

BIOGRAPHICAL SKETCH

NAME	POSITION TITLE
Scott A. Dee	Director of Applied Research

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Minnesota, St. Paul, MN	M.S.	1985	Veterinary Microbiology
University of Minnesota, St. Paul, MN.	D.V.M.	1987	Veterinary Medicine
University of Minnesota, St. Paul, MN	Ph.D	1996	Veterinary Medicine
Diplomate, American College of Veterinary Microbiologists		1993	Bacteriology and Mycology

PROFESSIONAL EXPERIENCE

July 2011-present: Director of Applied Research, Pipestone Veterinary Services, Pipestone, MN
 1999-June 2011: Professor, Department of Veterinary Population Medicine University of Minnesota College of Veterinary Medicine
 1987-1998: Swine practitioner, Swine Health Center, Morris, MN
 1987-present: Swine consultant, 33 US states and 27 countries
 Past president: American Association of Swine Veterinarians
 District 9 Director: American Association of Swine Veterinarians
 Council on Biologics and Therapeutic Agents (Microbiology seat): American Veterinary Medical Association

SAMPLE PEER-REVIEWED PUBLICATIONS (172 total)

Dee N, Havas K, Shah A, Singrey A, Spronk G, Niederwerder M, Nelson E, **Dee SA**. Evaluating the effect of temperature on viral survival in plant-based feed during storage. *Transboundary and Emerging Diseases (Accepted for publication)*.
Dee S and Spronk G (guest editors). Feed: A new pathway for the domestic and transboundary spread of viral pathogens of veterinary significance. *Transboundary and Emerging Diseases*, Special Issue. Volume 69, Number 1, pp.1-188, Jan 2022.
 Odland C, Edler R, Noyes N, **Dee S**, Nerem J, Davies P. Evaluation of the impact of antimicrobial use protocols in PRRS virus infected swine on phenotypic antimicrobial resistance patterns. *Applied Environmental Microbiology (Accepted for publication)*.
 Stenfeldt C, Bertram M, Crockett H, Hartwig E, Smoglia G, Niederwerder M, Diel D, **Dee S**, Artz J. The risk and mitigation of foot and mouth disease virus infection of pigs through consumption of contaminated feed. *Transbound Emerg Dis*. doi:10.1111/tbed.14230.
Dee S, Shah A, Jones C, Singrey A, Hanson D, Edler R, Spronk G, Niederwerder M, Nelson E. Evidence of viral survival in representative volumes of feed and feed ingredients during long-distance commercial transport across the continental United States. *Transbound Emerg Dis* DOI:101111/tbed.14057.
 Patterson G, Niederwerder MC, Spronk G and **Dee SA**. Quantification of soy-based feed ingredient entry from ASFV-positive countries to the United States by ocean freight shipping and associated seaports. *Transbound Emerg Dis* doi:10.1111/tbed.13881.
Dee S, Niederwerder MC, Edler Roy, Hanson D, Singrey A, Cochrane R, Spronk G, Nelson E. An evaluation of additives for mitigating the risk of virus-contaminated feed using an ice block challenge model. *Transbound Emerg Dis* doi:10.1111/tbed.13749.
 Niederwerder MC, **Dee S**, Stoian AMM, Constance LA, Olcha M, Petrovan V, Patterson G, Cino G, Rowland RRR. Mitigating the risk of African swine fever virus in feed with antiviral chemical additives. *Transbound Emerg Dis* 2020. doi:10.1111/tbed.13699.
Dee SA, Niederwerder MC, Patterson G, Cochrane R, Jones C, Diel D, Brockhoff E, Nelson E, Spronk GD, Sundberg P. The risk of viral transmission in feed: What do we know, what do we do? *Tranbound Emerg Dis*, 2020. doi: 10.1111/tbed.13606.
 Stoian A, Petrovan V, Laconst A, Molch A, **Dee S**, Diel D, Sheehan M, Rowland R, Patterson G, Niederwerder M. Stability of classical swine fever virus and pseudorabies virus in animal feed ingredients exposed to transpacific shipping conditions. *Transbound Emerg Dis* 2020.doi: 10.1111/tbed.13498.
 Stoian AMM, Zimmerman J, Ji J, Hefley TJ, **Dee S**, Diel DG, Rowland RRR, Niederwerder MC. Half-Life of African Swine Fever Virus in Shipped Feed. *Emerg Infect Dis*. 2019 Dec 17;25(12). doi: 10.3201/eid2512.191002.
 Patterson G, Niederwerder M, **Dee SA**. Risks to animal health associated with imported feed ingredients. *JAVMA* 2019,254,7: 1-2.
Dee SA, Guzman JE, Hanson Dan, Garbes N, Morrison R, Amodi D, Galina Pantoja L. A randomized controlled trial to evaluate performance of pigs raised in antibiotic-free or conventional production systems following challenge with porcine reproductive and respiratory syndrome virus. *PLOS ONE* 2018, 13(12): e0208430. <https://doi.org/10.1371/journal.pone.0208430>
Dee SA, Bauermann F, Niederwerder MC et al. Survival of viral pathogens in animal feed ingredients under transboundary shipping models. *PLOS ONE* 2018, 13(3): e0194509.
 Joshi L, Mohr K, Clement T, Hain K, Myers B, Yaros J, Nelson E, Christopher-Hennings J, Gava D, Schaefer R, Caron L, **Dee S**, and Diel D. Detection of the Emerging Senecavirus A in Pigs, Mice and Houseflies. *J Clin Microbiol* 2016, *JCM*.03390-15.

- Dee SA**, Neill C, Singrey A, Clement T, Cochrane R, Jones C, Patterson G, Spronk G, Christopher-Hennings, J and Nelson E. Modeling the transboundary risk of feed ingredients contaminated with porcine epidemic diarrhea virus. *BMC Vet Res* 2016, 12:51.
- Dee SA**, Neill C, Clement T, Singrey A, Christopher-Hennings J and Nelson E. An evaluation of PEDV survival in individual feed ingredients in the presence or absence of a liquid antimicrobial. *Porcine Health Management* 2015, 1:9.
- Brito B, **Dee S**, Wayne S, Alvarez J, Perez A. Genetic diversity of PRRS virus collected from air samples in 4 different regions of concentrated swine production during a high incidence season. *Viruses* 2014,6,4424-4436.
- Dee S**, Clement T, Schelkopf A, Nerem J, Knudsen D, Hennings J and Nelson E. An evaluation of contaminated complete feed as a vehicle for porcine epidemic diarrhea virus infection of naïve pigs following consumption via natural feeding behavior: Proof of concept. *BMC Vet Res* 2014,10:176.
- Dee SA**, Cano JP, Spronk GD, Reicks D, Ruen P, Pitkin A and Polson D. Evaluation of the long-term effect of air filtration on the occurrence of new PRRSV infections in large breeding herds in swine-dense regions. *Viruses*. 2012; 4:654-662.
- Dee SA**, Otake S and Deen J. Use of a production region model to assess the efficacy of various air filtration systems for preventing the airborne transmission of porcine reproductive and respiratory syndrome virus and *Mycoplasma hyopneumoniae*. Results of a 2-year study *Virus Res* doi:10.1016/j.virusres.2010.07.022
- Dee SA**, Otake S, Oliviera S and Deen J. Evidence of long distance airborne spread of porcine reproductive and respiratory syndrome virus and *Mycoplasma hyopneumoniae*. *Vet Res* 2009;40(4)39.
- Otake S, **Dee S**, Corzo C, Oliveira S and Deen J. Long distance airborne transport of viable PRRSV and *Mycoplasma hyopneumoniae* from a swine population infected with multiple viral variants. *Vet Microbiol* 2010; 145: 198-208.
- Pitkin AN, Deen J and **Dee SA**. Use of a production region model to assess the airborne spread of porcine reproductive and respiratory syndrome virus. *Vet Microbiol* doi:10.1016/j.vetmic.2008.10.1013.
- Cho JG, **Dee SA**, Deen J, Murtaugh MP, and Joo HS. An evaluation of isolate pathogenicity on the transmission of porcine reproductive and respiratory syndrome virus by aerosols. *Can J Vet Res* 2007;71:23-27.
- Dee SA** and Molitor TW. Elimination of PRRS virus using a test and removal process. *Vet Rec*. 1998. 143:474-476.
- Dee SA** and Joo HS. Clinical investigation of recurrent reproductive failure with PRRS virus in a swineherd. *JAVMA*. 1994. 204:1017-1018.
- Dee SA** and Joo HS. Prevention of the spread of PRRS virus in endemically infected pig populations by nursery depopulation. *Vet Rec*. 1994. 135:6-9.
- Dee SA**, Joo HS, Henry S, Tokach L, Park BK, Molitor TW, and Pijoan C. Detecting subpopulations after PRRS virus infection in large breeding herds using multiple serologic tests. *Swine Health and Production*. 1996. 4:181-184.

COMPETITIVE GRANTS & INDUSTRY FUNDING AWARDED: \$12,051,300

AWARDS AND INVITED LECTURESHIPS

- 1996 American Association Swine Practitioner of the Year
 1996 Allen D. Leman Science in Practice Award
 1996 University of Minnesota College of Veterinary Medicine Distinguished Alumni Award
 1998 AVMA Practitioner Research Award
 1999-2000 University of Minnesota College of Veterinary Medicine Teaching Incentive Awards
 2005: University of Minnesota College of Veterinary Medicine Mark of Excellence Award
 2005: AASV Howard Dunne Memorial Lecture
 2007: University of Minnesota College of Veterinary Medicine Pfizer Award for Research Excellence
 2007: Carlos Pijoan lectureship
 2010: James Hanson lectureship
 2012 : Gustavus Adolphus College Distinguished Alumni Certificate in Veterinary Medicine
 2112 : Gustavus Adolphus Sesquicentennial award
 2015: Keynote lecture on PEDV, 7th International Symposium on Emerging & Re-Emerging Swine Diseases
 2016: AASV Howard Dunne Memorial Award
 2018: Recipient of a Warrior Chip from the FBI Weapons of Mass Destruction Directorate.
 2019: Master of the Pork Industry
 2022: Guest Editor for a Special Issue in Transboundary and Emerging Diseases entitled “Feed: A new pathway for the domestic and transboundary spread of viral pathogens of veterinary significance”.
 2022: Distinguished Service to the US Pork Industry award

GRADUATE STUDENTS ADVISED

Satoshi Otake (PhD)	Seth Baker (MS)	Jennifer Schuerr (MS)	Maria Pieters (PhD)
Carlos Trincado (MS)	Laura Batista (PhD)	Zhenguo Xiao (PhD)	Agnes Szaszaek (MS)
Jenny Cho (MS)	Jean Paul Cano (PhD)	Alvaro Ruiz (PhD)	Meggan Bandrick (PhD)
Eduardo Fano (PhD)	Andrea Pitkin (MS)	Lorenzo Cuatero (MS)	Erin Little (MS)
Adam Schelkopf (MS)	Daniel Linhares (PhD)	Enrique Mondaca (PhD)	Carissa Odland (MS)