

Daniel G. Streicker

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EDUCATION

- 2006 – 2011 **University of Georgia, Odum School of Ecology**, Ecology, PhD *Viral host shifts: ecological dynamics, cross-species transmission and host adaptation in bat rabies*. Advised by Sonia Altizer and Pejman Rohani.
- 2000 – 2004 **University of Virginia**, Psychology (B.A.) and Biology (minor) *Host community heterogeneity and parasite risk in small mammals*. Advised by Amy Pedersen and Janis Antonovics.

APPOINTMENTS & EXPERIENCE

- 2021 – pres. **Reader**, University of Glasgow
- 2019 – pres. **Wellcome Trust Senior Research Fellow**, University of Glasgow
- 2014 – 2020 **Adjunct Graduate Faculty**, Odum School of Ecology, University of Georgia
- 2013 – 2018 **Wellcome Trust/Royal Society Sir Henry Dale Research Fellow**, University of Glasgow
- 2012 – 2013 **Postdoctoral Research Associate**, Odum School of Ecology, University of Georgia
- 2004 – 2006 **Emerging Infectious Diseases Training Fellow**, Rabies Laboratory, Centers for Disease Control and Prevention
- 2004 **Intern**, Consortium for Conservation Medicine (now EcoHealth Alliance).
- 2002 – 2004 **Research Assistant**, Department of Biology, University of Virginia.
- 2003 **Research Experiences for Undergraduates (REU) Program**, at Mountain Lake Biological Station, University of Virginia.

GRANTS & FELLOWSHIPS

- 2020 – 2025 **Wellcome Trust Senior Research Fellowship**. *Data-driven interventions to prevent bat virus emergence* (£1,924,975, PI: Streicker; 217221/Z/19/Z)
- 2020 – 2023 **NSF-BBRSC Ecology and Evolution of Infectious Diseases Grant**. *US-UK collaboration: Integrating ecology, epidemiology, and human interests for strategic management of zoonoses in complex wildlife reservoirs* (UK: £540,828, PI: Streicker; US: \$1,695,140, PI: Osorio, BB/V003798/1; DEB 2011069)
- 2018 – 2019 **Wellcome Institutional Strategic Support Fund (ISSF) ECR Catalyst Grant**. *Investigating a novel deltavirus in vampire bats* (£17,357, PI: Streicker, project designed by Laura Bergner)
- 2018 – 2021 **Human Frontier Science Program**. *Probing persistence paradigms: synthetically, immunologically and ecologically* (\$1,050,000; RGP0013/2018, PI: Felix Drexler)
- 2018 – 2021 **NERC Standard Grant**. *The impact of resource availability on parasite transmission: insights from a natural multi-parasite community*. (£631,347; NE/R011397/1, PI: Amy Pedersen).
- 2014 – 2019 **Wellcome Trust/Royal Society Sir Henry Dale Fellowship**. *Managing viral emergence at the interface of bats and livestock* (£976,385, Grant 102507/Z/13/Z, PI: D. Streicker)
- 2017 – 2018 **Royal Society Challenge Grant**. *Towards oral vaccination of vampire bats for rabies control in Latin America* (£96,253, CH160097, PI: Streicker)
- 2016 – 2019 **Leverhulme Trust Research Grant**. *From observation to intervention: overcoming weak data with new approaches to complex biological problems* (£181,909, Grant RPG-2015-259, PIs: Dan Haydon & Mafalda Viana)
- 2016 – 2017 **CONCYTEC Basic Research Grant**. *The role of the vampire bat in the transmission of bacteria resistant to antibiotics used in humans and livestock* (£80,000, Grant 003-2016-FONDECYT, PIs: Carlos Shiva and Nestor Falcon)
- 2016 – 2018 **National Science Foundation Doctoral Dissertation Improvement Grant**. *Dissertation Research: Consequences of resource heterogeneity for immune defense, connectivity, and rabies dynamics in vampire bats* (\$19,499, ~£14,743; DEB-1601052, PI: Dan Becker).

- 2013 **National Science Foundation Postdoctoral Fellowship in Biology** (2 years, \$138,000, declined for *Sir Henry Dale Fellowship*)
- 2010 – 2014 **National Science Foundation Research Grant.** *Demographic and behavioral responses to resource shifts and the transmission of rabies in vampire bats* (\$580,000; NSF DEB 1020966; PIs: S. Altizer and P. Rohani; Project designed by D. Streicker).
- 2009 – 2010 **CDC/UGA Research Collaboration in Infectious Disease** (\$92,000, PIs: S. Altizer and C. Rupprecht; Project designed by D. Streicker)
- 2010 Odum School of Ecology Small Grant for Graduate Research (\$900)
- 2007 – 2010 National Science Foundation Graduate Research Fellowship (\$122,500)
- 2008 National Geographic Young Explorers Grant (\$5,000)
- 2007 American Philosophical Society, Lewis and Clark Explorers Grant (\$4,900)
- 2007 – 2008 Latin American and Caribbean Studies Summer Research Travel Award (\$2,100)
- 2004 – 2006 CDC/APHL Emerging Infectious Diseases Training Fellowship (\$49,000)

AWARDS

- 2020 Philip Leverhulme Prize (£100,000)
- 2015 National Geographic Emerging Explorer (\$10,000)
- 2014 Wellcome-Beit Prize (£25,000, ~\$41,767)
- 2014 Royal Society of Edinburgh International Exchange Programme (£500)
- 2013 *Science* and SciLifeLab Prize for Young Scientists – Grand Prize (\$25,000)
- 2013 Robert C. Anderson Memorial Award for Best Dissertation in the Life Sciences at the University of Georgia (\$1000)
- 2013 University of Georgia ‘Darwin Days,’ Best Postdoctoral Poster
- 2011 Odum School of Ecology Best Student Paper Award (\$250)
- 2011 University of Georgia Dissertation Completion Award (\$13,268)
- 2009 University of Georgia Graduate Student Travel Award (\$1,200)
- 2008 AAAS/ *Science* Program for Excellence in Science
- 2007, 2008 Ecology and Evolution of Infectious Diseases Conference Travel Award (\$500)
- 2007 1st place PhD student presentation, Ecology Graduate Student Symposium (\$250)
- 2005 Evolution of Infectious Diseases Symposium Travel Award (\$500)
- 2004 Phi Beta Kappa Honor Society
- 2003 NSF Research Experiences for Undergraduates Internship
- 2003 Harrison Undergraduate Research Award

PUBLICATIONS

- Mollentze, N., Babayan, S., & **Streicker, D.G.** (2021) Identifying and prioritizing potential human-infecting viruses from their genome sequences. **PLoS Biology** 19(9): e3001390. <https://doi.org/10.1371/journal.pbio.3001390>
- Shaw, A. E., Rihn, S. J., Mollentze, N., Wickenhagen, A., Stewart, D. G., Orton, R. J., Kuchi, S., Bakshi, S., Collados, M. R., Turnbull, M. L., Busby, J., Gu, Q., Smollett, K., Bamford, C. G. G., Sugrue, E., Johnson, P. C. D., Silva, A. F. Da, Castello, A., **Streicker, D. G.**, Robertson, D.L., Palmarini, M. & Wilson, S. J. (2021). The antiviral state has shaped the CpG composition of the vertebrate interferome to avoid self-targeting. **PLOS Biology** <https://doi.org/10.1371/journal.pbio.3001352>
- Bergner, L.M., Orton, R.J., Broos, A., Tello, C., Becker, D.J., Carrera, J.E., Patel, A.H., Biek, R. & **Streicker, D.G.** (2021) Diversification of mammalian deltaviruses by host shifting. **Proceedings of the National Academy of Sciences of the USA** <https://doi.org/10.1073/pnas.2019907118>
- Fuentes-Castillo, D., Shiva, C., Lincopan, N., Sano, E., Fontana, H., **Streicker, D. G.**, Mahamat, O. O., Falcon, N., Godreuil, S., & Benavides, J. A. (2021) Global high-risk clone of ESBL-producing *Klebsiella pneumoniae* ST307 emerging in livestock of Peru. **International Journal of Antimicrobial Agents** <https://doi.org/10.1016/j.ijantimicag.2021.106389>
- Hosie, M.J., Epifano, I., Herder, V., Orton, R.J., Stevenson, A., Johnson, N., MacDonald, M., Dunbar, D., McDonald, M., Howie, F., Tennant, B., Herrity, D., Da Silva Filipe, A., **Streicker, D.G.**, Willett, B.J., Murcia, P.R., Jarrett, R.F, Robertson, D.L., Weir, W. and the COVID-19 Genomics UK (COG-UK) consortium. (2021) Detection of SARS-CoV-2 in respiratory samples from cats in the UK associated with human-to-cat transmission **Veterinary Record** <http://doi.org/10.1002/vetr.247>

6. Bergner, L.M., Mollentze, N., Orton, R.J., Tello, C., Broos, A., Biek, R. & **Streicker, D.G.** (2021) Characterizing and evaluating the zoonotic potential of novel viruses discovered in vampire bats. **Viruses** <https://doi.org/10.3390/v13020252>
7. Benavides, J.A., **Streicker, D.G.**, Gonzalez, M.S., Rojas-Paniagua, E., & Shiva, S. (2021) Knowledge and use of antibiotics among low-income small-scale farmers of Peru. **Preventive Veterinary Medicine** <https://doi.org/10.1016/j.prevetmed.2021.105287>
8. Gonçalves, F., Galetti, M., & **Streicker, D.G.** (2021) Management of vampire bats and rabies: a precaution for rewilding projects in the Neotropics. **Perspectives in Ecology and Conservation** doi: [10.32942/osf.io/53hda](https://doi.org/10.32942/osf.io/53hda)
9. Bergner, L.M., Becker, D.J., Tello, C., Carrera, J.E. & **Streicker, D.G.** (2021). Detection of *Trypanosoma cruzi* in the saliva of diverse Neotropical bats. **Zoonoses and Public Health** <https://doi.org/10.1111/zph.12808>
10. Griffiths, M., Bergner, L.M., Broos, A., da Silva Filipe, A., Davison, A., Tello, C., Becker, D.J. & **Streicker, D.G.** (2020) Epidemiology and biology of a herpesvirus in rabies endemic vampire bat populations. **Nature Communications** doi: [10.1038/s41467-020-19832-4](https://doi.org/10.1038/s41467-020-19832-4)
11. Worsley-Tonks, K., Escobar, L., Biek, R., Castaneda, M., Craft, M., **Streicker, D.G.**, White, L., & Fountain-Jones, N. (2020) Using host traits to predict reservoir host species of rabies virus. **PLoS Neglected Tropical Diseases** <https://doi.org/10.1371/journal.pntd.0008940>
12. Mollentze, N., **Streicker, D.G.**, Murcia, P.R., Hampson, K., Biek, R. (2020) Virulence mismatches in index hosts shape the outcomes of cross-species transmission. **Proceedings of the National Academy of Sciences** <https://doi.org/10.1073/pnas.2006778117>
13. **Streicker, D.G.** and Gilbert, A.T. (2020) Perspective: Contextualizing bats as viral reservoirs. **Science** <https://doi.org/10.1126/science.abd4559>
14. Meza, D.K., Broos, A.B., Becker, D.J., Behdenna, A., Willett, B., Viana, M., **Streicker, D.G.** (2020) Predicting the presence and titer of rabies virus neutralizing antibodies from low-volume serum samples in low-containment facilities. **Transboundary and Emerging Diseases** <https://doi.org/10.1111/tbed.13826>
15. Benavides, J.A., Valderrama, W., Recuenco, S., Uieda, W., Suzán, G., Avila-Flores, R., Velasco-Villa, A., Almeida, M., Andrade, F.A., Molina, M., Vigilato, M., Pompei, J., Tizzani, P., Carrera, J., Ibanez, D., **Streicker, D.G.** (2020) Defining new pathways to manage the ongoing emergence of bat rabies in Latin America. **Viruses** <https://doi.org/10.3390/v12091002>
16. Bergner, L.M., Orton, R.J., & **Streicker, D.G.** (2020) Complete *Alphacoronavirus* genome sequence from common vampire bats in Peru. **Microbiology Resource Announcements** <https://doi.org/10.1128/MRA.00742-20>
17. Olival, K., Cryan, P.M., Amman, B.R., Baric, R.S., Blehert, D.S., Brook, C., Calisher, C., Castle, K.T., Coleman, J.T.H., Daszak, P., Epstein, J.H., Field, H., Frick, W.F., Gilbert, A.T., Hayman, D.T.S., Ip, H.S., Karesh, W.B., Kreuder Johnson, C., Kading, R.C., Kingston, T., Lorch, J., Mendenhall, I.H., Peel, A.J., Phelps, K.L., Plowright, R.K., Reeder, D.M., Reichard, J.D., Sleeman, J.M., **Streicker, D.G.**, Towner, J.S., Wang, L-F. (2020) Possible risks of SARS-CoV-2 spillover from humans to free-ranging wildlife: a case study of bats **PLoS Pathogens** <https://doi.org/10.1371/journal.ppat.1008758>
18. Becker, D.J., Broos, A., Bergner, L.M., Meza, D.K., Simmonds, N.B., Fenton, M.B., Altizer, S. & **Streicker D.G.** (2020) Temporal patterns of vampire bat rabies and host connectivity in Belize. **Transboundary and Emerging Diseases** <https://doi.org/10.1111/tbed.13754>
19. Mollentze, N. & **Streicker, D.G.** (2020) Viral zoonotic risk is homogenous among taxonomic orders of mammalian and avian reservoir hosts. **Proceedings of the National Academy of Sciences** <https://doi.org/10.1073/pnas.1919176117>
20. Becker, D.J., Speer, K.A., Brown, A.M., Washburne, A.D., Fenton, M.B., Altizer, S., **Streicker, D.G.**, Plowright, R.K., Chizhikov, V.E., Simmons, N.B., & Volokhov, D.V. (2020) Ecological and evolutionary drivers of hemoplasma infection and genotype sharing in a Neotropical bat community. **Molecular Ecology** <https://doi.org/10.1111/mec.15422>
21. Benavides, J. Velasco-Villa A., Godino, L.C., Satheshkumar, P.S., Nino, R., Rojas-Paniagua E., Shiva C., Falcon, N, & **Streicker D.G.** (2020) Abortive vampire bat rabies infections in Peruvian

peridomestic livestock. **PLoS Neglected Tropical Diseases**
<https://doi.org/10.1371/journal.pntd.0008194>

22. Fenton, M.B., **Streicker, D.G.**, Racey, P.A., Tuttle, M.D., Medellín, R.A., Daley, M.J., Recuenco, S. & Bakker, K.M. (2020) Matters arising: Knowledge gaps about rabies transmission from vampire bats to humans. **Nature Ecology and Evolution**. doi: 10.1038/s41559-020-1144-3
23. Bakker, K.M., Rocke, T.E., Osorio, J.E., Tello, C., Carrera, C., Valderrama, W., Shiva, C., Falcon, N., & **Streicker, D.G.** (2019) Fluorescent biomarkers demonstrate prospects for self-spreading vaccines to control disease transmission in wild bats. **Nature Ecology & Evolution** 10.1038/s41559-019-1032-x
24. **Streicker, D.G.**, Fallas González, S.L., Luconi, G., González Barrientos, R., & Leon, B. (2019) Phylodynamics reveals extinction-recolonization dynamics underpin apparently endemic vampire bat rabies in Costa Rica. **Proceedings of the Royal Society B** 10.1098/rspb.2019.1527
25. Bergner, L.M, Orton, R.J., Benavides, J.A., Becker, D.J., Tello, C., Biek, R., & **Streicker, D.G.** (2019) Viral diversity is shaped by host demography and environmental heterogeneity as revealed by ecological metagenomics in vampire bats. **Molecular Ecology** 10.1111/mec.15250
26. Becker, D.J., Nachtmann, C., Argibay, D.N, Botto, G., Czirják, G.A., Escalera-Zamudio, M., Carrera, J.E., Tello, C., Winiarski, E., Greenwood, A.D., Rojas-Anaya, E., Loza-Rubio, E., Lavergne, A., de Thoisy, B., Plowright, R.K., Altizer, S. & **Streicker, D.G.** (2019) Leukocyte profiles reflect geographic range limits in a widespread Neotropical bat. **Integrative and Comparative Biology** 10.1093/icb/icz007
27. Grillet, M., Hernández, J., Llewellyn, M., Paniz-Mondolfi, A., Tami, A., Vincenti-Gonzalez, M., Marquez, M., Mogollon-Mendoza, A., Hernandez-Pereira, C., Plaza-Morr, J., Blohm, G., Grijalva, M., Costales, J., Ferguson, H., Schwabl, P., Hernandez-Castro, L., Lambertson, P., **Streicker, D.G.**, Haydon, D., Miles, M., Acosta-Serrano, A., Acquattella, H., Basañez, M., Benaim, G., Colmenares, L., Conn, J., Espinoza, R., Freilij, H., Graterol-Gil, Hotez, P., & Kato, H. (2019) Venezuela's humanitarian crisis, resurgence of vector-borne diseases and implications for spillover in the region: a call for action. **Lancet Infectious Diseases** 10.1016/S1473-3099(18)30757-6
28. Bergner, L., Orton, R.J., da Silva Filipe, A., Shaw, A., Becker, D., Tello, C., Biek, R. & **Streicker, D.G.** (2018) Using non-invasive metagenomics to characterize viral communities from wildlife. **Molecular Ecology Resources** doi: 10.1111/1755-0998.12946. PMID: 30240114
29. Babayan, S., Orton, R.J. & **Streicker D.G.** (2018) Predicting Reservoir Hosts and Arthropod Vectors from Evolutionary Signatures in RNA Virus Genomes. **Science**
<https://doi.org/10.1126/science.aap9072>
30. Becker, D.J., Bentz, A.B., Bergner, L.M., Orton, R.J., Altizer, S.A. & **Streicker, D.G.** (2018) Genetic diversity, infection prevalence and possible transmission routes of *Bartonella* spp. in vampire bats. **PLoS Neglected Tropical Diseases** doi: 10.1371/journal.pntd.0006786. PMID: 30260954
31. **Benavides, J.**, Shiva, C., Virhuez, M., Tello, C., Appelgren, A., Vendrell, J., Solassol, J., Godreuil, S., **Streicker, D.G.** (2018) Extended-spectrum beta-lactamases-producing *Escherichia coli* in common vampire bats *Desmodus rotundus* and livestock in Peru. **Zoonoses and Public Health** doi: 10.1111/zph.12456.
32. Bohmann, K., Gopalakrishnan, S., Nielsen, L., Jones, G., **Streicker, D.G.**, Gilbert, M. (2018) Using DNA metabarcoding for simultaneous inference of common vampire bat diet and population structure. **Molecular Ecology Resources** doi: 10.1111/1755-0998.12891
33. Altizer, S.A., Becker, D.J, Epstein, J.H., Forbes, K.M., Gillespie, T.R., Hall, R.J., Hawley, D., Hernandez, S.M., Martin, L.B., Plowright, R.K., Satterfield, D.A., & **Streicker D.G.** (2018) Food for contagion: Synthesis and future directions for studying host–parasite responses to resource shifts in anthropogenic environments. **Philosophical Transactions of the Royal Society B** doi: 10.1098/rstb.2017.0102
34. Fisher, C., **Streicker, D.G.**, Schnell, M. (2018) The spread and evolution of rabies virus: conquering new frontiers **Nature Reviews Microbiology** doi: 10.1038/nmicro.2018.11
35. Zepeda-Mendoza, M.L.* , Xiong, Z., Escalera-Zamudio, M., Runge, A.K., Thézè, J., **Streicker, D.G.**, Frank, H.K., Loza-Rubio, E., Liu, S., Ryder, O.A., Katzourakis, A., Pybus, O.G., Li, Y., Rojas-Anaya, E., Bohmann, K., Carmona-Baez, A., Liu, S., Greenwood, A.D., Frost Bertelsen, M., White, N., Bunce, M.,

- Zhang, G. Sicheritz-Pontén, T. & Gilbert, M.T.P. (2018) Hologenomic adaptations underlying the evolution of sanguivory in the vampire bat. **Nature Ecology and Evolution** doi: 10.1038/s41559-018-0476-8
36. Becker, D., Czirják, G.A., Volokhov, D.V., Bentz A.B, Carrera, J.E., Camus, M.S., Navara, K.J., Chizhikov, V.E., Fenton, M.B, Simmons, N.B., Gilbert, A.T., Recuenco, S.E., Altizer, S., **Streicker, D.G.** (2018) Livestock abundance predicts vampire bat demography, immune profiles, and bacterial infection risk. **Philosophical Transactions of the Royal Society B** doi: 10.1098/rstb/2017.0089
 37. Benavides, J., Rojas Paniagua, E., Hampson, K. & **Streicker, D.G.** (2017) Quantifying the burden of vampire bat rabies in Peruvian livestock. **PLoS Neglected Tropical Diseases** doi: 10.1371/journal.pntd.0006105
 38. Volokhov, D.V., Becker, D.J., Bergner, L.M., Camus, M.S., Orton, R.J., Chizhikov, V.E., Altizer, S. & **Streicker, D.G.** (2017) Novel hemotropic mycoplasmas are widespread and genetically diverse in vampire bats. **Epidemiology and Infection** doi: 10.1017/S095026881700231X
 39. Becker, D.J., **Streicker, D.G.**, Altizer, S.A. (2017) Using host species traits to understand the consequences of resource provisioning for host-parasite interactions. **Journal of Animal Ecology** doi: 10.1111/1365-2656.12765
 40. Becker, D.J., Chumchal, M.M., Bentz. A.B., Platt, S.G., Czirják, G.A., Rainwater, T.R., Altizer, S., **Streicker, D.G.** (2017) Predictors and immunological consequences of sublethal mercury exposure in vampire bats. **Royal Society Open Science** doi: 10.1098/rsos.170073
 41. Pepin, K., Davis, A., **Streicker, D.G.**, Fischer, J, VerCauteren, K. & Gilbert, A. (2017) Predicting spatial spread of rabies in wildlife populations using surveillance data reported by the public. **PLoS Neglected Tropical Diseases** doi: 10.1371/journal.pntd.0005822
 42. Velasco-Villa, A., Escobar, E., Sanchez, A., Shi, M., **Streicker, D.G.**, Gallardo-Romero, N., Vargas-Pino, F., Gutierrez-Cedillo, V., Damon, I. (2017) Successful strategies implemented towards the elimination of canine rabies in the Western Hemisphere. **Antiviral Research** doi: 10.1016/j.antiviral.2017.03.023
 43. Velasco-Villa, A., Mauldin, M. Shi, M., Escobar, E., Gallardo, N., Damon, I., Olson, V., **Streicker, D.G.**, Emerson, G. (2017) The history of rabies in the Western Hemisphere. **Antiviral Research** doi: 10.1016/j.antiviral.2017.03.013
 44. **Streicker, D.G.**, Winternitz, J., Satterfield, D., Condori-Condori, R.E., Broos, A., Tello, C., Recuenco, S., Velasco-Villa, A., Altizer, S., Valderrama, W. (2016) Host-pathogen evolutionary signatures reveal dynamics and future invasions of vampire bat rabies **Proceedings of the National Academy of Sciences of the USA** doi: 10.1073/pnas.1606587113
 45. Plowright, R., Peel, A., **Streicker, D.G.**, Gilbert, A., McCallum, H., Wood, J., Baker, M. & Restif, O. (2016) Transmission or within-host dynamics driving pulses of zoonotic viruses in reservoir-host populations **PLoS Neglected Tropical Diseases** doi: 10.1371/journal.pntd.0004796
 46. Benavides, J., Valderrama, W., & **Streicker, D.G.** Spatial expansions and travelling waves of rabies in vampire bats (2016) **Proceedings of the Royal Society B** doi: 10.1098/rspb.2016.0328
 47. **Streicker, D.G.** & Allgeier, J.E. From food web to disease ecology: foraging choices of vampire bats in diverse landscapes (2016) **Journal of Applied Ecology** doi: 10.1111/1365-2664.12690
 48. O'Shea, T., Cryan, P., Hayman, D., Plowright, R., **Streicker, D.G.** Multiple mortality events in bats: a global review (2016) **Mammal Review** doi: 10.1111/mam.12064
 49. Fenton, A., **Streicker, D.G.**, Petchy, O.L. & Pedersen, A.B., Are all hosts created equal? Partitioning host species contributions to parasite persistence in multi-host communities (2015) **American Naturalist** doi: 10.1086/683173
 50. Becker, D., **Streicker, D.G.** & Altizer, S.A. (2015) Linking anthropogenic resources to wildlife-pathogen dynamics: a review and meta-analysis. **Ecology Letters** doi: 10.1111/ele.12428
 51. Mollentze, N., Biek, R., & **Streicker D.G.** (2014) The role of viral evolution in rabies host shifts and emergence. **Current Opinion in Virology** doi: 10.1016/j.coviro.2014.07.004

52. Stoner-Duncan, B., **Streicker, D.G.** & Tedeschi, C. (2014) Vampire bats and rabies: towards an ecological solution to a public health problem. **PLoS Neglected Tropical Diseases** doi: 10.1371/journal.pntd.0002867
53. Gottdenker, N., **Streicker, D.G.**, Faust, C. & Carrol, R. (2014) Anthropogenic land use change and infectious diseases: a review of the evidence. **Ecohealth** doi: 10.1007/s10393-014-0941-z
54. **Streicker, D.G.** (2013) From Persistence to Cross-Species Emergence of a Viral Zoonosis. **Science** 342 (6163) doi: 10.1126/science.1247566 (**Science and SciLifeLab Prize Essay*)
55. Blackwood, J., **Streicker, D.G.**, Altizer, S. & Rohani, P. (2013) Resolving the roles of immunity, pathogenesis and immigration for rabies persistence in vampire bats. **Proceedings of the National Academy of Sciences of the USA** doi: 10.1073/pnas.1308817110
56. **Streicker, D.G.**, Fenton, A. & Pedersen, A.B. (2013) Differential sources of host species heterogeneity influence the transmission and control of multihost parasites **Ecology Letters** 16 (8); doi: 10.1111/ele.12122
57. Condori, R.E. **Streicker, D.G.**, Cabezas-Sanchez, C. & Velasco-Villa, A. (2013) Enzootic and epizootic rabies associated with vampire bats in Peru. **Emerging Infectious Diseases** 19 (9) doi: 10.3201/eid1909.130083
58. Tello, C., **Streicker, D.G.**, Gomez, J., Velazco, P. (2013) New records of pigmentation disorders in molossid and phyllostomid (Chiroptera) bats from Peru. **Mammalia** doi: 10.1515/mammalia-2013-0019
59. **Streicker, D.G.**, Franka, R., Jackson F.R. & Rupprecht, C.E. (2013) Anthropogenic roost switching and rabies virus dynamics in house roosting big brown bats. **Vector Borne and Zoonotic Diseases** 13 (7); doi: 10.1089/vbz.2012.1113
60. Faria, N., Suchard, M., Rambaut, A., **Streicker, D.G.** & Lemey, P. (2013) Simultaneously reconstructing viral cross-species transmission history and identifying the underlying constraints. **Philosophical Transactions of the Royal Society B** 368 (1614); doi: 10.1098/rstb.2012.0196
61. **Streicker, D.G.**, Altizer, S., Velasco-Villa & Rupprecht, C.E. (2012) Variable evolutionary routes to host establishment across repeated rabies virus host shifts among bats **Proceedings of the National Academy of Sciences of the USA** 109 (38); doi: 10.1073/pnas.1203456109.
62. **Streicker, D.G.**, Recuenco, S., Valderrama, W., Gomez-Benavides, J., Vargas, I., Pacheco, V., Condori, R.E, Montgomery, J., Rupprecht, C.E., Rohani, P. & Altizer, S. (2012) Ecological and anthropogenic drivers of rabies exposure in vampire bats: implications for transmission and control. **Proceedings of the Royal Society B** 279, 3384-3392; doi: 10.1098/rspb.2012.0538
63. **Streicker, D.G.**, Lemey, P., Velasco-Villa, A. & Rupprecht, C.E. (2012) Rates of viral evolution are linked to host geography in bat rabies. **PLoS Pathogens** 8 (5) doi: 10.1371/journal.ppat.1002720
64. Kuzmin, I., Shi, M., Orciari, L.A., Yager, P.A., Velasco-Villa, A., Kuzmina, N., **Streicker, D.G.**, Yu, C., Bergman, D.L. & Rupprecht, C.E. (2012) Molecular inferences suggest multiple host shifts of rabies viruses from bats to mesocarnivores in Arizona during 2001-2009. **PLoS Pathogens** 8 (6), doi: 10.1371/journal.ppat.1002786
65. Daszak, P., Ball, S.J., **Streicker, D.G.**, Jones, C.G. & Snow, K.R. (2011) A new species of *Caryospora* Leger, 1904 (Apicomplexa: Eimeriidae) from the endangered Round Island boa *Casarea dussumieri* (Schlegel) (Serpentes: Bolyeridae) or Round Island, Mauritius: an endangered parasite? **Systematic Parasitology** 78: 117-122; doi: 10.1007/s11230-010-9280-9
66. Daszak, P., Ball, S.J., **Streicker, D.G.**, & Snow, K.R. (2011) A New Species of *Eimeria* (Apicomplexa: Eimeriidae) from the Western Hognose Snake, *Heterodon nasicus* (Serpentes: Xenodontidae), from Texas. **Journal of Parasitology** 97 (3): 463-465 doi: 10.1645/GE-2698.1
67. **Streicker, D.G.**, Turmelle, A.S., Vonhoff, M.J., Kuzmin, I., McCracken, G.F. & Rupprecht, C.E. (2010) Host phylogeny constrains cross-species emergence and establishment of rabies virus in bats. **Science** 329, 676; doi: 10.1126/science.1188836 (*cover article*).
68. Daszak, P., Ball, S.J., Jones, C.J., **Streicker, D.G.**, & Snow, K.R. (2009) Six new species of coccidia (Apicomplexa: Eimeriidae) from endangered *Phelsuma* spp. geckoes (Sauria: Gekkonidae) of the Black River Gorges National Park, Mauritius. **Folia Parasitologica** 56 (4): 233-241.

69. Cui, J., Han, N., **Streicker, D.G.**, Li, G., Tang, X., Shi, Z., Hu, Z., Zhao, G., Fontanet, A., Guan, Y., Wang, L., Jones, G., Field, H., Daszak, P., & Zhang, S. (2007) Evolutionary relationships between bat coronaviruses and their hosts. **Emerging Infectious Diseases** 13 (10): 1526-1532.
70. Franka, R., Constantine, D.G., Kuzmin, I., Velasco-Villa, A., Reeder, S., **Streicker, D.G.**, Orciari, L.A., Wong, A.J., Blanton, J.D. & Rupprecht, C.E. (2006) A new phylogenetic lineage of *Rabies virus* associated with western pipistrelle bats (*Pipistrellus hesperus*). **Journal of General Virology** 87 (8): 2309-2321.
71. Reeves, W.K., **Streicker, D.G.**, Loftis, A.D. & Dasch, G.A (2006) Serologic survey of *Eptesicus fuscus* from Georgia, U.S.A. for *Rickettsia* and *Borrelia* and laboratory transmission of a *Rickettsia* by bat ticks. **Journal of Vector Ecology** 31(2):386-389.

PREPRINTS & MANUSCRIPTS IN REVIEW

1. Benavides, J.A, Godreuil, S., Opazo-Capurro, A., Mahamat, O.O., Falcon, N., Oravcova, K., **Streicker, D.G.**, Shiva, C. Long-term maintenance of multidrug-resistant bacteria in vampire bats shared with livestock in Peru (*in review*)
2. Griffiths, M.E., Broos, A., Bergner, L.M., Meza, D.K, Suarez, N.M., da Silva Filipe, A., Tello, C, Becker, D.J., **Streicker, D.G.** Multi-strain dynamics and phylogeographic structure of a candidate viral vector supports development of a transmissible vaccine for vampire bat rabies (*in revision*)
3. Condori Condori R.E., Aragon, A., Breckenridge, M., Pesko, K., Mower, K., Ettestad, P., Melman, S., Velasco-Villa, A., Orciari, L.A., Yager, P., Streicker, D.G., Gigante, C.M., Morgan, C., Wallace, R. & Li, Y. Detection of a divergent rabies virus variant of likely bat origin in two gray foxes, New Mexico. (*submitted*)
4. Meza, D., Broos, A., Recuenco, S., Mollentze, N., Tello, C., Valderrama, W., Carrera, J., Shiva, C., Falcon, N., Viana, M. & Streicker, D. Ecological determinants of rabies dynamics in vampire bats and spillover to livestock. (*in revision*)

OTHER PUBLICATIONS

1. Bergner, L.M. & **Streicker, D.G.** (2021) Hepatitis D: how the virus made the jump from animals to humans. **The Conversation**
2. **Streicker, D.G.** & Biek, R. (2021) Evolution of Rabies Virus (*Book chapter for Rabies: Scientific Basis of the Disease and Its Management*, Edited by Fooks and Jackson)
3. Benavides, J.A. & **Streicker, D.G.** (2016) How to stop vampire bats wreaking havoc (no stakes or garlic required). **The Conversation**
4. **Streicker, D.G.** & Pedersen, A.B. (2012) On the origin of zoonoses. **Science**, 338: 1030; doi: 10.1126/science.1230791 (*Invited review of Spillover: Animal Infections and the Next Human Pandemic*, by David Quammen)

INVITED PRESENTATIONS & SEMINARS

- 2021 Conferencia Virtual por el Dia Mundial Contra la Rabia 2021, Ministerio de Salud del Peru
- 2021 Ciclo de conferencias por el Día Mundial de Lucha Contra la Rabia 2021, Universidad Peruana Cayetano Heredia
- 2021 Webinar: Advances in Surveillance and Control of Vampire Bat Rabies, Sao Paulo, Brazil
- 2021 Scottish Bat Workers Conference, Bat Conservation Trust
- 2020 University of North Carolina-Charlotte, Department of Biological Sciences, North Carolina, USA
- 2020 Virtual Rabies in the Americas Conference **keynote address*
- 2020 World Rabies Day Virtual Health Conference, Organismo Internacional Regional de Sanidad Agropecuaria.
- 2020 Head of College Scholar's List Event, Glasgow, UK
- 2020 Glasgow Zoological Society, Glasgow, UK
- 2019 Ecological Society of America, *Organized Session: Ecological Levers for Human Health*. Louisville, Kentucky, USA
- 2019 Doñana Biological Station, Seville, Spain
- 2019 Scottish Tropical Ecology and Biology Meeting, Glasgow, UK
- 2018 TEDMED, Palm Springs, California, USA

- 2018 National Autonomous University of Mexico (UNAM), Faculty of Veterinary Sciences, Mexico City, Mexico
- 2018 National Service of Animal Health of Costa Rica, San Jose, Costa Rica
- 2018 67th Annual Wildlife Disease Association Conference, St. Augustine, Florida, USA
- 2018 Gaps and Opportunities for Research on Rabies, Zoonosis and Emerging Diseases in Peru, Centro de Investigaciones Tecnológicas, Biomedicas y Medioambientales (CITBM), Lima, Peru
- 2017 Institute of Research for Development (IRD)/Centre for Functional Ecology and Evolution (CEFE), Montpellier, France
- 2017 22nd Glasgow Virology Workshop, Glasgow, UK
- 2016 Pathogen Host Shifts Workshop, University of Cambridge, UK
- 2016 7th Joint Beit Memorial and Wellcome Beit Prize Fellows Meeting, London, UK
- 2016 Meril Animal Health, Atlanta, USA
- 2016 University of Wageningen, Netherlands
- 2015 British Ecological Society, Edinburgh, UK
- 2015 National Geographic Explorers Symposium, Washington, DC
- 2015 National Institute of Health of Peru, Lima, Peru
- 2015 20th Glasgow Virology Workshop, Glasgow, UK
- 2014 5th Joint Beit Memorial and Wellcome Beit Prize Fellows Meeting, London, UK
- 2014 VIII International Conference of the National Institute of Health of Peru, Lima, Peru
- 2014 Boyd Orr Symposium, Viral Genotype to Phenotype, Glasgow, UK
- 2014 University of Edinburgh, Institute of Evolutionary Biology, Edinburgh, UK
- 2014 Imperial College London, Department of Infectious Disease Epidemiology, London, UK
- 2014 Cambridge University, Department of Veterinary Medicine, Cambridge, UK
- 2014 Emory University, Population Biology, Ecology and Evolution, Atlanta, GA
**graduate student invited speaker*
- 2014 University of Georgia, Odum School of Ecology, Athens, GA
- 2014 Cambridge University, Department of Genetics, Cambridge, UK
- 2013 University of Upsalla, Sweden
- 2013 SciLifeLab, Stockholm, Sweden
- 2013 Ecology and Evolution of Infectious Diseases Conference, State College, PA
- 2013 ETH Zurich, Institute of Integrative Biology. Zurich, Switzerland.
- 2012 University of Glasgow, Institute of Biodiversity, Animal Health and Comparative Medicine. Glasgow, UK.
- 2012 University of Georgia College of Veterinary Medicine. Athens, GA
- 2012 Centers for Disease Control and Prevention, Division of High Consequence Pathogens and Pathology Science Seminar. Atlanta, GA
- 2011 University of Michigan Early Career Scientist Symposium. Ann Arbor, MI
- 2011 Infectious Diseases and One Health: Vaccines and Therapeutics. Atlanta, GA
- 2009 39th North American Society for Bat Research Conference. Special symposium on Health and Disease in Bats. Portland, OR
- 2009 Ministry of Health of Peru, Office of Epidemiology. Lima, Peru
- 2008 University of Georgia, Center for Tropical and Emerging Global Diseases, Athens, GA
- 2007 Amherst College, Department of Biology. Amherst, MA
- 2007 37th North American Society for Bat Research/14th International Bat Research Conference. Special Symposium on Emerging Diseases in Bats. Merida, Mexico
- 2007 Ministry of Health of Peru, Office of Epidemiology. Lima, Peru
- 2006 Wuhan Institute of Virology. Wuhan, China

CONTRIBUTED CONFERENCE PRESENTATIONS

- 2015 13th Ecology and Evolution of Infectious Diseases Conference, Athens, GA. *Poster.*
- 2015 4th International Berlin Bat Meeting, Berlin, Germany.
- 2014 European Wildlife Disease Association Conference, Edinburgh, UK.
- 2014 Jacques Monod Conference: From Emerging to Pandemic Viruses: Interplay between Host Ecology and Viral Evolution, Roscoff, France.
- 2012 Ecological Society of America, Portland, OR.
- 2011 Odum School of Ecology Graduate Student Symposium. Athens, GA.
- 2010 2nd Congress of the Peruvian Society of Mammalogy, National University of San Agustín, Arequipa, Peru (*in Spanish*).

- 2010 Ecology and Evolution of Infectious Disease Conference, Cornell University. Ithaca, NY. *Poster.*
- 2008 International Conference on Rabies in the Americas, Centers for Disease Control and Prevention. Atlanta, GA. *Poster.*
- 2008 Ecology and Evolution of Infectious Disease Conference, Colorado State University. Ft. Collins, CO. *Poster.*
- 2008 University of Georgia Graduate Student Symposium. Athens, GA.
- 2007 Ecology and Evolution of Infectious Disease Conference, Cornell University. Ithaca, NY.
- 2007 University of Georgia Graduate Student Symposium. Athens, GA.
- 2006 University of Georgia Ecology of Infectious Diseases Lecture Series, Athens, GA. *Poster.*
- 2003 Mountain Lake Biological Station REU Symposium, Pembroke, VA.

WORKING GROUPS & PANEL MEMBERSHIPS

- 2020 USDA, APHIS, Wildlife Services, National Rabies Management Program (NRMP) and National Wildlife Research Center (NWRC) Blue Ribbon Panel on Vampire Bat Surveillance/Rabies Management Strategies
- 2020 USGS National Rapid Risk Assessment for Risk of SARS-CoV-2 to North American Bats
- 2017 USGS 'Spillover at the Wildlife-Livestock Interface' Workshop, Ft. Collins, CO
- 2016 – pres. Bat Rabies Vaccination Working Group
- 2013 RAPIDD Cross-Species Prediction; Ft. Collins, CO
- 2012 – 2015 RAPIDD Small Mammal Reservoirs of Infectious Disease
- 2010 RAPIDD Cross-Species Transmission Workshop; Bethesda, MD.
- 2010 – 2013 Computational Ecology and Epidemiology Study Group, Athens, GA.

SUPERVISION & EXAMINATION

Postdocs

1. Rita Ribeiro, University of Glasgow, 2021-pres.
2. Jocelyn Perez Lazo, University of Glasgow, 2021-pres.
3. Laura Bergner, University of Glasgow, 2018-pres.
4. Nardus Mollentze, University of Glasgow, 2018-pres.
5. Kevin Bakker, University of Glasgow, 2017-2018. *Current position:* NIH Research Fellow / Research Faculty, University of Michigan
6. Julio Benavides, University of Glasgow, 2014-2018. *Current position:* Assistant Professor, Universidad Andres Bello, Chile
7. Richard Orton, University of Glasgow, 2017-2018. *Current position:* Bioinformatician, MRC-University of Glasgow Centre for Virus Research.

PhD Students

1. Haris Malik, University of Glasgow, 2021-pres. *Pre-empting emerging viruses: infection dynamics of a transmissible vaccine candidate against vampire bat-transmitted rabies*
2. Hollie French, University of Glasgow, 2021-pres. *Integrating multi-pathogen genomic and serological surveillance for geographically-targeted disease control*
3. Zulma Rojas, Andres Bello University (Chile), 2020-pres. *Environmental and anthropogenic drivers of bat-borne pathogens in Latin America.* Co-advised with Julio Benavides
4. Megan Griffiths, University of Glasgow, 2019-pres. *Ecology and evolution of bat betaherpesviruses*
5. Diana Villa Meza, University of Glasgow, 2018-pres. *Dynamics of viral co-infections in wild vampire bats.* Co-advised with Mafalda Viana and Pablo Murcia.
6. James Shepard, University of Glasgow, 2017-pres. *Transmission networks of novel viral causes of human febrile illness in Uganda.* Co-advised with Emma Thompson
7. Laura Bergner, University of Glasgow, 2014-2018. *Viral communities in vampire bats: geographic variation and ecological drivers.* Co-advised with Roman Biek and Richard Orton
8. Nardus Mollentze, University of Glasgow, 2013-2017. *Epidemiology and evolution of Rabies virus host shifts.* Co-advised with Roman Biek, Katie Hampson & Pablo Murcia
9. Daniel Becker, University of Georgia, 2011-2017. *Resource provisioning and wildlife disease: theory, meta-analysis and field studies.* Co-advised with Sonia Altizer. *Current position:* Assistant Professor, University of Oklahoma

Graduate Committee Member

1. Janine Seetahal, University of the West Indies, 2018-2021. PhD. Supervisor: Christine Carrington
2. German Botto, Montana State University, 2017-2021 PhD. Supervisor: Raina Plowright
3. Cecilia Montoya, Universidad Nacional Autónoma de México, 2020-2022. MSc. Supervisor: Rafael Ojeda Flores

PhD Examinations

1. Diana Prada, Murdoch University, 2020. *Viral ecology of Western Australian microbat communities*. Supervisor: Mark O'Dea
2. Francisco Miroslav Ulloa-Stanojlovic, University of Sao Paolo, 2019. *Descriptive evaluation of human and animal rabies and development of a predictive model of bovine rabies in Peru*. Supervisor: Ricardo Dias
3. Alfred Filol Salom, University of Glasgow, 2019. *The discovery of phage-inducible chromosomal islands (PICIs) in Gram-negative bacteria*. Supervisor: Jose Penades
4. Liam Brierley, University of Edinburgh, 2016. *The ecology of emerging diseases: virulence and transmissibility of human RNA viruses*. Supervisors: Amy Pedersen & Mark Woolhouse
5. Amy Burroughs, University of Queensland, 2015. *Risk factors for virus excretion from a bat colony: an observational study of grey-headed flying foxes (*Pteropus poliocephalus*) at Eastern Park, Geelong*. Supervisor: Lin-Fa Wang
6. Kirstyn Bruncker, University of Glasgow, 2016. *The landscape epidemiology of canine rabies virus in Tanzania*. Supervisors: Katie Hampson & Roman Biek

Masters Students

1. Hana Mayall, University of Glasgow, 2021. Quantitative Methods in Conservation, Ecology and Epidemiology (MSc). *Forecasting future invasions of vampire bat rabies*
2. Deborah Keen, University of Glasgow, 2020. Epidemiology of Infectious Diseases & Antimicrobial Resistance (MSc). *SARS-CoV-2: Elucidating potential intermediate hosts, species susceptible to reverse zoonotic transmission, and feasible model organisms using supervised machine learning*
3. Jingyi Chen, University of Glasgow, 2020. Biomedical Sciences (MSc). *Receptor binding of a novel bat alphacoronavirus*
4. Grace Walsh, University of Glasgow, 2020. Medical Genetics (MSc). *Evolutionary history of endogenous betaretroviruses in bats*
5. Katie Allan, University of Glasgow, 2018-2019. Ecology and Environmental Biology (MRes). *The role of hematophagous arthropods in the transmission of Bartonella spp. in the common vampire bats, Desmodus rotundus*.
6. Carly Trille, University of Glasgow, 2017-2018. Biomedical Sciences (MRes). *Community epidemiology of betaherpesviruses in South American bats*
7. Jordan Bone, University of Glasgow, 2017-2018. Quantitative Methods in Conservation, Ecology and Epidemiology (MSc). *Environmental factors and their impact on rabies epidemic spread across South America*
8. James Guildler, University of Glasgow, 2016-2017. Quantitative Methods in Conservation, Ecology and Epidemiology (MSc). *Vampire bat foraging effort: potential implications for social networks and rabies dynamics*
9. Danielle Dekoski, University of Glasgow, 2016-2017. Quantitative Methods in Conservation, Ecology and Epidemiology (MSc). *Effects of population demography and genetic structure on rabies exposure in common vampire bats (Desmodus rotundus)*
10. Megan Wallace, University of Glasgow, 2015-2016. Quantitative Methods in Conservation, Ecology and Epidemiology (MSc). *Ecological and evolutionary drivers of rabies transmission between bat species*.
11. Victoria Estacio, University of Glasgow, 2015-2016. Quantitative Methods in Conservation, Ecology and Epidemiology (MSc). *Ecological niche modelling of vampire bats and rabies outbreaks for rabies control*

TEACHING

2020	Wellcome Trust Integrative Infection Biology (PhD). University of Glasgow
2018 – 2021	BIOL 5314 <i>Emerging Viruses</i> (Masters). University of Glasgow
2017 – 2021	MRC-University of Glasgow Centre for Virus Research PhD Training Course
2017 – 2021	BIOL 4960 <i>Animal Biology</i> (Undergraduate). University of Glasgow
2017	Wellcome Advanced Course: <i>Mathematical Models for Infectious Disease Dynamics</i> , Hinxton, UK

2017 University of Glasgow, *Applied Ecology*
2014 3rd ANTIGONE OneHealth Course, Bonn, Germany
2009 – 2013 ECOL 6150 *Population Biology of Infectious Diseases*, University of Georgia. Athens, GA
2009 – 2013 ECOL 4000: *Evolutionary Ecology*, University of Georgia. Athens, GA
2008 & 2013 BIOL 461/861: *Ecology of Wildlife Diseases*, Mountain Lake Biological Station. Pembroke, VA
2004 – 2006 Organized and led bat speciation workshops for public health laboratorians. Atlanta, GA
2005 Instructor, National Laboratory Training Network: Rabies Diagnostics. Atlanta, GA

PROFESSIONAL SERVICE

Conference organization: 16th Ecology and Evolution of Infectious Diseases Conference (Lead Organizer, University of Glasgow), 4th International Berlin Bat Meeting (Chaired special session on Bat Movement and Infectious Diseases, Berlin). Ecology and Control of Infectious Diseases in Vampire Bats (Lead Organizer, Nov 2016, Cayetano Heredia University),

Journal Reviewer: *American Naturalist, Bioinformatics, BMC Research Notes, Ecohealth, Ecology and Evolution, Ecology Letters, Ecological Applications, eLife, Epidemics, Evolutionary Applications, Genome Research, Heredity, Infection Genetics and Evolution, Journal of Animal Ecology, Journal of Applied Ecology, Journal of Evolutionary Biology, Journal of the Royal Society Interface, Journal of Mammalogy, Lancet Infectious Diseases, Molecular Ecology, Nature Communications, Nature Ecology and Evolution, Nature Microbiology, Philosophical Transactions of the Royal Society B, Molecular Phylogenetics and Evolution, Pathogens and Global Health, PLoS Biology, PLoS Computational Biology, PLoS Neglected Tropical Diseases, PLoS One, PNAS, Proceedings of the Royal Society B, Science, Scientific Data, Virology, Virus Evolution, Virus Research, Zoonoses and Public Health*

Review Editor: *EcoHealth, PLoS Neglected Tropical Diseases*

Grant Reviewer: DEFRA, Leverhulme Trust, National Geographic, National Science Center of Poland, Royal Society, Singapore National Research Foundation, U.S. National Science Foundation, Wellcome Trust

REFERENCES

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