pathogen communities of feral swine
- Mary Leigh Morris Merrill, Ph.D. student, Disease ecology of Florida cattle ranches

Undergraduate Students:

- Celine Carneiro, Mesocarnivores in an agro-ecological landscape
- Hanna Innocent, Invasion ecology of cattle egrets
- Karen Hood, *Theileria* infection in farm-raised deer
- Gabriela Gonzalez, Cattle egret ecology

Past Advisees:

Postdoctoral Researchers:

- Katherine Sayler (at UF), 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:

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, Vector ecology in the Great Plains. In a PhD program 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 Bowling Green State 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. Director of CCCI, a Paraguayan conservation NGO.

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:

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.

Undergraduates:

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.

Professional Service:

Wildlife Conservation Advisor

- Member – Conservation Genetics Specialist Group, IUCN, 2016-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 – Genetics Advisory Board for USFWS Black-footed Ferret Recovery Team, 2014-present
- 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

- 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

- 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:

- Book Editor Board, Emergent Environmental Observatories, Springer Books
- 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

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