

DANIEL J. BECKER

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POSITIONS	Assistant Professor Department of Biology, University of Oklahoma, Norman, OK	2021–present
	Intelligence Community Postdoctoral Fellow Department of Biology, Indiana University, Bloomington, IN	2018–2021
	Postdoctoral Researcher Microbiology & Immunology, Montana State University, Bozeman, MT	2017–2018
EDUCATION	Odum School of Ecology, University of Georgia, Athens, GA PhD in Ecology. <i>Linking anthropogenic resources to wildlife–pathogen dynamics: from theory to vampire bats</i> . Advised by Sonia Altizer & Daniel Streicker	2017
	Bard College, Annandale-on-Hudson, NY BA in Anthropology, Global Health, Science & Society. <i>From clinic to support group: medical expertise and Lyme disease in Dutchess County, NY</i> . Advised by Diana Brown	2010
RESEARCH INTERESTS	Zoonotic pathogens of bats and birds; mathematical models; environmental change; ecoimmunology; phylogenetic meta-analysis & comparative methods; animal movement	
CURRENT FUNDING	Exploratory Research Grant (R21), National Institutes of Health <i>Interrogating stress and viral shedding in a migratory bat model</i> (\$275,000; PIs: Becker , Banerjee)	pending
	Junior Faculty Fellowship, University of Oklahoma <i>Leveraging the Motus Wildlife Tracking System to study bat migration</i> (\$7,000; PI: Becker)	pending
	State Wildlife Grant, Oklahoma Department of Wildlife Conservation <i>Temporal assessment of bat community change and a baseline for bat health in eastern Oklahoma</i> (\$103,934; PIs: Lanier, Becker)	pending
	Ralph E. Powe Junior Faculty Enhancement Award, ORAU <i>Linking bat migration to spatial spread of zoonotic pathogens</i> (\$5,000; PI: Becker)	pending
	Organismal Response to Climate Change, National Science Foundation <i>Collaborative Research: Uncovering phenotypic flexibility in avian responses to wildfire smoke through integrated research across biological scales</i> (\$660,054; PIs: Cornelius, Clark, Tingley; Becker listed senior personnel and subaward)	pending
	Exploration Grant, National Geographic <i>Quantifying wildlife health under multiple stressors using Mexican-free-tailed bats in North America</i> (\$20,000; PIs: Simonis, Frick, Adams, Foster, Becker)	pending
	Blavatnik National Awards for Young Scientists <i>University of Oklahoma nomination for Life Sciences</i> (\$250,000; PI: Becker)	pending
	Exploratory Research Grant (R21), National Institutes of Health <i>The link between pathogen biodiversity & spillover risk</i> (\$275,000; PIs: Speer, Becker)	pending

Exploratory Research Grant (R21), National Institutes of Health pending
Coupled field and experimental interrogation of bat antiviral responses against coronaviruses (\$275,000; PIs: **Becker**, Banerjee)

Exploratory Research Grant (R21), National Institutes of Health pending
Unraveling the dynamic relationships between diet shifts, aging, immune activity, and zoonotic infections in wild vampire bats (\$275,000; PIs: Sears, **Becker**)

Research Grant, Human Science Frontiers Program pending
SELFCURE: Evolutionary and cognitive processes underlying self-medication of immune-challenged bats (\$1,200,000; PIs: **Becker**, Simon, Page)

Research Project Grant (R01), National Institutes of Health in revision
Leveraging spatiotemporal shedding and bat movement to understand virus spillover (\$2,057,373; PIs: Forbes, **Becker**, Streicker)

DISC Seed Grant, University of Oklahoma 2023–2024
Leveraging machine learning and weather radar to identify changes in bat migration and pathogen dispersal (\$10,000; PIs: **Becker**, McGovern, Bridge, Kelly, Ross)

BAA HR001122S0034, Defense Advanced Research Projects Agency 2023–2024
Prediction and monitoring of disease transmission (\$1,499,853; PIs: Wheeler, Simmons; **Becker** listed senior personnel and subaward)

Match Program for Postdoctoral Support, University of Oklahoma 2022–2023
(\$13,657; PI: **Becker**, Vicente-Santos)

Intelligence Community Postdoctoral Research Fellowship, ORISE 2022–2024
Modeling cross-species zoonotic infection dynamics in Neotropical bats (\$202,000; PIs: Simonis, **Becker**)

Scialog: Mitigating Zoonotic Threats Program, RCSA & USDA 2022–2023
Metagenomic-guided tests of zoonotic pathogen diversity in migratory wildlife (\$150,000; PIs: **Becker**, Herrera, Lakin)

Exploration Grant, National Geographic 2022–2023
Acute impacts of fire and smoke on bird behavior, physiology, and survival in western North America (\$98,550; PIs: Cornelius, Tingley, **Becker**, Krawchuck, Kelsey)

Directorate for Biological Sciences, National Science Foundation 2022–2027
BII: Predicting the global host–virus network from molecular foundations (\$12,456,537; PIs: Carlson, **Becker**, Ryan, Seifert, Wei)

Junior Faculty Fellowship, University of Oklahoma 2022–2023
Proteomics to reveal links between spring migration & virus infection in songbirds (\$6,960; PI: **Becker**)

Pilot Award, Oklahoma COBRE in Microbial Pathogenesis & Immunity 2022–2024
The role of long-distance migration on bat innate immunity and pathogenesis (\$100,000; PI: **Becker**)

Scialog: Mitigating Zoonotic Threats Program, RCSA & USDA 2022–2023
Zoonotic implications of host genetics, immunity, and virome in bats (\$200,000; PIs: Frank, **Becker**, Ladner, Lim)

Tinker Air Force Base, United States Army Corps of Engineers 2021–2024
*Monitoring population health, spatial ecology, and microbiome diversity of the Texas
horned lizard on Tinker Air Force Base* (\$97,000; PIs: Siler, Watters, **Becker**)

Exploration Grant, National Geographic 2019–2023
Vampire bat diet, movement, and rabies virus risks in the changing landscape of Belize
(\$28,510; PIs: **Becker**, Simmons, Fenton, Briggs-Gonzalez, Streicker, Parsons)

**PRIOR
FUNDING**

BII Design, National Science Foundation 2020–2022
Innovation Award, Field Museum of Natural History 2020–2022
Intelligence Community Postdoctoral Fellowship, ORISE 2018–2021
Environmental Resilience Institute, Indiana University 2019–2020
Doctoral Dissertation Improvement Grant, National Science Foundation 2016–2018
Small Grant, Royal Society of Tropical Medicine & Hygiene 2018–2020
Theodore Roosevelt Memorial Grant, AMNH 2018
Immunity Across Scales Workshop Travel Award, IDEAS RCN 2018
Exploration Fund Grant, Explorer’s Club 2017
Small Grant for Graduate Research, Odum School of Ecology 2016
Grant-in-Aid of Research, American Society of Mammalogists 2016
Ecoimmunology Exchange Award, National Science Foundation 2015
Small Grant for Graduate Research, Odum School of Ecology 2015
Exploration Fund Grant, Explorer’s Club 2015
Grant-in-Aid of Research, Sigma Xi 2015
Innovative and Interdisciplinary Grant, University of Georgia 2015
Exploration Fund Grant, Explorer’s Club 2014
Grant-in-Aid of Research, Sigma Xi 2014
ARCS Foundation Award, ARCS Foundation 2014–2017
Graduate Research Fellowship, National Science Foundation 2014–2017
Ecoimmunology Exchange Award, National Science Foundation 2013
Grant-in-Aid of Research, American Society of Mammalogists 2013
Student Research Scholarship, Bat Conservation International 2013
One Health Seed Grant, University of Georgia 2013
Student Research Grant, Animal Behavior Society 2013
Tinker Graduate Field Research Award, University of Georgia 2013
Small Grant for Graduate Research, Odum School of Ecology 2013

AWARDS

Mitigating Zoonotic Threats Fellow, Scialog 2021–2023
Research Publication Subvention Award, University of Oklahoma 2023
Nomination for Searle Scholars Program, Kinship Foundation 2021
Sidnie Manton Award, British Ecological Society 2020
Robert C. Anderson Memorial Award, University of Georgia 2018
Nomination for Director’s Award (with Raina Plowright), DARPA 2018
Best Student Presentation, SICB Division of Ecoimmunology 2017
ARCS Foundation Atlanta 25th Anniversary Award 2016
Award for Excellence in Wildlife Conservation, University of Georgia 2016
Best Basic/Theoretical Student Paper, Odum School of Ecology 2016
Best Basic/Theoretical Student Paper, Odum School of Ecology 2015
Honorable Mention Lotka Prize, Ecological Society of America 2015
Real-Brown Travel Award, Ecological Society of America 2015
Graduate School Travel Award, University of Georgia 2015
Franz Boas & Ruth Benedict Prize in Anthropology, Bard College 2010
Bard College Senior Project Award, Bard College 2010

PEER-
REVIEWED
PAPERS

[Google Scholar](#)

* equal author
contributions

1. **Becker DJ**, Banerjee A. Coupling field and laboratory studies of immunity and infection in reservoir hosts of zoonotic pathogens. In press at *Lancet Microbe*.
2. Heckley AM, **Becker DJ**. Tropical bat ectoparasitism in continuous versus fragmented forests: a gap analysis and preliminary meta-analysis. In press at *Ecology & Evolution*.
3. Cohen LE, Fagre AC, Chen B, Carlson CJ, **Becker DJ**. Sampling strategies and pre-pandemic surveillance gaps for bat coronaviruses. In press at *Nature Microbiology*.
4. **Becker DJ**, Byrd A, Smiley TM [...] Talbott KM, Atwell JW, Volokhov DV, Ketterson ED, Jahn AE, Clark KL. 2022. Novel *Rickettsia* spp. in two common overwintering North American songbirds. *Emerging Microbes & Infections* 11:2746–48.
5. **Becker DJ**, Eby P, Madden W, Peel AJ, Plowright RK. 2022. Ecological conditions experienced by bat reservoir hosts predict the intensity of Hendra virus excretion over space and time. *Ecology Letters* 26:23–36.
6. Kimmit AA, **Becker DJ**, Diller SN, Rosvall KA, Gerlarch NM, Ketterson ED. 2022. Plasticity in female timing may explain shifts in breeding phenology of a multi-brooded North American songbird. *Journal of Animal Ecology* 91:1988–98.
7. Sánchez CA, Penrose M, Kessler MK, **Becker DJ** [...] Altizer S, Plowright RK, Boardman WSJ. 2022. Land use, season, and parasitism predict metal concentrations in Australian flying foxes. *Science of the Total Environment* 841:156699.
8. Mull N, Carlson CJ, Forbes KM, **Becker DJ**. 2022. Virus isolation data improve host predictions for rodent orthohantaviruses. *Journal of Animal Ecology* 91:1290–1302.
9. **Becker DJ**, Lei GS, Janech MG, Bland AM, Fenton MB, Simmons NB, Relich RF, Neely BA. 2022. Serum proteomics identifies immune pathways and candidate biomarkers of coronavirus infection in wild vampire bats. *Frontiers in Virology* 2.
10. Koltz AM, Civitello DJ, **Becker DJ**, Deem SL, Classen AT, Barton B, Brenn-White M, Johnson ZE, Kutz S, Malishev M, Preston DL, Vannatta JT, Penczykowski RM, Ezenwa VO. 2022. Parasitic infections by helminths have sublethal effects on free-living ruminant hosts with cascading consequences for ecosystems. *PNAS* 119:e2117381119.
11. Albery GF, Carlson CJ, Cohen LE, Eskew EA, Gibb R, Ryan SJ, Sweeny AR, **Becker DJ**. 2022. Urban-adapted mammal species have more known pathogens. *Nature Ecology & Evolution* 6:794?801.
12. Griffiths ME, Broos A, Bergner LM, Meza DV, Suarez NM, Filipe ADS, Tello C, **Becker DJ**, Streicker DG. 2022. Multi-strain dynamics and phylogeographic structure of a candidate viral vector supports development of a transmissible vaccine for vampire bat rabies. *PLoS Biology* 20:e3001580.
13. **Becker DJ**^{*}, Albery GF^{*}, Sjodin AR, Poisot T, Bergner LM, Chen B, Cohen L, Fagre AC, Dallas TA, Eskew EA, Farrell MF, Guth S, Han BA, Simmons NB, Stock M, Teeling EC, Carlson CJ. 2022. Optimizing predictive models to prioritize viral discovery in zoonotic reservoirs. *Lancet Microbe*.

14. Talbott KM, **Becker DJ**, Higgins BJ, Soini HA, Novotny MV, Ketterson ED. 2022. Songbird preen oil odor reflects haemosporidian parasite load. *Animal Behavior* 188:147–155.
15. Reaser JK, Hunt B, Ruiz-Aravena M, Tabor GM, Patz JA, **Becker DJ**, Locke H, Hudson PJ, Plowright RK. 2022. Reducing land use induced–spillover risk by fostering landscape immunity: policy priorities for conservation practitioners. *Conservation Letters* 15:e12869.
16. Albery GF, Sweeny AR, **Becker DJ**, Bansal S. 2022. Fine-scale spatial patterns of wildlife disease are common and understudied. *Functional Ecology* 36:214–225.
17. Albery GA, **Becker DJ**, Brierly L, Brook CE [...] Mollentze N, Neely BA, Poisot T, Rasmussen AL, Ryan SJ, Seifert SN, Sjodin AR, Sorrell EM, Carlson CJ. 2021. The science of host–virus network. *Nature Microbiology* 6:1483–92.
18. Brandell EE, **Becker DJ**, Sampson LM, Forbes KM. 2021. Demography, education, and research foci in the growing field of disease ecology. *Ecology & Evolution* 11:17581–17592.
19. Sweeny AR, Albery GF, **Becker DJ**, Eskew EA, Carlson CJ. 2021. Synzootics. *Journal of Animal Ecology* 90:2744–54.
20. Millan J, **Becker DJ**. 2021. Patterns of exposure and infection with microparasites in Iberian wild carnivores: a review and meta-analysis. *Animals* 11:2708.
21. Gibb R, Albery GF, **Becker DJ**, Brierly L, Connor R, Dallas TA, Farrell MJ, Rasmussen AL, Ryan SJ, Sweeny AR, Carlson CJ, Poisot T. 2021. Data proliferation, reconciliation, and synthesis in viral ecology. *BioSciences* 71:1148–56.
22. Sandoval-Herrera NI, Mastromonaco GF, **Becker DJ**, Simmons NB, Welch KC. 2021. Inter- and intra-specific variation in hair cortisol levels of Neotropical bats. *Conservation Physiology* 9:coab053.
23. Cornelius-Ruhs E*, **Becker DJ***, Oakey S, Ogunsina O, Fenton MB, Simmons NB, Martin LB, Downs CJ. 2021. Body size shapes immune cell proportions in birds and terrestrial mammals but not bats. *Journal of Experimental Biology* 224:jeb.241109.
24. Ezenwa VO, Civitello DJ, Classen AT, Barton BT, **Becker DJ** [...] Koltz AM. 2021. Response to Charlier et al.: climate–disease feedbacks mediated by livestock methane emissions are plausible. *Trends in Ecology & Evolution* 36:578–9.
25. Neely BA, Janech MG, Fenton MB, Simmons, NB, Bland AM, **Becker DJ**. 2021. Surveying the vampire bat serum proteome: a resource for identifying immunological proteins and detecting pathogens. *Journal of Proteome Research* 20:2547–2559.
26. Plowright RK*, Reaser JK*, Locke H, Woodley S, Patz J, **Becker DJ**, [...] Hudson PJ, Tabor GM. 2021. Land use–induced zoonotic spillover: a call to action to safeguard environmental, animal, and human health. *Lancet Planetary Health* 5:e237–e245.
27. Reaser JK, Tabor GM, **Becker DJ**, [...] Ruiz-Aravena M, Patz JA, Hickey V, Hudson PJ, Locke H, Plowright RK. 2021. Land use–induced spillover: principles and priority actions for protected and conserved area managers. *PARKS* 27:161–178.

28. Bergner LM, **Becker DJ**, Tello C, Carrera JE, Streicker DG. 2021. Detection of *Trypanosoma cruzi* in the saliva of diverse Neotropical bats. *Zoonoses and Public Health* 68:271–276.
29. **Becker DJ**, Han BA. 2021. The macroecology and evolution of avian competence for *Borrelia burgdorferi*. *Global Ecology & Biogeography* 30:710–724.
30. Dallas TA, **Becker DJ**. 2021. Taxonomic resolution affects host–parasite model performance. *Parasitology* 148:584–590.
31. Albery GA, **Becker DJ**. 2021. Fast-lived hosts and zoonotic risk. *Trends in Parasitology* 37:117–129.
32. Bergner LM, Orton RJ, Broos A, Tello C, **Becker DJ**, Carrera JE, Patel AH, Biek R, Streicker DG. 2021. Diversification of mammalian deltaviruses by host shifting. *Proceedings of the National Academy of Sciences* 118(3).
33. **Becker DJ**, Broos A, Bergner LM, Meza DK, Simmons NB, Fenton MB, Altizer S, Streicker DG. 2021. Temporal patterns of vampire bat rabies and host connectivity in Belize. *Transboundary & Emerging Diseases* 68:870–879.
34. **Becker DJ**, Speer KA, Brown AB, Korstian JM, Volokhov DV, Droke HF, Padgett-Stewart T, Broders HG, Plowright RK, Rainwater TR, Fenton MB, Simmons NB, Chumchal MM. 2021. Disentangling the interactions among mercury, immunity, and infection in a Neotropical bat community. *Journal of Applied Ecology* 58:879–889.
35. Millán J, Di Cataldo S, Volokhov DV, **Becker DJ**. 2020. Worldwide occurrence of hemoplasmas in wildlife: insights into patterns of infection, transmission, pathology, and zoonotic potential. *Transboundary and Emerging Diseases*.
36. Griffiths M, Bergner LM, Broos A, Da Silva Filipe A, Davison A, Tello C, **Becker DJ**, Streicker DG. 2020. Epidemiology and biology of a herpesvirus in rabies-endemic vampire bat population. *Nature Communications* 11(1):5951.
37. **Becker DJ**, Singh D, Pan Q, Montoure JM, Talbott KM, Wanamaker SM, Ketterson ED. 2020. Artificial light at night amplifies seasonal relapse of haemosporidian parasites in a widespread songbird. *Proceedings B* 287:20201831.
38. Ezenwa VO, Civitello DJ, Barton BT, **Becker DJ**, Brenn-White M, Classen AT, Deem SL, Johnson Z, Kutz SJ, Malishev M, Penczykowski RM, Preston DL, Vannatta JT, Koltz AM. 2020. Infectious disease, livestock, and methane: an impending vicious cycle? *Trends in Ecology & Evolution* 35:959–962.
39. **Becker DJ**, Seifert SN, Carlson CJ. 2020. Beyond infection: integrating competence into reservoir host prediction. *Trends in Ecology & Evolution* 35:1062–1065.
40. **Becker DJ**, Ketterson ED, Hall RJ. 2020. Reactivation of latent infections with migration shapes population-level infection dynamics. *Proceedings B* 287:20201829.
41. Meza DK, Broos A, **Becker DJ**, [...] Viana M, Streicker DG. 2020. Predicting the presence and titer of rabies virus neutralizing antibodies from low-volume serum samples in low-containment facilities. *Transboundary & Emerging Diseases*.

42. **Becker DJ**, Albery GF. 2020. Expanding host specificity and pathogen sharing beyond viruses. *Molecular Ecology* 29(17):3170–2.
43. Botto G, **Becker DJ**, Lawrence RL, Plowright RK. 2020. Synergistic effects of grassland fragmentation & temperature on bovine rabies emergence. *EcoHealth* 17(2):203–16.
44. Fenton MB, Mubareka S, Tsang SM, Simmons NB, **Becker DJ**. 2020. COVID-19 and threats to bats. *FACETS* 5:349–352.
45. Crowley DE, **Becker DJ**, Washburne AD, Plowright RK. 2020. Identifying suspect bat reservoirs for emerging infections. *Vaccines* 8:228.
46. **Becker DJ**, Speer KA, Brown AB, Washburne AD, Fenton MB, Altizer S, Streicker DG, Plowright RK, Chizhokov VE, Simmons NB, Volokhov DV. 2020. Ecological and evolutionary drivers of haemoplasma infection and bacterial genotype sharing in a Neotropical bat community. *Molecular Ecology* 29:1534–1549.
47. **Becker DJ**, Albery GF, Kessler MK, Lunn T, Falvo CA, Czirjak GA, Martin LM, Plowright RK. 2020. Macroimmunology: the drivers and consequences of spatial patterns in wildlife immune defense. *Journal of Animal Ecology* 89:972–995.
48. Bergner LM, Orton RJ, Benavides JA, **Becker DJ**, Tello C, Biek R, Streicker DG. 2020. Demographic and environmental drivers of metagenomic viral diversity in vampire bats. *Molecular Ecology* 29:26–39.
49. **Becker DJ**, Talbott KM, Smiley TM, Clark KL, Sauer PE, Ketterson ED. 2019. Leukocyte profiles vary with breeding latitude and infection status in a seasonally sympatric songbird. *Animal Migration* 6:28–40.
50. **Becker DJ**^{*}, Schultz EM^{*}, Atwell JW, Ketterson ED. 2019. Urban residency & leukocyte profiles in a traditionally migratory songbird. *Animal Migration* 6:49–59.
51. Brown P, RELISH Consortium (over 1000 coauthors, including **Becker DJ**), Zhou Y. 2019. Large expert-curated database for benchmarking document similarity detection in biomedical literature search. *Database* baz085.
52. **Becker DJ**, Crowley DE, Washburne AD, Plowright RK. 2019. Temporal and spatial limitations in global surveillance for bat filoviruses and henipaviruses. *Biology Letters* 15:20190423.
53. Murray MH, Sánchez, **Becker DJ**, Byers KA, Worsely-Tonks KEL, Craft ME. 2019. City sicker: a meta-analysis of shifts in wildlife health with urbanization. *Frontiers in Ecology and the Environment* 17:575–583.
54. **Becker DJ**, Downs CJ, Martin LB. 2019. Multi-scale drivers of immunological variation and consequences for infectious disease dynamics. *Integrative & Comparative Biology* 59:1129–1137.
55. Botto G, **Becker DJ**, Plowright RK. 2019. The emergence of vampire bat rabies in Uruguay within a historical context. *Epidemiology & Infection* 147.
56. Plowright RK, **Becker DJ**, McCallum H, Manlove KR. 2019. Sampling to elucidate the dynamics of infections in reservoir hosts. *Phil Trans R Soc B* 374:20180336.

57. **Becker DJ**, Washburne AD, Faust, CL, Mordecai EA, Plowright RK. 2019. The problem of scale in the prediction and management of pathogen spillover. *Phil Trans R Soc B* 374:20190224.
58. Glennon EE, **Becker DJ**, Peel AJ, Garnier R, Suu-Ire R, Baker KS, Gibson L, Hayman DTS, Wood JLN, Cunningham AA, Plowright RK, Restif O. 2019. Modeling mechanisms of henipavirus circulation in bats. *Phil Trans R Soc B* 374:20190021.
59. Sokolow SH, Nova N, Pepin KM, Peel AJ, Manlove KR, Cross PC, **Becker DJ**, Plowright RK, Pulliam JRC, McCallum H, De Leo GA. 2019. Ecological levers to prevent and manage pathogen spillover. *Phil Trans R Soc B*. 374:20180342
60. Washburne AD, Crowley DE, **Becker DJ**, Manlove KR, Childs ML, Plowright RK. 2019. Percolation models of pathogen spillover risk. *Phil Trans R Soc B* 374:20180331.
61. **Becker DJ**, Washburne AD, Mordecai EA, Faust CL, Pulliam JRC, Lloyd-Smith JO, Plowright RK. 2019. Dynamic and integrative approaches to understanding pathogen spillover. *Phil Trans R Soc B* 374:20190014.
62. Plowright RK, **Becker DJ**, Crowley DE, Washburne AD, Huang T, Nameer PO, Gurley ES, Han BA. 2019. Prioritizing surveillance of Nipah virus in India. *PLoS Neglected Tropical Diseases* 13:e0007393.
63. Ingala MR, **Becker DJ**, Holm JB, Kristiansen K, Simmons NB. 2019. Habitat fragmentation is associated with dietary shifts and microbiota variability in common vampire bats. *Ecology & Evolution* 0:10.1002/ece3.5228.
64. Albery GF, **Becker DJ**, Kenyon F, Nussey DH, Pemberton JM. 2019. The fine-scale landscape of immunity and parasitism in a wild ungulate population. *Integrative & Comparative Biology* 0:10.1093/icb/icz016.
65. **Becker DJ**, Nachtmann C, Argibay HD, Botto G, Escalera-Zamudio M, Carrera JE, Tello C, Winiarski E, Greenwood AD, Mndez-Ojeda ML, Loza-Rubio E, Lavergne A, de Thoisy B, Czirjak GA, Plowright RK, Altizer S, Streicker DG. 2019. Leukocyte profiles reflect geographic range limits in a widespread Neotropical bat. *Integrative & Comparative Biology* 59:1176–1189.
66. Washburne AD, Silverman JD, Morton JT, **Becker DJ**, Crowley DE, Mukherjee S, David LA, Plowright RK. 2019. Phylofactorization: a graph-partitioning algorithm to identify phylogenetic scales of ecological data. *Ecological Monographs* 0:e01353.
67. Bergner LM, Orton RJ, da Silva Filipe A, Shaw AE, **Becker DJ**, Tello C, Biek R, Streicker DG. 2018. Using non-invasive metagenomics to characterize viral communities from wildlife. *Molecular Ecology Resources* 19:128–143.
68. **Becker DJ**, Czirjak GA, Rynda-Apple A, Plowright RK. 2018. Handling stress and sample storage are associated with weaker complement-mediated bactericidal ability in birds but not bats. *Physiological and Biochemical Zoology* 92:37–48.
69. **Becker DJ**, Teitelbaum CT, Murray MH, Curry SE, Welch CN, Ellison T, Adams HC, Rozier RS, Lipp EK, Hernandez SH, Altizer S, Hall R.J. 2018. Assessing the contributions of intraspecific and environmental sources of infection in urban wildlife: *Salmonella* & white ibis as a case study. *J Royal Society Interface* 15:20180654.

70. Washburne AD, Crowley DE, **Becker DJ**, Olival KJ, Taylor M, Munster VJ, Plowright RK. 2018. Taxonomic patterns in the zoonotic potential of mammalian viruses. *PeerJ* 6:e5979.
71. Sánchez CA*, **Becker DJ***, Barriga P, Brown LM, Majewska AA, Teitelbaum CT, Hall RJ, Altizer S. 2018. On the relationship between body condition & parasite infection in wildlife: a review and meta-analysis. *Ecology Letters* 21:1869–1884.
72. **Becker DJ**, Snedden C, Altizer S, Hall RJ. 2018. Host dispersal responses to resource supplementation determine pathogen spread in wildlife metapopulations. *American Naturalist* 192:503–517.
73. **Becker DJ**, Bergner LM, Bentz AB, Orton RJ, Altizer S, Streicker DG. 2018. Genetic diversity, infection prevalence, and possible transmission routes of *Bartonella* spp. in vampire bats. *PLoS Neglected Tropical Diseases* 12:e0006786.
74. Kessler MK, **Becker DJ**, Peel AJ, Justice NV, Lunn T, Crowley DE, Jones DN, Eby P, Sánchez CA, Plowright RK. 2018. Changing resource landscapes and spillover of henipaviruses. *Annals of the New York Academy of Sciences* 1429:78–99.
75. **Becker DJ**, Hall RJ, Forbes KM, Plowright RK, Altizer S. 2018. Anthropogenic resource subsidies and host–parasite dynamics in wildlife. *Phil Trans R Soc B* 373:20170086.
76. **Becker DJ**, Czirjak GA, Volokhov DV, Bentz AB, Carrera JE, Camus MS, Navara KJ, Chizhikov VE, Fenton MB, Simmons NB, Recuenco SE, Gilbert AT, Altizer S, Streicker DG. 2018. Livestock abundance predicts vampire bat demography, immune profiles and bacterial infection risk. *Phil Trans R Soc B* 373:20170089.
77. Altizer S, **Becker DJ**, Epstein JH, Forbes KM, Gillespie TR, Hall RJ, Hawley DM, Hernandez SM, Martin LB, Plowright RK, Satterfield DA, Streicker DG. 2018. Food for contagion: synthesis and future directions for studying host–parasite responses to resource shifts in anthropogenic environments. *Phil Trans R Soc B* 373:20170102.
78. Martin G, **Becker DJ**, Plowright RK. 2018. Environmental persistence of influenza H5N1 is driven by temperature and salinity: insights from a Bayesian meta-analysis. *Frontiers in Ecology & Evolution*. 6:131
79. **Becker DJ**, Streicker DG, Altizer S. 2018. Using host species traits to understand the consequences of resource provisioning for host–parasite interactions. *Journal of Animal Ecology* 87:511–525.
80. **Becker DJ**, Chunchal MM, Broders HG, Korstian JM, Clare EL, Rainwater TR, Platt SG, Simmons NB, Fenton MB. 2018. Mercury bioaccumulation in bats reflects dietary connectivity to aquatic food webs. *Environmental Pollution* 233:1076–1085.
81. Pusch EA, Bentz AB, **Becker DJ**, Navara KJ. 2017. Behavioral phenotype predicts physiological responses to chronic stress in proactive and reactive birds. *General and Comparative Endocrinology* 255:71–77.
82. Volokhov DV*, **Becker DJ***, Bergner LM, Camus MS, Orton RJ, Chizhikov VE, Altizer SM, Streicker DG. 2017. Novel hemotropic mycoplasmas are widespread and genetically diverse in vampire bats. *Epidemiology & Infection* 145:3154–3167.

83. **Becker DJ**, Chumchal MM, Bentz AB, Platt SG, Czirjak GA, Rainwater TR, Altizer S, Streicker DG. 2016. Predictors and immunological correlates of sublethal mercury exposure in vampire bats. *Royal Society Open Science* 4:170073.
84. Murray MH, **Becker DJ**, Hall RJ, Hernandez SM. 2016. Wildlife health and supplemental feeding: A review and management recommendations. *Biological Conservation* 204:163–174.
85. Bentz AB, **Becker DJ**, Navara KJ. 2016. Evolutionary implications of interspecific variation in a maternal effect: a meta-analysis of yolk testosterone response to competition. *Royal Society Open Science* 3:160499.
86. **Becker DJ**, Hall RJ. 2015. Heterogeneity in patch quality buffers metapopulations from pathogen impacts. *Theoretical Ecology* 9:197–205.
87. **Becker DJ**, Oloya J, Ezeamama AE. 2015. Household socioeconomic and demographic correlates of *Cryptosporidium* seropositivity in the United States. *PLoS Neglected Tropical Diseases* 9:e0004080.
88. **Becker DJ**, Streicker DG, Altizer S. 2014. Linking anthropogenic resources to wildlife–pathogen dynamics: a review & meta-analysis. *Ecology Letters* 18:483–495.
89. **Becker DJ**, Hall RJ. 2014. Too much of a good thing: resource provisioning alters infectious disease dynamics in wildlife. *Biology Letters* 10:20140309.
90. Botto G, **Becker DJ**, Jones DN, Delfraro A, Taylor M, Plowright RK. Herpesvirus diversity in the common vampire bat across its geographic distribution: a prospect for tracking contacts in bats. In revision.
91. Poisot T, Ouellet MA, Mollentze N, Farrell MF, **Becker DJ**, Albery GF, Gibb RF, Carlson CJ. Imputing the mammalian virome with linear filtering and singular value decomposition. In revision.
92. Byrd A, Mullins C, **Becker DJ**, Fudickar AM. Experimentally prolonged day length increases nestling growth rate and food consumption in a New World sparrow. In revision.
93. Silva NIO, Albery GF, Arruda MS, Oliveira GG, Costa TA, de Mello EM, Dias GM, Reis EV, Silvia SA, Silva MC, Almeida MG, **Becker DJ**, Carlson CJ, Vasilakis N, Hanley KA, Drumond BP. Ecological drivers of sustained enzootic yellow fever virus transmission in Brazil, 2017-2021. In revision.
94. Scheben A, Mendivil Ramos O, Kramer M, Goodwin S, Oppenheim S, **Becker DJ**, Schatz MC, Simmons NB, Siepel A, McCombie WR. Long-read sequencing reveals rapid evolution of immunity- and cancer-related genes in bats. In review.
95. **Becker DJ**, Sandoval-Herrera NI, Simonis MC, Sánchez CA. Bioaccumulation and foraging behavior. *A Natural History of Bat Foraging*. In review.
96. Nikc K, Albery GF, **Becker DJ**, Eskew EA, Fagre AC, Ryan SJ, Carlson CJ. Viral diversity and zoonotic risk in endangered species. In review.
97. Forero-Muñoz NR, Muylaert RL, Seifert SN, Albery GF, **Becker DJ**, Carlson CJ, Poisot T. The coevolutionary mosaic of bat betacoronavirus emergence risk. In review.

**PAPERS IN
REVIEW OR
REVISION**

**PAPERS IN
ADVANCED
STAGES**

98. **Becker DJ**, Merrifield JM, Vágási CI, Czirják GÁ, Pap PL. Spatial variation in the cellular immune response of house sparrows in their native range. In review.
99. Byrd A, Talbott KM, Smiley TM, Verrett TB, Gross M, Ketterson ED, **Becker DJ**. Intrinsic and extrinsic drivers of spring migration timing in dark-eyed juncos.
100. Lagergren J, Ruiz-Aravena M, **Becker DJ**, Madden W, Ruytenberg L, Hoegh A, Han BA, Peel AJ, Eby P, Jacobson D, Plowright RK. Environmental- and population-level signals predict periods of nutritional stress for fruit bats.
101. Yin S, Li N, Xu W, **Becker DJ**, de Boer WF, Xu C, Mundkur T, Fountain-Jones NM, Li C, Han GZ, Wu Q, Huang ZYX. Functional traits explain waterbird host status, subtype richness, and community-level infection risk for avian influenza.
102. **Becker DJ**, Dyer KE, Pladas SA, Lock LR, Sukhadia AA, Adams AM, Frick WF, O'Mara MT, Volokhov DV. Geographically widespread and novel hemotropic mycoplasmas and *Bartonella* spp. in a partially migratory bat, *Tadarida brasiliensis*.
103. DeAnglis IK, Andrews BR, Lock LR, Dyer KE, Volokhov DV, Fenton MB, Simmons NB, Downs CJ, **Becker DJ**. Bat cellular immunity varies by year and dietary guild in an increasingly fragmented landscape.
104. **Becker DJ**, Dyer KE, Bisson IA, Holland RA. Migratory strategy predicts viral composition and zoonotic hosting in the largest superfamily of bats.
105. Lunn T, Streicker DG, **Becker DJ**, Forbes KM. Interventions to prevent and manage bat-associated pathogens: effectiveness and current research.
106. Carlson CJ, Albery GA, **Becker DJ**, Gibb R, Nikc K, Ryan SJ, Wille M. Causal inference and the macroecology of viral diversity.
107. Jahn AE, Koller K, Martin LB, Verrett TB, Ketterson ED, **Becker DJ**. Seasonal exposure of American robins to West Nile virus in a midwestern suburban area.
108. Heckley AM, Lock LR, **Becker DJ**. The effects of forest fragmentation on Neotropical bat viruses: a spatial synthesis study.
109. Tseng KK, **Becker DJ**, Koehler H, Gibb R, Carlson CJ, Fernandez P, Seifert SN. Predicting reservoirs of orthopoxviruses.
110. Speer KA, Schaer J, Kroft K, Brown A, Lock LR, Dyer KE, Verrett TB, Hedgpeth G, Perkins S, Simmons NB, Fenton MB, **Becker DJ**. Global occurrences of bat malaria (*Polychromophilus*) reveal vector-pathogen specificity and rarity in the Neotropics.
111. Vicente-Santos A, Lock LR, Dyer KE, Allira M, Dunsmore A, Volokhov DV, Herrera C, Lei GS, Relich RF, Janech MG, Bland AM, Fenton MB, Simmons NB, Neely BA, **Becker DJ**. Serum proteomics reveals a tolerant immune phenotype across multiple parasite taxa in wild vampire bats.
112. Simonis MC, Dyer KE, Batista JMN, Lock LR, Power ML, Fenton MB, Simmons NB, **Becker DJ**. Micronuclei intensity informs agricultural intensification and physiological stress in bats.

INVITED TALKS & SEMINARS	International Forum on Ecology and Evolution of Avian Influenza	2023	
	Center for Biologics Evaluation and Research, US FDA	2023	
	Department of Ecology & Evolution, University of Chicago	2023	
	Department of Biological Science, University of Arkansas	2022	
	Pathogen and Microbiome Institute, Northern Arizona University	2022	
	19th International Bat Research Conference, Austin, TX	2022	
	3rd International Symposium on Infectious Diseases of Bats, Fort Collins, CO	2022	
	Department of Biological Sciences, University of Memphis	2022	
	Seminar Series on Vector-Borne & Zoonotic Diseases, CREATE-NEO	2022	
	Multiscale Modeling and Viral Pandemics Working Group, IMAG/MSM	2021	
	V Congreso Latinoamericano y V Congreso Peruano de Mastozoología	2021	
	Department of Poultry Science, Mississippi State University	2021	
	Department of Biology, New Mexico State University	2021	
	Department of Biological Sciences, Wright State University	2021	
	Department of Biology, Appalachian State University	2020	
	Simposio Peruano de Murciálagos, <i>virtual</i>	2020	
	Department of Ecology & Evolutionary Biology, University of Arizona	2020	
	Department of Biology, University of Oklahoma	2020	
	Department of Biology, Indiana State University	2019	
	Department of Veterinary Preventive Medicine, The Ohio State University	2019	
	Department of Epidemiology, Indiana University	2019	
	Society for Integrative and Comparative Biology, Tampa, FL	2019	
	Ecological Society of America, New Orleans, LA	2018	
	International Urban Wildlife Conference, San Diego, CA	2017	
	Georgia Bat Working Group Meeting, Athens, GA	2016	
	International Association of Landscape Ecology, Portland, OR	2015	
	CONFERENCE TALKS & POSTERS	Society for Integrative and Comparative Biology, Austin, TX	2023
		Intelligence Community Academic Research Symposium, <i>virtual</i>	2020
Society for Integrative and Comparative Biology, Austin, TX		2020	
Intelligence Community Academic Research Symposium, Washington DC		2019	
Ecological Society of America, Louisville, KY		2019	
Ecology and Evolution of Infectious Diseases, Princeton, NJ		2019	
Ecological Society of America, New Orleans, LA		2018	
Ecology and Evolution of Infectious Diseases, Glasgow, UK		2018	
Society for Integrative and Comparative Biology, San Francisco, CA		2018	
Ecological Society of America, Portland, OR		2017	
Society for Integrative and Comparative Biology, New Orleans, LA		2017	
Ecological Society of America, Fort Lauderdale, FL		2016	
Ecology and Evolution of Infectious Diseases, Ithaca, NY		2016	
Society for Integrative and Comparative Biology, Portland, OR		2016	
Ecological Society of America, Baltimore, MD		2015	
Ecology and Evolution of Infectious Diseases, Athens, GA		2015	
Society for Integrative and Comparative Biology, West Palm Beach, FL		2015	
Ecology and Evolution of Infectious Diseases, State College, PA		2013	
MENTEE TRAINING		<i>Postdoctoral researchers</i>	
		1. Molly Simonis, Intelligence Community Postdoctoral Fellowship	2022–present
	2. Amanda Vicente-Santos, University of Oklahoma	2022–present	
	<i>PhD students</i>		
	1. Taylor Verrett, University of Oklahoma	2021–present	
	2. Lauren Lock, University of Oklahoma	2021–present	

MS students

1. Kristin Dyer, University of Oklahoma 2023–present
2. Meagan Allira, University of Oklahoma 2022–present

PhD project mentorship

1. Alexis Heckley, McGill University 2021–present
2. Briana Betke, University of Texas Austin 2021–present

MSc interns

1. Juliana Nunes Batista, University of São Paulo 2022
2. Alexis Heckley, McGill University 2021

Technicians

1. Bret Demory, University of Oklahoma 2022–present
2. Kristin Dyer, University of Oklahoma 2021–2023
3. Jorge Carrera, Universidad Nacional de Piura 2013–2016
4. Cecilia Nachtman, University of Georgia 2016
5. Katherine Ineson, Boston University 2014

Graduate committee

1. Sydney Horan (PhD), University of Connecticut 2023–present
2. Eric Bump (PhD), University of Oklahoma 2023–present
3. Rionach McCarthy (PhD), University of Oklahoma 2023–present
4. Isabella DeAnglis (PhD), University of Arkansas 2022–present
5. Abigail Triemstra (MS), University of Oklahoma 2022–present
6. Sarah Johnson, (PhD) University of Oklahoma 2022–present
7. Madelyn Kirsch (MS), University of Oklahoma 2022–present
8. Ulises Rosas-Puchuri (PhD), University of Oklahoma 2022–present
9. Alexandria Fulton (MS), University of Oklahoma 2022–present
10. Sierra Smith (PhD), University of Oklahoma 2022–present
11. Miranda Theriot (PhD), University of Oklahoma 2021–present
12. Samuel Eliades (PhD), University of Oklahoma 2022

Undergraduate honors theses

1. Aaron Santos, University of Oklahoma 2022–2023
2. Phoenix Brown, University of Oklahoma 2022
3. Qiuyn Pan, Indiana University 2019–2020
4. Andre Jove, University of Georgia 2016

Undergraduate credit hours

1. Drake Johnston, University of Oklahoma 2023
2. Anushka Sukhadia, University of Oklahoma 2023
3. Gracie Hedgpeth, University of Oklahoma 2022–2023
4. Jessie Merrifield, University of Oklahoma 2022
5. Allen Pau, University of Oklahoma 2021–2022
6. Matthias Benko, Indiana University 2019–2020
7. Ruth Schade, University of Georgia 2015

Undergraduate volunteers

1. Anushka Sukhadia, University of Oklahoma 2022–2023
2. Jessie Merrifield, University of Oklahoma 2021
3. Maria Munoz, University of Oklahoma 2021–2022
4. Ticha Padgett, Montana State University 2018

Undergraduate REU

1. Celine Snedden, UC Berkeley 2016

**COURSES
DESIGNED**

Simonis MC & **Becker DJ**. BIOL 5990 Introduction to network analysis. Department of Biology, University of Oklahoma, Norman, OK, 2023.

Becker DJ. BIOL 5990 Data analysis in ecology and evolutionary biology. Department of Biology, University of Oklahoma, Norman, OK, 2022.

Becker DJ. BIOL 5790 Ecological modeling. Department of Biology, University of Oklahoma, Norman, OK, 2022.

Becker DJ. BIOL 4790/5790 Ecology and evolution of infectious disease. Department of Biology, University of Oklahoma, Norman, OK, 2022, 2023.

**GUEST
LECTURES**

Becker DJ. Introduction to GLM/GLMMs. BIOL 4913 Quantitative Biology. University of Oklahoma, Norman, OK, 2021, 2022.

Becker DJ. Ecological drivers of zoonotic pandemics. P451 Human Physiology. Indiana University, Bloomington, IN, 2020.

Becker DJ. Environmental change, loss of migration, and infectious disease. FNR 2400 Wildlife in America. Purdue University, West Lafayette, IN, 2019.

Becker DJ. Meta-analysis in ecology, evolution, and behavior. ABEH 501 Techniques in Reproductive Diversity. Indiana University, Bloomington, IN, 2019.

Becker DJ. Bat rabies in North America. FNR 2400 Wildlife in America. Purdue University, West Lafayette, IN, 2018.

Becker DJ. Introduction to linear mixed models, AIC, and implementation in R. Department of Biology, Appalachian State University, Boone, NC, 2017.

Becker DJ. Vampire bat immunity and infection in a changing world. MB 560 Infectious Disease Ecology, Montana State University, Bozeman, MT, 2017.

Becker DJ. Conducting hierarchical meta-analysis in ecology and evolutionary biology. Odum School of Ecology, University of Georgia, Athens, GA, 2016.

Becker DJ. Supplemental feeding and wildlife health. ECOL 3480 Urban Landscape Ecology, University of Georgia, Athens, GA, 2016.

Becker DJ. The analysis of infectious disease data using R. Instituto Nacional de Salud, Lima, Peru, 2015.

Becker DJ. Resources, nutrition, stress, and immunity. ECOL 4150 Population Biology of Infectious Diseases, University of Georgia, Athens, GA, 2015.

SCIENTIFIC LEADERSHIP	Program Officer, Division of Ecoimmunology & Disease Ecology, SICB	2023–2025
	<i>Phil Trans R Soc B</i> Theme Issue Organizer (issue link)	2017–2019
	Symposium Organizer (SYMP 2), SICB 2019 Annual Meeting	2017–2019
	Student Liaison, Disease Ecology Section, ESA	2016–2018
	Representative, Division of Ecoimmunology & Disease Ecology, SICB	2015–2018
	Workshop Organizer (DARPA spillover), Montana State University	2017–2018
	Advisory Board, Center for the Ecology of Infectious Disease, UGA	2016–2017
	<i>Phil Trans R Soc B</i> Theme Issue Organizer (issue link)	2016–2017
	Symposium Organizer (SYMP 8), ESA 2016 Annual Meeting	2015–2016
ACADEMIC SERVICE	Biology Seminar Committee, University of Oklahoma	2022–2023
	Webmaster, Women in Science University of Georgia	2015–2017
	Grant Database Coordinator, Odum School of Ecology	2015–2016
	Treasurer, Odum School of Ecology	2013–2014, 2015–2016
EDITORIAL POSITIONS	Academic Editor, <i>Integrative & Comparative Biology</i>	2022–present
	Academic Editor, <i>Frontiers in Ecology & Evolution</i>	2022–present
	Guest Editor, <i>Ecological Applications</i>	2021–present
	Academic Editor, <i>Journal of Animal Ecology</i>	2020–present
	Academic Editor, <i>PLoS ONE</i>	2018–present
	Guest Editor, <i>Philosophical Transactions of the Royal Society B</i>	2017–2019
	Student Editorial Assistant, <i>EcoHealth</i>	2012–2017
	Editorial Intern, <i>The Georgia Review</i>	2014
	Editorial Administrator, <i>Annals of the New York Academy of Sciences</i>	2010–2012
GRANT REVIEWER	National Science Foundation	
	The Wellcome Trust	
	Bat Conservation International	
	Alberta Conservation Association	
	French National Research Agency	
	Natural Environment Research Council	
	Indiana University Grand Challenges	
	Animal Behavior Society	
SCIENTIFIC OUTREACH	Invited Panelist, Moore One Health Dialogues, Wildlife Conservation Society	2022
	Guest Presenter, Oconee Rivers Audubon Society, Athens, GA	2017
	Guest Presenter, Caring for the Winged Ones Summer Camp, Helen, GA	2016
	British Ornithologists' Union Biotweeps Participant	2016
	Volunteer Judge, Georgia Science and Engineering Fair, Athens, GA	2015, 2016
AD HOC REVIEWER	<i>Acta Chiropterologica</i>	
	<i>Acta Tropica</i>	
	<i>Applied and Environmental Microbiology</i>	
	<i>Archives of Environmental Contamination and Toxicology</i>	
	<i>Behavioral Ecology</i>	
	<i>Biology Letters</i>	
	<i>Biology Open</i>	
	<i>Biological Reviews</i>	
	<i>Biomarkers</i>	
	<i>BMC Ecology</i>	
	<i>BMC Veterinary Research</i>	
	<i>Canadian Journal of Zoology</i>	
	<i>Comparative Immunology, Microbiology and Infectious Diseases</i>	
	Publons page	

Conservation Letters
EcoHealth
Ecography
Ecology
Ecology & Evolution
Ecology Letters
Ecosphere
Emerging Microbes & Infections
Environmental Earth Sciences
Environmental Pollution
Epidemiology & Infection
Evolution
Evolution Letters
Evolutionary Applications
FEBS Open Bio
Frontiers in Ecology and the Environment
Frontiers in Immunology
Frontiers in Public Health
Functional Ecology
Global Change Biology
Global Ecology and Biogeography
Global Ecology and Conservation
Global Health Research and Policy
Heredity
Infection, Genetics & Evolution
Integrative Zoology
Integrative & Comparative Biology
Interdisciplinary Sciences: Computational Life Sciences
International Journal for Parasitology
Journal of Animal Ecology
Journal of Applied Ecology
Journal of Avian Biology
Journal of Experimental Biology
Journal of Experimental Zoology Part A
Journal of Mammalogy
Journal of Ornithology
Journal of Urban Ecology
Journal of Vector Ecology
Journal of Wildlife Diseases
Mammal Review
Mammalian Biology
Medicinal Research Reviews
Microbiology Open
Molecular Ecology
Nature Communications
Nature Ecology & Evolution
Oecologia
Oikos
Parasitology
Parasitology International
PeerJ
Philosophical Transactions of the Royal Society B
Physiological and Biochemical Zoology
PLoS Biology

PLoS Computational Biology
PLoS Neglected Tropical Diseases
PLoS ONE
PLoS Pathogens
Proceedings of the Royal Society B
Royal Society Open Science
Science of the Total Environment
Scientific Reports
The American Naturalist
Ticks and Tick-borne Diseases
Transboundary and Emerging Diseases
Urban Ecosystems
Veterinary Medicine and Science
Viruses
Wildlife Biology
Zoology
Zoological Science
Zoonoses & Public Health

SOCIETY Society for Integrative & Comparative Biology
AFFILIATIONS Ecological Society of America
North American Society for Bat Research

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