

Recent NVSL Publications

Virology

Vincent A, Awada L, Brown I, Chen H, Claes F, Dauphin G, Donis R, Culhane M, Hamilton K, Lewis N, Mumford E, Nguyen T, Parchariyanon S, Pasick J, Pavade G, Pereda A, Peiris M, Saito T, **Swenson SL**, Van Reeth K, Webby R, Wong F, Ciacci-Zanella J. Review of influenza A virus in swine worldwide: a call for increased surveillance and research. *Zoonoses and Public Health*. 2013 Apr. doi:10.1111/zph.12049.

Pedersen JC, Hines NL, Killian ML, Predgen AS, Schmitt BJ. Isolation of a virulent newcastle disease virus from Confiscated LaSota Vaccine. *Avian Diseases*, 57 (2): 316-320. June 2013. doi: 10.1637/10420-101512.

Spackman E, **Pedersen JC**, McKinley ET, Gelb J Jr. Optimal specimen collection and transport methods for the detection of avian influenza virus and Newcastle disease virus. *BMC Vet Res*. 2013 Feb 22; 9:35. doi: 10.1186/1746-6148-9-35.

Kitikoon P, Nelson MI, **Killian ML**, Anderson TK, **Koster LG**, Culhane MR, Vincent AL. Genotype patterns of contemporary reassorted H3N2 virus in U.S. swine. *J Gen Virol*. June 13. 94(6):1236-1241. doi: 10.1099/vir.0.51839-0. [Epub 2013 March 13]

Courtney SC, Susta L, Gomez D, **Hines NL, Pedersen JC**, Brown CC, Miller PJ, Afonso CL. Highly Divergent Virulent Isolates of Newcastle Disease Virus from the Dominican Republic are Members of a New Genotype that may have Evolved Unnoticed for Over Two Decades. *J Clin Microbiol*. 2013 Feb; 51(2):508-17. doi: 10.1128/JCM.02393-12. [Epub 2012 Nov 28]

Palmer MV, **Thacker TC**, Madison RJ, **Koster LG, Swenson SL**, Li H. Active and Latent Ovine Herpesvirus-2 (OvHV-2) Infection in a Herd of Captive White-tailed Deer (*Odocoileus virginianus*). *J Comp Pathol*. 2013 Feb 28. doi:pii: S0021-9975(13)00019-4. 10.1016/j.jcpa.2013.01.005. [Epub ahead of print]

Epperson S, Jhung M, Richards S, Quinlisk P, Ball L, Moll M, Boulton R, Haddy L, Biggerstaff M, Brammer L, Trock S, Burns E, Gomez T, Wong KK, Katz J, Lindstrom S, Klimov A, Bresee JS, Jernigan DB, Cox N, Finelli L; Influenza A (H3N2)v Virus Investigation Team. Human infections with influenza A (H3N2) variant virus in the United States, 2011-2012. *Clin Infect Dis*. 2013 Jul; 57 Suppl 1:S4-S11. doi: 10.1093/cid/cit272. [**Swenson, SL**. collaboration, not listed as author]

Lopez-Martinez I, Balish A, Barrera-Badillo G, Jones J, Nuñez-García TE, Jang Y, Aparicio-Antonio R, Azziz-Baumgartner E, Belser JA, Ramirez-Gonzalez JE, **Pedersen JC**, Ortiz-Alcantara J, Gonzalez-Duran E, Shu B, Emery SL, Poh MK, Reyes-Teran G, Vazquez-Perez

JA, Avila-Rios S, Uyeki T, Lindstrom S, Villanueva J, Tokars J, Ruiz-Matus C, Gonzalez-Roldan JF, **Schmitt BJ**, Klimov A, Cox N, Kuri-Morales P, Davis CT, Diaz-Quiñonez JA. Highly Pathogenic Avian Influenza A (H7N3) Virus in Poultry Workers, Mexico, 2012. *Emerg Infect Dis*. 2013 Sep; 19(9). doi: 10.3201/eid1909.130087.

Dubovi EJ, Hawkins M, Jr. Griffin RA, **Johnson DJ**, **Ostlund EN**. Isolation of Bluetongue virus from canine abortions. *J Vet Diag Invest*. 2013 Jul; 25(4):490-2. doi: 10.1177/1040638713489982. [Epub ahead of print]

Anderson TK, Nelson MI, Kitikoon P, **Swenson SL**, Korslund JA, Vincent AL. Population dynamics of co-circulating swine influenza A viruses in the United States from 2009-2012. *Influenza Other Respir Viruses*. 2013 Dec; 7 Suppl 4:42-51. doi: 10.1111/irv.12193.

McCluskey BJ, McCluskey AM, Creekmore L, **Schiltz J**. Vesicular stomatitis outbreak in the southwestern United States, 2012. *J Vet Diagn Invest*. 2013 Sep; 25(5) 608-613. doi: 10.1177/1040638713497945. [Epub 2013 Jul 24]

Guo B, Lager KM, Schlink SN, Kehrli ME Jr, Brockmeier SL, Miller LC, **Swenson SL**, Faaberg KS. Chinese and Vietnamese strains of HP-PRRSV cause different pathogenic outcomes in United States high health swine. *Virology*. 2013 Nov; 446(1-2):238-50. doi: 10.1016/j.virol.2013.08.008. [Epub 2013 Sep 5]

Kitikoon P, Gauger PC, Anderson TK, Culhane MR, **Swenson SL**, Loving CL, Perez DR, Vincent AL. Swine influenza virus vaccine serologic cross-reactivity to contemporary US swine H3N2 and efficacy in pigs infected with an H3N2 similar to 2011-2012 H3N2v. *Influenza Other Respir Viruses*. 2013 Dec 7. Suppl 4:32-41. doi: 10.1111/irv.12189.

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Stevenson GW, Hoang H, Schwartz KJ, Burrough ER, Sun D, Madson D, Cooper VL, Pillatzki A, Gauger P, **Schmitt BJ**, **Koster LG**, **Killian ML**, Yoon KJ. Emergence of porcine epidemic diarrhea virus in the United States: clinical signs, lesions, and viral genomic sequences. *J Vet Diagn Invest*. 2013 Sep; 25(5):649-54. doi:10.1177/1040638713501675. [Epub 2013 Aug 20]

Foreign Animal Diagnostic Disease

Bracht AJ, Armien AG, **Carrillo C**, **O'Hearn ES**, **Fabian AW**, **Moran KE**, Lu Z, Ariyakumer DS, Rasmussen JM, **Metwally SA**. Isolation and characterization of a Cervidpoxvirus from

a goitered gazelle (*Gazella subgutturosa*) from a zoologic park in Minnesota. *J Zoo Wildl Med*. 2013 Sep; 44(3):589-95.

Jaques RS, Millien M, Flanagan KJ, Shaw J, Morales P, Pinto J, Pyburn D, Gonzalez W, Ventura A, Lefrancoise T, Pradel J, **Swenson S, Jenkins-Moore M, Toms D, Erdman M, Cox L, Bracht AJ, Fabian A, Mohamed FM, Moran K, O'Hearn E, Carrillo C, Mayr G, White W, Metwally S, McIntosh M, Deng M**. A field and lab investigation of viral disease of swine in the Republic of Haiti. *Journal of Swine Health Prod*. 2013; 21 (3) 130-138.

Batonick M, Loeffen W, Metwally SA, Mayr GA. Identification and characterization of mimotopes of CSF virus E2 glycoprotein using specific anti-E2 monoclonal antibodies. *Virus Res*. 2013 Jul; 175(1):12-9. doi: 10.1016/j.viruses.2013.03.016. [Epub ahead of print]

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Bacteriology

Beard LA, Pelzel AM, Rush BR, Wright AM, Galgut BI, **Hennager SG**, King AO, Traub-Dargatz JL. Babesia equi-induced anemia in a Quarter Horse and subsequent regulatory response. *J Am Vet Med Assoc*. 2013 Apr 1; 242(7):992-6. doi:10.2460/javma.242.7.992.

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Palmer MV, **Thacker TC**, Waters WR, **Robbe-Austerman S**, Aldwell FE. Persistence of Mycobacterium bovis bacillus Calmette-Guérin (BCG) Danish In White-tailed Deer

(*Odocoileus virginianus*) vaccinated with a Lipid-Formulated Oral Vaccine. *Transbound Emerg Dis*. 2012 Nov 22. doi: 10.1111/tbed.12032. [Epub ahead of print]

Robbe-Austerman S, Bravo DM, Harris B. Comparison of the MGIT 960, BACTEC 460 TB and solid media for isolation of *Mycobacterium bovis* in United States veterinary specimens. *BMC Vet Res*. Apr 11; 9(1):74. doi:10.1186/1746-6148-9-74 [Epub ahead of print]

Walter WD, Fischer JW, Anderson CW, Marks DR, Deliberto T, **Robbe-Austerman S**, Vercauteren KC. Surveillance and movements of Virginia opossum (*Didelphis virginiana*) in the bovine tuberculosis region of Michigan. *Epidemiol Infect*. 2013 Mar 26:1-11. doi:10.1017/S0950268813000629. [Epub ahead of print]

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Nol P, **Rhyan JC, Robbe-Austerman S, McCollum MP**, Rigg TD, Saklou NT, Salman MD. The Potential for Transmission of BCG from Orally Vaccinated White-Tailed Deer (*Odocoileus virginianus*) to Cattle (*Bos taurus*) through a Contaminated Environment: Experimental Findings. *PLoS One*. 2013. 8(4):e60257. doi:10.1371/journal.pone.0060257. [Epub 2013 Apr 2]

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Awinda PO, Mealey RH, Williams LB, Conrad PA, Packham AE, Reif KE, **Grause JF**, Pelzel-McCluskey AM, Chung C, Bastos RG, Kappmeyer LS, Howe DK, Ness SL, Knowles DP, Ueti MW. Serum antibodies from a subset of horses positive for *Babesia caballi* by competitive ELISA demonstrate a protein recognition pattern not consistent with

infection. *Clin Vaccine Immunol*. 2013 Sep. doi: 10.1128/CVI.00479-13. [Epub ahead of print]

Thiele TL, **Stuber TP**, **Hauer PJ**. Detection of *Clostridium sordellii* strains expressing hemorrhagic toxin (TcSH) and implications for diagnostics and regulation of veterinary vaccines. *Vaccine*. 2013 Oct 17; 31(44):5082-7. doi: 10.1016/j.vaccine.2013.08.065. [Epub 2013 Sep 7]

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Pathobiology

Schwabenlander MD, Culhane MR, **Hall MS**, Goyal SM, Anderson PL, Carstensen M, Wells SJ, Slade WB, Armien AG. A case of chronic wasting disease in a captive red deer (*Cervus elaphus*). *J VET Diagn Invest*. Sept 2013; 25(5):573-576. 10.1177/1040638713499914. [Epub 2013 August 15]

Director's Office

Joshi D, **Harris NB**, Waters R, **Thacker T**, Mathema B, Krieswirth B, Sreevatsan S. Single nucleotide polymorphisms in *Mycobacterium bovis* genome resolve phylogenetic relationships. *J Clin Microbiol*. 2012 Dec; 50(12):3853-61. doi: 10.1128/JCM.01499-12. [Epub 2012 Sep 19]