

CURRICULUM VITAE
DAVID E. STALLKNECHT

EDUCATION:

- Ph.D. Epidemiology and Community Health -- July, 1989
 School of Veterinary Medicine, Louisiana State University, Baton Rouge, LA
 Dissertation: Avian Influenza Viruses in Coastal Louisiana Waterfowl: Host and
 Environmental Factors Affecting Prevalence and Viral Persistence.
- M.S. Wildlife Biology -- June, 1977
 The University of Georgia, Athens, GA
 Thesis: Strontium-90 in Select Species of Southeastern Wildlife
- B.S. Forest Resources -- June, 1973 -- Cum Laude
 The University of Georgia, Athens, GA

ACADEMIC/RESEARCH AWARDS:

- Georgia Chapter Society of American Foresters Award, 1972
 Xi Sigma Pi, 1973
 Phi Kappa Phi, 1973
 Sigma Xi 1988
 Pfizer Award for Research Excellence 2004
 Wildlife Disease Association Distinguished Service Award 2009
 Charles Dobbins Award for Excellence in Service 2021

PROFESSIONAL EXPERIENCE:

- College of Veterinary Medicine, The University of Georgia, Athens, GA
 Department of Population Health/Southeastern Cooperative Wildlife Disease Study
 2019-present Professor, Director
 2009-present Professor
 2005-2009 Associate Professor
 Department of Infectious Diseases
 2004-2005 Associate Professor
 2000- 2004 Assistant Professor
 2004-present Adjunct Professor
 Southeastern Cooperative Wildlife Disease Study
 1998-2000 Associate Research Scientist
 1991-1998 Assistant Research Scientist
 1989-1991 Postdoctoral Research Associate
 1978-1986 Research Coordinator/Research Technician
 School of Veterinary Medicine, Louisiana State University, Baton Rouge, LA
 Department of Epidemiology and Community Health
 1986-1989 Alumni Federation Fellow

RELATED EXPERIENCE:

Exotic Newcastle Disease Eradication Task Forces, Emergency Programs, VS, APHIS, USDA.
 Miami, FL (1979), Santa Anna, CA (1980), Portland, OR (1980)
 National Wildlife Health Officer, Test Exercise Beta 82, Emergency Programs, VS, APHIS, USDA.
 Hyattsville, MD (1982)
 African Swine Fever Eradication Program, IICA.
 Port-au-Prince, Haiti (1982, 1984, 1985)
 Avian Influenza Eradication Task Force, Emergency Programs, VS, APHIS, USDA.
 Lancaster, PA (1983 and 1984), Harrisonburg, VA (1984)
 Swine Brucellosis and Pseudorabies Program Review Team. Veterinary Services, APHIS, USDA,
 Oklahoma (1992), South Carolina (1992), Florida (1993)

PROFESSIONAL MEMBERSHIPS AND CERTIFICATION:

The Wildlife Society (Certified Wildlife Biologist)
 The Wildlife Disease Association
 American Society for Microbiology

COMMITTEE EXPERIENCE AND SERVICE:

Committee on Wildlife Diseases, United States Animal Health Association, 1996-2010
 Committee on Bovine Retroviruses and Bluetongue, United States Animal Health Association,
 2000-2015
 United States Animal Health Association- Feral Swine Working Group Vice Chair, 2001-2002
 Sections Committee, The Wildlife Disease Association, 1994-1995, Chair 1995-2000
 West Nile Working Group-State of Georgia, 2001-2005
 Highly Pathogenic Influenza Virus Technical Working Group, USDA/CDC/USDI, 2004
 Wildlife Disease Working Group, The Wildlife Society 2011-2012
 Influenza Research Database, Scientific Advisory Group, NIH 2009-2013
 Board of Scientific Counselors (Ad Hoc) Rocky Mountain Laboratories NIH 2014
 Scientific Advisory Committee, Emory University Center of Excellence for Influenza Research
 and Surveillance NIH 2015-2018.

AD HOC REVIEWER: REFEREED SCIENTIFIC JOURNALS

Journal of Wildlife Diseases, American Journal of Veterinary Research, American Journal of Tropical Medicine and Hygiene, Journal of Veterinary Diagnostic Investigation, Microbiology, Ecology, Avian Pathology, Avian Diseases, Vaccine, Journal of Medical Entomology, Journal of Virologic Methods, Journal of Virology, Emerging Infectious Diseases, Science, PLoS ONE, Microbes and Infection, PNAS, Journal of Field Ornithology, Ecohealth, Influenza and Other Respiratory Viruses, Influenza Research and Treatment, Virus Research, Journal of Applied and Environmental Microbiology, Environmental Science and Technology, South African Journal of Science, Proceedings of the Royal Society B, Epidemiology and Infection, Veterinary Research, Canadian Veterinary Journal, Aquatic Biosystems, Cogentbio, Ecological Letters, Scientific Reports, mSphere, Journal of Applied Ecology, Current Opinions in Virology, Emerging

Microbes and Infection, ACTA Tropica, Virus Genes, Ecological Applications, Zoonoses and Public Health

EDITORIAL WORK:

Co-Editor, *Journal of Wildlife Diseases* 2005-2010
 Assistant Editor, *Journal of Wildlife Diseases*, 1997-2005, 2010-2016
 Editorial Board, *Journal of Wildlife Diseases*, 2012-present

GRADUATE FACULTY EXPERIENCE

Graduate Faculty Appointment, The University of Georgia, 1996
Committee Member: 61 PhD and Master's students
Major and Co-major Professor: 15 PhD and Master's students
External examiner: 3 PhD students at International Universities

UNDERGRADUATE, GRADUATE, AND PROFESSIONAL TEACHING EXPERIENCE:

Undergraduate and post graduate school mentor: 17 students
Professional Veterinary and Graduate Courses:
 MMIB 5250/ IDIS 5250/ POPH 5420 Epidemiology and Preventive Medicine 2000-2016
 PAR 5900/IDIS 8580/POPH 5200 Wildlife Diseases, 2001-2014
 MMIB 8900 Special Problems-Making Sense of Epidemiological Data, 2002
 MMIB 8900 Special Problems, Intro to Epidemiology, Fall 2002-2003
 IDIS 8580 Wildlife Disease Issues Spring 2006
 POPH 8580 Current topics in Wildlife Health, Spring 2007-2017

REFEREED PUBLICATIONS: 300+ refereed publications since 1982.

Complete list: <https://pubmed.ncbi.nlm.nih.gov/?term=stallknecht+d>

Publications in last two years:

- Crum JA, Mead DG, Jackwood MW, Phillips JE, **Stallknecht DE**. GENETIC RELATEDNESS OF EPIZOOTIC HEMORRHAGIC DISEASE VIRUS SEROTYPE 2 FROM 2012 OUTBREAK IN THE USA. *J Wildl Dis*. 2019 Apr;55(2):363-374. doi: 10.7589/2017-05-125. Epub 2018 Oct 4. PMID: 30284951.
- Clarke LL, Ruder MG, Kienzle-Dean C, Carter D, **Stallknecht D**, Howerth EW. EXPERIMENTAL INFECTION OF WHITE-TAILED DEER (*ODOCOILEUS VIRGINIANUS*) WITH BLUETONGUE VIRUS SEROTYPE 3. *J Wildl Dis*. 2019 Jul;55(3):627-636. doi: 10.7589/2018-06-159. Epub 2019 Jan 3. PMID: 30605393.
- Schirtzinger EE, Jasperson DC, Ruder MG, **Stallknecht DE**, Chase CCL, Johnson DJ, Ostlund EN, Wilson WC. Evaluation of 2012 US EHDV-2 outbreak isolates for genetic determinants of cattle infection. *J Gen Virol*. 2019 Apr;100(4):556-567. doi: 10.1099/jgv.0.001221. Epub 2019 Mar 14. PMID: 30869580.
- Mendiola SY, Mills MK, Maki E, Drolet BS, Wilson WC, Berghaus R, **Stallknecht DE**, Breitenbach J, McVey DS, Ruder MG. EHDV-2 Infection Prevalence Varies in *Culicoides sonorensis* after Feeding on Infected White-Tailed Deer over the Course of Viremia. *Viruses*. 2019 Apr 23;11(4):371. doi: 10.3390/v11040371. PMID: 31018507; PMCID: PMC6521023.
- Schirtzinger EE, Ruder MG, **Stallknecht DE**, Wilson WC. Complete Genome Sequence of a 2016

- Bluetongue Virus Serotype 3 Isolate from Louisiana. *Microbiol Resour Announc.* 2019 May 9;8(19):e00128-19. doi: 10.1128/MRA.00128-19. PMID: 31072891; PMCID: PMC6509516.
- Ramey AM, Uher-Koch BD, Reeves AB, Schmutz JA, Poulson RL, **Stallknecht DE**. Emperor geese (*Anser canagicus*) are exposed to a diversity of influenza A viruses, are infected during the non-breeding period and contribute to intercontinental viral dispersal. *Transbound Emerg Dis.* 2019 Sep;66(5):1958-1970. doi: 10.1111/tbed.13226. Epub 2019 Jun 6. PMID: 31077545.
- Hollander LP, Fojtik A, Kienzle-Dean C, Davis-Fields N, Poulson RL, Davis B, Mowry C, **Stallknecht DE**. Prevalence of Influenza A Viruses in Ducks Sampled in Northwestern Minnesota and Evidence for Predominance of H3N8 and H4N6 Subtypes in Mallards, 2007-2016. *Avian Dis.* 2019 Mar 1;63(sp1):126-130. doi: 10.1637/11851-041918-Reg.1. PMID: 31131568.
- Segovia KM, França MS, Bahnson CS, Latorre-Margalef N, **Stallknecht DE**. Are Microneutralization and Hemagglutination Inhibition Assays Comparable? Serological Results from Influenza Experimentally Infected Mallard Ducks. *Avian Dis.* 2019 Mar 1;63(sp1):138-144. doi: 10.1637/11886-042718-Reg.1. PMID: 31131570; PMCID: PMC7213506.
- Carter D, Link P, Walther P, Ramey A, **Stallknecht D**, Poulson R. Influenza A Prevalence and Subtype Diversity in Migrating Teal Sampled Along the United States Gulf Coast. *Avian Dis.* 2019 Mar 1;63(sp1):165-171. doi: 10.1637/11850-041918-Reg.1. PMID: 31131574.
- Ferreri LM, Ortiz L, Geiger G, Barriga GP, Poulson R, Gonzalez-Reiche AS, Crum JA, **Stallknecht D**, Moran D, Cordon-Rosales C, Rajao D, Perez DR. Improved detection of influenza A virus from blue-winged teals by sequencing directly from swab material. *Ecol Evol.* 2019 May 11;9(11):6534-6546. doi: 10.1002/ece3.5232. PMID: 31236242; PMCID: PMC6580304.
- Stallknecht DE**, Kienzle-Dean C, Davis-Fields N, Jennelle CS, Bowman AS, Nolting JM, Boyce WM, Crum JM, Santos JJS, Brown JD, Prosser DJ, De La Cruz SEW, Ackerman JT, Casazza ML, Krauss S, Perez DR, Ramey AM, Poulson RL. LIMITED DETECTION OF ANTIBODIES TO CLADE 2.3.4.4 A/GOOSE/GUANGDONG/1/1996 LINEAGE HIGHLY PATHOGENIC H5 AVIAN INFLUENZA VIRUS IN NORTH AMERICAN WATERFOWL. *J Wildl Dis.* 2020 Jan;56(1):47-57. Epub 2019 Sep 26. PMID: 31556839.
- Bahnson CS, Poulson RL, Hollander LP, Crum Bradley JA, **Stallknecht DE**. SUSCEPTIBILITY OF LAUGHING GULLS (*LEUCOPHAEUS ATRICILLA*) AND MALLARDS (*ANAS PLATYRHYNCHOS*) TO RUDDY TURNSTONE (*ARENARIA INTERPRES MORINELLA*) ORIGIN TYPE A INFLUENZA VIRUSES. *J Wildl Dis.* 2020 Jan;56(1):167-174. Epub 2019 Sep 18. PMID: 31532732.
- Bahnson CS, Hernandez SM, Poulson RL, Cooper RE, Curry SE, Ellison TJ, Adams HC, Welch CN, **Stallknecht DE**. EXPERIMENTAL INFECTIONS AND SEROLOGY INDICATE THAT AMERICAN WHITE IBIS (*EUDOCIUMUS ALBUS*) ARE COMPETENT RESERVOIRS FOR TYPE A INFLUENZA VIRUS. *J Wildl Dis.* 2020 Jul;56(3):530-537. doi: 10.7589/2019-05-136. Epub 2020 Jan 2. PMID: 31895646.
- Reeves AB, Ramey AM, Koch JC, Poulson RL, **Stallknecht DE**. Field-based method for assessing duration of infectivity for influenza A viruses in the environment. *J Virol Methods.* 2020 Mar;277:113818. doi: 10.1016/j.jviromet.2020.113818. Epub 2020 Jan 7. PMID: 31923446.
- Jia B, Colling A, Stallknecht DE, Blehert D, Bingham J, Crossley B, Eagles D, Gardner IA. Validation of laboratory tests for infectious diseases in wild mammals: review and

- recommendations. *J Vet Diagn Invest.* 2020 Nov;32(6):776-792. doi: 10.1177/1040638720920346. Epub 2020 May 29. PMID: 32468923; PMCID: PMC7649530.
- Christensen SA, Ruder MG, Williams DM, Porter WF, **Stallknecht DE**. The role of drought as a determinant of hemorrhagic disease in the eastern United States. *Glob Chang Biol.* 2020 Jul;26(7):3799-3808. doi: 10.1111/gcb.15095. Epub 2020 Apr 27. PMID: 32227543.
- Verhagen JH, Poen M, **Stallknecht DE**, van der Vliet S, Lexmond P, Sreevatsan S, Poulson RL, Fouchier RAM, Lebarbenchon C. Phylogeography and Antigenic Diversity of Low-Pathogenic Avian Influenza H13 and H16 Viruses. *J Virol.* 2020 Jun 16;94(13):e00537-20. doi: 10.1128/JVI.00537-20. PMID: 32321814; PMCID: PMC7307148.
- Taylor KY, Ruder MG, Mead DG, **Stallknecht DE**. An Embryonated Egg Transmission Model for Epizootic Hemorrhagic Disease Virus. *Vector Borne Zoonotic Dis.* 2020 Sep;20(9):728-730. doi: 10.1089/vbz.2019.2590. Epub 2020 May 18. PMID: 32423316.
- Reeves AB, Ramey AM, Poulson RL, **Stallknecht DE**. The Genome Sequence of an H6N5 Influenza A Virus Strain Isolated from a Northern Pintail (*Anas acuta*) Sampled in Alaska, USA, Shares High Identity with That of a South Korean Wild Bird Strain. *Microbiol Resour Announc.* 2020 Aug 13;9(33):e00639-20. doi: 10.1128/MRA.00639-20. PMID: 32817149; PMCID: PMC7427187.
- Jerry C, **Stallknecht D**, Leyson C, Berghaus R, Jordan B, Pantin-Jackwood M, Hitchener G, França M. Recombinant hemagglutinin glycoproteins provide insight into binding to host cells by H5 influenza viruses in wild and domestic birds. *Virology.* 2020 Nov;550:8-20. doi: 10.1016/j.virol.2020.08.001. Epub 2020 Aug 12. PMID: 32861143; PMCID: PMC7554162.
- Ramey AM, Reeves AB, Drexler JZ, Ackerman JT, De La Cruz S, Lang AS, Leyson C, Link P, Prosser DJ, Robertson GJ, Wight J, Youk S, Spackman E, Pantin-Jackwood M, Poulson RL, **Stallknecht DE**. Influenza A viruses remain infectious for more than seven months in northern wetlands of North America. *Proc Biol Sci.* 2020 Sep 9;287(1934):20201680. doi: 10.1098/rspb.2020.1680. Epub 2020 Sep 9. PMID: 32901574; PMCID: PMC7542776.
- Poulson R, Carter D, Beville S, Niles L, Dey A, Minton C, McKenzie P, Krauss S, Webby R, Webster R, **Stallknecht DE**. Influenza A Viruses in Ruddy Turnstones (*Arenaria interpres*); Connecting Wintering and Migratory Sites with an Ecological Hotspot at Delaware Bay. *Viruses.* 2020 Oct 22;12(11):1205. doi: 10.3390/v12111205. PMID: 33105913; PMCID: PMC7690596.
- Young KT, Lahmers KK, Sellers HS, **Stallknecht DE**, Poulson RL, Saliki JT, Tompkins SM, Padykula I, Siepker C, Howerth EW, Todd M, Stanton JB. Randomly primed, strand-switching, MinION-based sequencing for the detection and characterization of cultured RNA viruses. *J Vet Diagn Invest.* 2021 Mar;33(2):202-215. doi: 10.1177/1040638720981019. Epub 2020 Dec 24. PMID: 33357075; PMCID: PMC7953086.
- Diskin ER, Friedman K, Krauss S, Nolting JM, Poulson RL, Slemmons RD, **Stallknecht DE**, Webster RG, Bowman AS. Subtype Diversity of Influenza A Virus in North American Waterfowl: a Multidecade Study. *J Virol.* 2020 May 18;94(11):e02022-19. doi: 10.1128/JVI.02022-19. PMID: 32188732; PMCID: PMC7269424.
- Reeves AB, Killian ML, Tanner ME, Lagassé BJ, Ramey AM, **Stallknecht DE**, Poulson RL. Coding-Complete Genome Sequence of *Avian orthoavulavirus 16*, Isolated from Emperor Goose (*Anser canagicus*) Feces, Alaska, USA. *Microbiol Resour Announc.* 2021 Jan 7;10(1):e01275-20. doi: 10.1128/MRA.01275-20. PMID: 33414353.

- Carter DL, Link P, Tan G, **Stallknecht DE**, Poulson RL. Influenza A Viruses in Whistling Ducks (Subfamily Dendrocygninae). *Viruses*. 2021 Jan 28;13(2):192. doi: 10.3390/v13020192. PMID: 33525360; PMCID: PMC7911599.
- Stilwell NK, Clarke LL, Howerth EW, Kienzle-Dean C, Fojtik A, Hollander LP, Carter D, Osborn DA, D'Angelo GJ, Miller KV, **Stallknecht DE**, Ruder MG. The Effect of Maternal Antibodies on Clinical Response to Infection with Epizootic Hemorrhagic Disease Virus in White-Tailed Deer (*Odocoileus virginianus*) Fawns. *J Wildl Dis*. 2021 Jan 6;57(1):189-193. doi: 10.7589/JWD-D-20-00001. PMID: 33635998.
- Casey CL, Rathbun SL, **Stallknecht DE**, Ruder MG. Spatial Analysis of the 2017 Outbreak of Hemorrhagic Disease and Physiographic Region in the Eastern United States. *Viruses*. 2021 Mar 25;13(4):550. doi: 10.3390/v13040550. PMID: 33806137; PMCID: PMC8064433.
- Criado MF, Moresco KA, **Stallknecht DE**, Swayne DE. Low-pathogenicity influenza viruses replicate differently in laughing gulls and mallards. *Influenza Other Respir Viruses*. 2021 Jun 10. doi: 10.1111/irv.12878. Epub ahead of print. PMID: 34109758.
- Jerry C, **Stallknecht DE**, Leyson C, Berghaus R, Jordan B, Pantin-Jackwood M, França MS. Age-Associated Changes in Recombinant H5 Highly Pathogenic and Low Pathogenic Avian Influenza Hemagglutinin Tissue Binding in Domestic Poultry Species. *Animals (Basel)*. 2021 Jul 28;11(8):2223. doi: 10.3390/ani11082223. PMID: 34438681; PMCID: PMC8388419.
- Ramey AM, Reeves AB, Lagassé BJ, Patil V, Hubbard LE, Kolpin DW, McCleskey RB, Repert DA, **Stallknecht DE**, Poulson RL. Evidence for interannual persistence of infectious influenza A viruses in Alaska wetlands. *Sci Total Environ*. 2021 Sep 3;803:150078. doi: 10.1016/j.scitotenv.2021.150078. Epub ahead of print. PMID: 34525758.
- Stallknecht, D.E.**, R L. Poulson, S. Krauss, and R.G. Webster. Influenza A Viruses and Delaware Bay Shorebirds. *Wader Study (In Press)*.

BOOK CHAPTERS:

- Howerth, E.W, **D.E. Stallknecht** and P.D. Kirkland. 2001. Orbiviruses. *In: Infectious Diseases of Wild Mammals*. Iowa State Press pp 77-98.
- Stallknecht, D.E.** and E.W. Howerth. 2001. Pseudorabies (Aujeszky's Disease). *In: Infectious Diseases of Wild Mammals*. Iowa State Press pp.164-169.
- Contributing Author. 1997. *Field Manual of Wildlife Diseases in the Southeastern United States 2nd edition*. Southeastern Cooperative Wildlife Disease Study. 417 pp.
- Contributing Author. 2006. *Field Manual of Wildlife Diseases in the Southeastern United States 3rd edition*. Southeastern Cooperative Wildlife Disease Study. 447 pp.
- Stallknecht, D.E.** Impediments to wildlife disease surveillance, research, and diagnostics. 2007. *In: Wildlife and Emerging Zoonotic Diseases: The Biology, Circumstances, and Consequences of Cross-Species Transmission*. Springer Verlag, Berlin pp.446-459.
- Stallknecht, D.E.**, R. Slemmons, E. Nagy, and B. Hunter. Avian Influenza. 2007. *In: Infectious Diseases of Wild Birds*. Blackwell Publishing, Ames, Iowa, pp.108-130
- Brown, J.D. and **D.E. Stallknecht**. 2007. Wild Bird Surveillance. *In: Avian Influenza Virus. Methods in Molecular Biology*. Humana Press, Totowa, NJ, USA. pp. 85-98.
- Stallknecht, D.E.** and J.D. Brown. 2008. Ecology of Avian Influenza. *In: Avian Influenza*. Blackwell Publishing, Ames, Iowa, pp 43-58.
- Stallknecht, D.E.** and J.D. Brown. 2009. Tenacity of avian influenza viruses. *In: Avian Influenza. Revue scientifique et technique*. OIE. 28: 59-67.

- Brown, J., D.E. Swayne, T. Costa, and **D.E. Stallknecht**. 2011. Experimental infection studies of avian influenza in wild birds as a compliment to surveillance. *Pandemic influenza viruses: Science, Surveillance, and Public Health*. Pennsylvania Academy of Sciences. 176-200.
- Lebarbenchon, C. and **D.E. Stallknecht**. 2011. Avian influenza virus ecology. *Pandemic influenza viruses: Science, Surveillance, and Public Health*. Pennsylvania Academy of Sciences. 45-58.
- Brown, J.D. and **D.E. Stallknecht**. 2014. Wild Bird Surveillance for Avian Influenza Virus. *Methods in Molecular Biology* 1161 pp 69-81.
- Stallknecht, D.E.** and J.D. Brown. 2016 Wild Bird Infections and the Ecology of Avian Influenza Viruses. *Animal Influenza*. 2nd edition. D Swayne Editor, Wiley Blackwell, Ames, IA pp. 153-176.