

Personal information

First name(s) / Surname **Annette M O'Connor**
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E-mail oconnor@iastate.edu
Citizenship United States of America/ Australia
Date of birth 5 July 1968
Gender Female

Work experience

Dates	<u>2011-Current</u>
Occupation or position held	Full Professor (with tenure)
Main activities and responsibilities	Food safety and infectious disease primary research, research synthesis and teaching graduate and professional students epidemiology
Name and address of employer	Iowa State University College of Veterinary Medicine, Department of Veterinary Diagnostic and Production Animal Medicine, Ames, Iowa 50011, United States of America
Type of business or sector	Full Professor (Adjunct) University of Iowa <u>Academic</u>
Dates	<u>2007 - 2011</u>
Occupation or position held	Associate Professor (with tenure)
Main activities and responsibilities	Food safety and infectious disease primary research, research synthesis and teaching graduate and professional students epidemiology.
Name and address of employer	Iowa State University College of Veterinary Medicine, Department of Veterinary Diagnostic and Production Animal Medicine, Ames, Iowa 50011, United States of America
Type of business or sector	Academic
Dates	<u>2004-2007</u>
Occupation or position held	Assistant Professor
Main activities and responsibilities	Food safety and infectious disease primary research, research synthesis and teaching graduate and professional students epidemiology.

Name and address of employer	Iowa State University College of Veterinary Medicine, Department of Veterinary Diagnostic and Production Animal Medicine, Ames, Iowa 50011, United States of America
Type of business or sector	Academic
Dates	<u>2003-2004 (on-leave from ISU)</u>
Occupation or position held	Scientist
Main activities and responsibilities	Epidemiology and Modelling Section, Office of the Chief Veterinary Officer
Name and address of employer	Australian Government Department of Agriculture, Fisheries and Forestry, Barton, Australian Capital Territory 2601, Australia
Type of business or sector	Food safety and infectious disease primary research,
Dates	<u>2000-2003</u>
Occupation or position held	Assistant Professor
Main activities and responsibilities	Food safety and infectious disease primary research, research synthesis and teaching graduate and professional students epidemiology.
Name and address of employer	Iowa State University College of Veterinary Medicine, Department of Veterinary Diagnostic and Production Animal Medicine, Ames, Iowa 50011, United States of America
Type of business or sector	Academic
Education and training	
Dates	<u>1993</u>
Title of qualification awarded	Bachelor of Veterinary Science (DVM equivalent)
Principal subjects / occupational skills covered	Veterinary medicine
Name and type of organisation providing education and training	University of Sydney, New South Wales 2006, Australia
Level in national or international classification	Bachelor degree
Dates	<u>1997</u>
Title of qualification awarded	Master of Veterinary Science
Principal subjects / occupational skills covered	Ruminant nutrition and endocrinology
Name and type of organisation providing education and training	University of Queensland, Brisbane QLD 4072, Australia
Level in national or international classification	Masters degree
Dates	<u>2000</u>
Title of qualification awarded	Doctor of Veterinary Science (PhD equivalent)
Principal subjects / occupational skills covered	Epidemiology and Ruminant Health Management
Name and type of organisation providing education and training	University of Guelph, 50 Stone Road East, N1G 2W1 Guelph, Ontario, Canada

Level in national or international classification	Doctorate degree																														
Dates	<u>2003</u>																														
Title of qualification awarded	Member of Australian College of Veterinary Scientist (Epidemiology Chapter)																														
Principal subjects / occupational skills covered	Epidemiology																														
Name and type of organisation providing education and training	Australian College of Veterinary Scientists																														
Level in national or international classification	Membership																														
Dates	2009																														
Title of qualification awarded	Fellow of Australian College of Veterinary Scientist (Epidemiology Chapter)																														
Principal subjects/ occupational skills covered	Epidemiology																														
Name and type of organisation providing education and training	Australian College of Veterinary Scientists																														
Level in national or international classification	Fellowship																														
Self-assessment																															
<i>European level (*)</i>																															
English	<table><tr><th colspan="4">Understanding</th><th colspan="4">Speaking</th><th colspan="2">Writing</th></tr><tr><th colspan="2">Listening</th><th colspan="2">Reading</th><th colspan="2">Spoken interaction</th><th colspan="4">Spoken production</th></tr><tr><td>C2</td><td>Proficient user</td><td>C2</td><td>Proficient user</td><td>C2</td><td>Proficient user</td><td>C2</td><td>Proficient user</td><td>C2</td><td>Proficient user</td></tr></table>	Understanding				Speaking				Writing		Listening		Reading		Spoken interaction		Spoken production				C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user
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	(*) <u>Common European Framework of Reference (CEF) level</u>																														
Social skills and competences	Excellent ability to adapt to multicultural environments which have been gained though travel, schooling in different countries and working with many international students. Work extremely well in collaborative relationships.																														
Organisational skills and competences	Leadership experience: currently a member of 6 committees/councils Organisational experience: conferences & workshops (>10) and > 20 field projects																														
Technical skills and competences	Skills required for field research																														
Computer skills and competences	Office programs - proficient user Statistical software: SAS, R, Sigma-plot - experienced user																														
Artistic skills and competences	None																														
Driving licence(s)	<u>Class C, knowledge, vision, driving</u>																														

PUBLICATIONS

PEER REVIEWED PUBLICATIONS

1. Weese, J.S., Kenney, D.G., O'Connor, A., 2000. Secondary lactose intolerance in a neonatal goat. J. Am. Vet. Med. Assoc. 217, 372-375.

2. **O'Connor, A.M.**, Poppe, C., McEwen, S.A., 2002a. Changes in the prevalence of resistant *Escherichia coli* in cattle receiving subcutaneously injectable oxytetracycline in addition to in-feed chlortetracycline compared with cattle receiving only in-feed chlortetracycline. *Can. J. Vet. Res.* 66, 145-150.
3. **O'Connor, A.M.**, Ziebell, K.A., Poppe, C., McEwen, S.A., 2004. Verotoxins in commensal *Escherichia coli* in cattle: the effect of injectable subcutaneous oxytetracycline in addition to in-feed chlortetracycline on prevalence. *Epidemiol. Infect.* 132, 77-85.
4. Schmidt, P.L., **O'Connor, A.M.**, McKean, J.D., Hurd, H.S., 2004. The association between cleaning and disinfection of lairage pens and the prevalence of *Salmonella enterica* in swine at harvest. *J. Food Prot.* 67, 1384-1388.
5. **O'Connor, A.M.**, Sorden, S.D., Apley, M.D., 2005b. Association between the existence of calves persistently infected with bovine viral diarrhoea virus and commingling on pen morbidity in feedlot cattle. *Am. J. Vet. Res.* 66, 2130-2134.
6. **O'Connor, A.M.**, Gailey, J., McKean, J.D., Hurd, H.S., 2006a. Quantity and distribution of *Salmonella* recovered from three swine lairage pens. *J. Food Prot.* 69, 1717-1719.
7. **O'Connor, A.M.**, McKean, J.D., Beary, J.H., Brockus, S.L., 2006b. Prevalence of exposure to *Salmonella* spp in finishing swine marketed in Iowa. *Am. J. Vet. Res.* 67, 829-833.
8. **O'Connor, A.M.**, Wellman, N.G., Evans, R.B., Roth, D.R., 2006c. A review of randomized clinical trials reporting antibiotic treatment of infectious bovine keratoconjunctivitis in cattle. *Anim. Health Res. Rev.* 7, 119-127.
9. Sargeant, J.M., Torrence, M.E., Rajic, A., **O'Connor, A.M.**, Williams, J., 2006. Methodological quality assessment of review articles evaluating interventions to improve microbial food safety. *Foodborne Pathog. Dis.* 3, 447-456.
10. Denagamage, T.N., **O'Connor, A.M.**, Sargeant, J.M., Rajic, A., McKean, J.D., 2007. Efficacy of vaccination to reduce *Salmonella* prevalence in live and slaughtered swine: A systematic review of literature from 1979 to 2007. *Foodborne Pathog. Dis.* 4, 539-549.
11. Evans, R., Lukas, K., **O'Connor, A.**, Reinertson, E., 2007. Are toe grabs a risk factor for catastrophic musculoskeletal injury in racehorses? *Equine Veterinary Education* 19, 155-156.
12. Evans, R.B., **O'Connor, A.**, 2007. Statistics and evidence-based veterinary medicine: answers to 21 common statistical questions that arise from reading scientific manuscripts. *Veterinary Clinics of North America, Small Animal Practice* 37, 477-486.
13. **O'Connor, A.**, Evans, R.B., 2007. Critically appraising studies reporting assessing diagnostic tests. *Veterinary Clinics of North America, Small Animal Practice* 37, 487-497.
14. Ramirez, A., Clothier, K.A., **O'Connor, A.M.**, Roth, J.A., 2007. Evaluating a novel ELISA for BVDV to identify circulating BVDV in cattle vaccinated with killed BVDV vaccines.
15. Wellman, N.G., **O'Connor, A.M.**, 2007. Meta-analysis of treatment of cattle with bovine respiratory disease with tulathromycin. *J. Vet. Pharmacol. Ther.* 30, 234-241.
16. Burns, M.J., **O'Connor, A.M.**, 2008. Assessment of methodological quality and sources of variation in the magnitude of vaccine efficacy: a systematic review of studies from 1960 to 2005 reporting immunization with *Moraxella bovis* vaccines in young cattle. *Vaccine* 26, 144-152.
17. **O'Connor, A.M.**, Denagamage, T., Sargeant, J.M., Rajic, A., McKean, J., 2008. Feeding management practices and feed characteristics associated with *Salmonella* prevalence in live and slaughtered market-weight finisher swine: a systematic review and summation of evidence from 1950 to 2005. *Prev. Vet. Med.* 87, 213-228.

18. Reed, M.C., **O'Connor, A.M.**, Yoon, K.J., Cooper, V.L., 2008. Assessing the effect of sample handling on the performance of a commercial bovine viral diarrhea virus antigen-capture enzyme-linked immunosorbent assay. *J. Vet. Diagn. Invest.* 20, 124-126.
19. Funk, L., **O'Connor, A.M.**, Maroney, M., Engelken, T., Cooper, V.L., Kinyon, J., Plummer, P., 2009. A randomized and blinded field trial to assess the efficacy of an autogenous vaccine to prevent naturally occurring infectious bovine keratoconjunctivitis (IBK) in beef calves. *Vaccine* 27, 4585-4590.
20. McKean, J.D., **O'Connor, A.M.**, 2009. Describing the Salmonella classification levels for low-volume production systems utilizing abattoir-based samples and classification stability over time. *Journal of Swine Health and Production* 17, 198-203.
21. Millman, S.T., Johnson, A.K., **O'Connor, A.M.**, Zanella, A.J., 2009a. Animal Welfare and Epidemiology Across Species, Across Disciplines, and Across Borders. *Journal of Applied Animal Welfare Science* 12, 83-87.
22. Millman, S.T., Johnson, A.K., **O'Connor, A.M.**, Zanella, A.J., 2009b. Animal welfare and epidemiology-across species, across disciplines, and across borders. *Journal of applied animal welfare science : JAAWS* 12, 83-87.
23. **O'Connor, A.M.**, Sargeant, J.M., Gardner, I.A., Dickson, J.S., Torrence, M.E., 2009. The REFLECT Statement: Methods and Processes of Creating Reporting Guidelines for Randomized Controlled Trials for Livestock and Food Safety. *J. Vet. Intern. Med.*
24. Brace, S., Taylor, D., **O'Connor, A.M.**, 2010. The quality of reporting and publication status of vaccines trials presented at veterinary conferences from 1988 to 2003. *Vaccine* 28, 5306-5314.
25. Coetzee, J.F., Schmidt, P.L., **O'Connor, A.M.**, Apley, M.D., 2010. Seroprevalence of Anaplasma marginale in 2 Iowa feedlots and its association with morbidity, mortality, production parameters, and carcass traits. *Can. Vet. J.* 51, 862-868.
26. Guerin, M.T., Sir, C., Sargeant, J.M., Waddell, L., **O'Connor, A.M.**, Wills, R.W., Bailey, R.H., Byrd, J.A., 2010. The change in prevalence of Campylobacter on chicken carcasses during processing: a systematic review. *Poult. Sci.* 89, 1070-1084.
27. **O'Connor, A.M.**, Auvermann, B., Bickett-Weddle, D., Kirkhorn, S., Sargeant, J.M., Ramirez, A., Von Essen, S.G., 2010a. The Association between Proximity to Animal Feeding Operations and Community Health: A Systematic Review. *PLoS One* 5.
28. **O'Connor, A.M.**, Sargeant, J.M., Gardner, I.A., Dickson, J.S., Torrence, M.E., Dewey, C.E., Dohoo, I.R., Evans, R.B., Gray, J.T., Greiner, M., Keefe, G., Lefebvre, S.L., Morley, P.S., Ramirez, A., Sisco, W., Smith, D.R., Snedeker, K., Sofos, J., Ward, M.P., Wills, R., 2010b. The REFLECT Statement: Methods and Processes of Creating Reporting Guidelines for Randomized Controlled Trials for Livestock and Food Safety by Modifying the CONSORT Statement. *Zoonoses Public Health*.
29. **O'Connor, A.M.**, Wellman, N.G., Rice, M., Funk, L., 2010c. Characteristics of clinical trials assessing antimicrobial treatment of bovine respiratory disease, 1970-2005. *J. Am. Vet. Med. Assoc.* 237, 701-705.
30. Wang, B., Wesley, I.V., McKean, J.D., **O'Connor, A.M.**, 2010a. Sub-iliac lymph nodes at slaughter lack ability to predict Salmonella enterica prevalence for swine farms. *Foodborne Pathog. Dis.* 7, 795-800.
31. Wang, T., Hennessy, D.A., **O'Connor, A.M.**, 2010b. Where are the veterinarian shortage areas anyway? Working Paper - Center for Agricultural and Rural Development, Iowa State University, 27 pp.

32. Irwin, C.K., Yoon, K.J., Wang, C., Hoff, S.J., Zimmerman, J.J., Denagamage, T., **O'Connor, A.M.**, 2011. Using the systematic review methodology to evaluate factors that influence the persistence of influenza virus in environmental matrices. *Appl. Environ. Microbiol.* 77, 1049-1060.
33. **O'Connor, A.M.**, Brace, S., Gould, S., Dewell, R., Engelken, T., 2011a. A randomized clinical trial evaluating a farm-of-origin autogenous *Moraxella bovis* vaccine to control infectious bovine keratoconjunctivitis (pinkeye) in beef cattle. *J. Vet. Intern. Med.* 25, 1447-1453.
34. **O'Connor, A.M.**, Gould, S.A., Coetzee, J.F., Kreuder, A.J., Plummer, P.J., 2011b. What is the evidence? Intra-abdominal administration of antimicrobial drugs to prevent peritonitis or wound infection in cattle after abdominal surgery. *J. Am. Vet. Med. Assoc.* 239, 314-316.
35. Sargeant, J.M., **O'Connor, A.M.**, Renter, D.G., Kelton, D.F., Snedeker, K., Wisener, L.V., Leonard, E.K., Guthrie, A.D., Faires, M., 2011. Reporting of methodological features in observational studies of pre-harvest food safety. *Prev. Vet. Med.* 98, 88-98.
36. Shen, H.G., Gould, S., Kinyon, J., Opriessnig, T., **O'Connor, A.M.**, 2011. Development and evaluation of a multiplex real-time PCR assay for the detection and differentiation of *Moraxella bovis*, *Moraxella bovoculi* and *Moraxella ovis* in pure culture isolates and lacrimal swabs collected from conventionally raised cattle. *J. Appl. Microbiol.* 111, 1037-1043.
37. Uthe, J.J., Bearson, S.M.D., Qu, L., Dekkers, J.C., Nettleton, D., Torres, Y.R., **O'Connor, A.M.**, McKean, J.D., Tuggle, C.K., 2011a. Integrating comparative expression profiling data and association of SNPs with *Salmonella* shedding for improved food safety and porcine disease resistance. *Anim. Genet.* 42, 521-534.
38. Uthe, J.J., Qu, L., Couture, O., Bearson, S.M.D., **O'Connor, A.M.**, McKean, J.D., Torres, Y.R., Dekkers, J.C.M., Nettleton, D., Tuggle, C.K., 2011b. Use of bioinformatic SNP predictions in differentially expressed genes to find SNPs associated with *Salmonella* colonization in swine. *J. Anim. Breed. Genet.* 128, 354-365.
39. Wang, B., Wang, C., McKean, J.D., Logue, C.M., Gebreyes, W.A., Tivendale, K.A., **O'Connor, A.M.**, 2011. *Salmonella enterica* in Swine Production: Assessing the Association between Amplified Fragment Length Polymorphism and Epidemiological Units of Concern. *Appl. Environ. Microbiol.* 77, 8080-8087.
40. Coetzee, J.F., Edwards, L.N., Mosher, R.A., Bello, N.M., **O'Connor, A.M.**, Wang, B., Kukanich, B., Blasi, D.A., 2012. Effect of oral meloxicam on health and performance of beef steers relative to bulls castrated on arrival at the feedlot. *J. Anim. Sci.* 90, 1026-1039.
41. Esch, K.J., Pontes, N.N., Arruda, P., **O'Connor, A.**, Morais, L., Jeronimo, S.M.B., Petersen, C.A., 2012. Preventing zoonotic canine leishmaniasis in northeastern Brazil: pet attachment and adoption of community Leishmania prevention. *Am. J. Trop. Med. Hyg.* 87, 822-831.
42. Holtkamp, D.J., Lin, H., Wang, C., **O'Connor, A.M.**, 2012. Identifying questions in the American Association of Swine Veterinarian's PRRS risk assessment survey that are important for retrospectively classifying swine herds according to whether they reported clinical PRRS outbreaks in the previous 3 years. *Prev. Vet. Med.* 106, 42-52.
43. **O'Connor, A.M.**, Shen, H.G., Wang, C., Opriessnig, T., 2012a. Descriptive epidemiology of *Moraxella bovis*, *Moraxella bovoculi* and *Moraxella ovis* in beef calves with naturally occurring infectious bovine keratoconjunctivitis (Pinkeye). *Vet. Microbiol.* 155, 374-380.
44. **O'Connor, A.M.**, Wang, B., Denagamage, T., McKean, J., 2012b. Process Mapping the Prevalence of *Salmonella* Contamination on Pork Carcass from Slaughter to Chilling: A Systematic Review Approach. *Foodborne Pathog. Dis.* 9, 386-395.
45. Wang, T., Hennessy, D.A., **O'Connor, A.M.**, 2012. Where are the food animal veterinarian shortage areas anyway? *Prev. Vet. Med.* 104, 198-206.

46. Adams, D.R., Stensland, W.R., Wang, C.H., **O'Connor, A.M.**, Trampel, D.W., Harmon, K.M., Strait, E.L., Frana, T.S., 2013. Detection of Salmonella enteritidis in pooled poultry environmental samples using a serotype-specific real-time-polymerase chain reaction assay. *Avian Dis.* 57, 22-28.
47. Baltzell, P., Newton, H., **O'Connor, A.M.**, 2013. A Critical Review and Meta-Analysis of the Efficacy of Whole-Cell Killed Tritrichomonas foetus Vaccines in Beef Cattle. *J. Vet. Intern. Med.* 2013 Jul-Aug; 27(4), 760-70.
48. Gould, S., Cooper, V.L., Reichardt, N., **O'Connor, A.M.**, 2013a. An evaluation of the prevalence of Bovine herpesvirus 1 abortions based on diagnostic submissions to five U.S.-based veterinary diagnostic laboratories. *J. Vet. Diagn. Invest.* 25, 243-247.
49. Gould, S., Dewell, R., Tofflemire, K., Whitley, R.D., Millman, S.T., Opriessnig, T., Rosenbusch, R., Trujillo, J., **O'Connor, A.M.**, 2013b. Randomized blinded challenge study to assess association between Moraxella bovoculi and Infectious Bovine Keratoconjunctivitis in dairy calves. *Vet. Microbiol.* 164, 108-115.
50. Newton, H.P., **O'Connor, A.M.**, 2013. The economics of pain management. *Vet. Clin. North Am. Food Anim. Pract.* 29, 229-250.
51. **O'Connor, A.M.**, 2013. Interpretation of odds and risk ratios. *J. Vet. Intern. Med.* 27, 600-603.
52. **O'Connor, A.M.**, Coetzee, J.F., da Silva, N., Wang, C., 2013. A mixed treatment comparison meta-analysis of antibiotic treatments for bovine respiratory disease. *Prev. Vet. Med.* 110, 77-87.
53. Funk, L.D., Reecy, J.M., Wang, C., Tait, R.G., Jr., **O'Connor, A.M.**, 2014. Associations between infectious bovine keratoconjunctivitis at weaning and ultrasonographically measured body composition traits in yearling cattle. *J. Am. Vet. Med. Assoc.* 244, 100-106.
54. Wisener L.V., Sargeant J.M., **O'Connor, A.M.**, Faires M.C., Glass-Kaasta S.K. A systematic assessment of the use and value of challenge trials in preharvest food safety research. *Zoonoses Public Health.* 2013 Nov 13 (Epub ahead of print).
55. Dewell, R. D. e. a. 2014. Evaluating approaches to measuring ocular pain in bovine calves with corneal scarification and IBK-associated corneal ulcerations. *J. Anim. Sci.* 92(3), 1161-72.
56. Tofflemire, K.L., Whitley, E.M., Dewell, R.D., Gould, S.A., Allbaugh, R.A., Ben-Shlomo, G., **O'Connor, A.M.**, Whitley, R.D., 2014. Corneal sensitivity in healthy bovine calves. *Vet. Ophthalmol.* 2014 March (Epub ahead of print)
57. Tofflemire, K.L., Whitley, E.M., Gould, S.A., Dewell, R.D., Allbaugh, R.A., Ben-Shlomo, G., **O'Connor, A.M.**, David Whitley, R., 2014. Schirmer tear test I and rebound tonometry findings in healthy calves. *Vet. Ophthalmol.* 2014 March (Epub ahead of print)
58. Wisener LV, Sargeant JM, **O'Connor AM**, Faires MC, Glass-Kaasta SK The Use of Direct-Fed Microbials to Reduce Shedding of Escherichia coli O157 in Beef Cattle: A Systematic Review and Meta-analysis. *Zoonoses Public Health.* 2014 Apr 3. doi: 10.1111/zph.12112. [Epub ahead of print]
59. Dzikamunhenga, R. S., Anthony, R., Coetzee, J. Gould, S., Johnson, A., Karriker, L., McKean, J, Millman, S.T., Niekamp, S.R., **O'Connor, A.M.** 2014 Pain management in the neonatal piglet during routine management procedures. Part 1: A systematic review of randomized and non-randomized intervention studies *Animal Health Research Reviews*, 15, 1, pp 14 – 38
60. **O'Connor, A.** Anthony, R., Bergamasco, L., Coetzee, J., Gould, S., Johnson, A. K., Karriker, L. A. , Marchant-Forde, J.N., Martineau, G.S., McKean, J., Millman, S. T. , Niekamp, S., Pajor, E.A., Rutherford, K., Sprague, M., Sutherland, M., von Borell, E. Dzikamunhenga, R. S. Pain management in the neonatal piglet during routine management procedures. Part 2: Grading the

61. O'Connor AM. Letter to the editor. *J Vet Intern Med.* 2014 Sep-Oct;28(5):1382-3. doi: 10.1111/jvim.12416. PubMed PMID: 25274436
62. O'Connor AM, Auvermann BW, Higgins JP, Kirychuk SP, Sargeant JM, Von Essen SG, Glanville JM, Wood H. The association between proximity to animal-feeding operations and community health: a protocol for updating a systematic review. *Syst Rev.* 2014 Sep 8;3:99. doi: 10.1186/2046-4053-3-99. PubMed PMID: 25200608; PubMed Central PMCID: PMC4160559.
63. Aiassa E, Higgins JP, Frampton GK, Greiner M, Afonso A, Amzal B, Deeks J, Dorne JL, Glanville J, Lövei GL, Nienstedt K, O'Connor AM, Pullin AS, Rajić A, Verloo D. Applicability and feasibility of systematic review for performing evidence-based risk assessment in food and feed safety. *Crit Rev Food Sci Nutr.* 2014 Sep 5:0. [Epub ahead of print] PubMed PMID: 25191830.
64. da Silva N, Carriquiry A, O'Neill K, Opriessnig T, O'Connor AM. Mixed treatment comparison meta-analysis of porcine circovirus type 2 (PCV2) vaccine used in piglets. *Prev Vet Med.* 2014 Dec 1;117(3-4):413-424. doi: 10.1016/j.prevetmed.2014.10.006. Epub 2014 Oct 31. Review. PubMed PMID: 25457512.
65. da Silva N, Carriquiry A, O'Neill K, Opriessnig T, O'Connor AM. Response to Allison et al. 'Meta-analysis of porcine circovirus type 2 (PCV2) vaccines'. *Prev Vet Med.* 2015 Apr 1;119(1-2):94-5. doi: 10.1016/j.prevetmed.2015.01.011. Epub 2015 Feb 7. PubMed PMID: 25681863.
66. O'Connor A, Fajt V. Evaluating treatment options for common bovine diseases using published data and clinical experience. *Vet Clin North Am Food Anim Pract.* 2015 Mar;31(1):1-15, v. doi: 10.1016/j.cvfa.2014.11.001. Review. PubMed PMID: 25705023.
67. Dean R, Royle N, Boulton C, Turner S, McKenzie B, O'Connor A, Budsberg S, Pion P, Lambert A, Jarvis S, Reynolds S. Veterinary All Trials Initiative. *Vet Rec.* 2015 Aug 1;177(5):131-2. doi: 10.1136/vr.h4107. PubMed PMID: 26231878.
68. Annette O'Connor, Jan Sargeant, Research synthesis in veterinary science: Narrative reviews, systematic reviews and meta-analysis, *The Veterinary Journal*, Available online 28 August 2015, ISSN 1090-0233, <http://dx.doi.org/10.1016/j.tvjl.2015.08.025>.
69. A. Di Salvo, E. Chiaradia, G. della Rocca, F. Mancini, R. Galarini, D. Giusepponi, V. De Monte, P. Cagnardi, M.L. Marenzoni, A. Bufalari, Intra-articular administration of lidocaine plus adrenaline in dogs: pharmacokinetic profile and evaluation of toxicity in vivo and in vitro, *The Veterinary Journal*, Available online 9 September 2015, ISSN 1090-0233, <http://dx.doi.org/10.1016/j.tvjl.2015.09.004>.
70. Woods BJ, Millman ST, da Silva NA, O'Connor, AM, *et al.* Pain and sickness behavior associated with corneal lesions in dairy calves [version 1; referees: awaiting peer review] *F1000Research* 2015, 4:546 (doi: 10.12688/f1000research.6649.1)

INVITED PEER REVIEWED PUBLICATIONS

71. **O'Connor, A.M.**, Reporting guidelines for primary research: Saying what you did. *Preventive Veterinary Medicine*, Volume 97, Issues 3-4, 1 December 2010, 144-149.
72. **O'Connor, A.M.**, 2012. Improving the quality of reviews in veterinary science: the author's responsibility. *Vet. J.* 192, 133-134.
73. **O'Connor, A.M.**, Sargeant, J.M., 2013. Meta-analyses including data from observational studies. *Prev. Vet. Med.* 113(3), 313-22.

74. Sargeant, J.M., **O'Connor, A.M.**, 2013. Issues of reporting in observational studies in veterinary medicine. *Prev. Vet. Med* 113(3), 323-30.
75. O'Connor AM, Sargeant JM, Wang C. Conducting systematic reviews of intervention questions III: Synthesizing data from intervention studies using meta-analysis. *Zoonoses Public Health*. 2014 Jun;61 Suppl 1:52-63. doi:10.1111/zph.12123. PubMed PMID: 24905996.
76. Sargeant JM, O'Connor AM. Conducting systematic reviews of intervention questions II: Relevance screening, data extraction, assessing risk of bias, presenting the results and interpreting the findings. *Zoonoses Public Health*. 2014 Jun;61 Suppl 1:39-51. doi: 10.1111/zph.12124. PubMed PMID: 24905995.
77. O'Connor AM, Anderson KM, Goodell CK, Sargeant JM. Conducting systematic reviews of intervention questions I: Writing the review protocol, formulating the question and searching the literature. *Zoonoses Public Health*. 2014 Jun;61 Suppl 1:28-38. doi: 10.1111/zph.12125. PubMed PMID: 24905994.
78. Sargeant JM, Kelton DF, O'Connor AM. Randomized controlled trials and challenge trials: design and criterion for validity. *Zoonoses Public Health*. 2014 Jun;61 Suppl 1:18-27. doi: 10.1111/zph.12126. PubMed PMID: 24905993.
79. Sargeant JM, Kelton DF, O'Connor AM. Study designs and systematic reviews of interventions: building evidence across study designs. *Zoonoses Public Health*. 2014 Jun;61 Suppl 1:10-7. doi: 10.1111/zph.12127. PubMed PMID: 24905992.
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81. Sargeant JM, O'Connor AM. 'One-stop shopping' for information on conducting systematic reviews and meta-analysis in animal agriculture and veterinary medicine. *Zoonoses Public Health*. 2014 Jun;61 Suppl 1:2. doi: 10.1111/zph.12130. PubMed PMID: 24905990.
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PUBLICALLY AVAILABLE REPORTS

European Food Safety Authority; Application of systematic review methodology to food and feed safety assessments to support decision making. *EFSA Journal* 2010; 8(6):1637. [90 pp.]. doi:10.2903/j.efsa.2010.1637. Available online: www.efsa.europa.eu Working Group on the Application of systematic review methodology to food and feed safety assessments to support decision making for the preparation of this EFSA scientific output: Jon Deeks, Geoff Frampton (Rapporteur), Julie Glanville, Matthias Greiner, Julian Higgins, Gabor Lövei, **Annette M O'Connor**, Andrew Pullin, Andrijana Rajić; and EFSA's staff members Elisa Aiassa, Billy Amzal, Didier Verloo, Ana Afonso, Jean-Lou Dorne, and Karin M. Nienstedt.

O'Connor, A.M., Lovei, G.L., Eales, J., Frampton, G.K., Glanville, J., Pullin, A.S., Sargeant, J. Implementation of systematic reviews in EFSA scientific outputs workflow. Supporting Publications 2012:EN-367 [36 pp.]. Available online: www.efsa.europa.eu/en/supporting/pub/367e.htm

O'Connor, A.M., Dzikamunhenga, R., Sargeant, J., Glanville, J., and Wood, H., 2013. Preparatory work for future development of four scientific opinions on monitoring procedures at slaughterhouses. EFSA supporting publication 2013:EN-467, 62 pp.

Supporting document for the following EFSA scientific opinions

EFSA AHAW Panel (EFSA Panel on Animal Health and Welfare), 2013. Scientific Opinion on monitoring procedures at slaughterhouses for poultry. EFSA Journal 2013;11(12):3521. [65 pp.] doi:10.2903/j.efsa.2013.3521.

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Sargeant, J., **O'Connor, A.M.**, Glanville, J., and Wood, H., 2013. Extensive literature search and provision of abstracts, where available, of studies, related to safety concerns for humans, animals and/or the environment of microorganisms recommended for the Qualified Presumption of Safety (QPS) 2012 list. EFSA supporting publication 2013

Preparatory work for the future development of scientific opinions on Animal Health. Call Reference: RC/EFSA/AHAW/2014/01¹ A. O'Connor¹, D. Wolfe², J. Sargeant², J. Glanville³ and H. Wood³ Iowa State University, Ames Iowa, USA, University of Guelph, Guelph, CA, York Health Economics Consortium, University of York, UK submitted

A review of the main welfare risks related to electrical stunning of small ruminants (ovine and caprine species) . Call Reference: RC/EFSA/AHAW/2014/02. A. O'Connor¹, R. S Dzikamunhenga¹, S. Totton², J. Sargeant², J. Glanville³ and H. Wood³ 1 Iowa State University, Ames Iowa, USA, 2 University of Guelph, Guelph, CA, 3 York Health Economics Consortium, University of York, UK

A review of the main welfare risks related to stunning of rabbits. Call Reference: RC/EFSA/AHAW/2014/03. A. O'Connor¹, R. S Dzikamunhenga¹, S. Totton², J. Sargeant², J. Glanville³ and H. Wood³ 1 Iowa State University, Ames Iowa, USA, 2 University of Guelph, Guelph, CA, 3 York Health Economics Consortium, University of York, UK

Systematic review of the effect of perch height on keel bone fractures/deformation/injuries, bone strength, foot lesions and perching behavior, Call Reference: RC/EFSA/AHAW/2014/04 A. O'Connor¹, R. S Dzikamunhenga¹, S. Totton², D. Wolfe², J. Sargeant², J. Glanville³ and H. Wood³ Iowa State University, Ames Iowa, USA, University of Guelph, Guelph, CA, York Health Economics Consortium, University of York, UK submitted

PRESENTATIONS

INVITED INTERNATIONAL

O'Connor, A.M., 1997. Insulin-like growth factors in beef cattle, a background. *In*: Proc. Australian Association of Cattle Veterinarians Annual Meeting, Toowoomba, Australia.

O'Connor, A.M., 2003. Epidemiological modeling as decision support tools in outbreaks. Australian Biometrics Conference, Australian National University, Canberra, Australia.

O'Connor, A.M., 2007. BVDV control: Control programs for BVDV. General Sessions Beef Session 1. American Association of Bovine Practitioners Annual meeting, Vancouver, British Columbia. Sept 20.

- O'Connor, A.M.**, 2007. Control programs for Pinkeye. General Sessions Beef Session 1. American Association of Bovine Practitioners Annual meeting. Vancouver, British Columbia. Sept 20.
- O'Connor, A.M.**, 2008. On-farm control of Salmonella in swine, What the research is telling us? Annual meeting of the Quebec Swine Veterinary Association (AVIA), Quebec, Canada. Oct 14.
- O'Connor, A.M.**, 2009. Epidemiological approaches to pre-harvest salmonella research in Iowa. Harbin Veterinary Research Institute, Harbin, China. Oct 20.
- O'Connor, A.M.**, 2010. Extracting data from primary research for systematic reviews. European Union Food Safety Workshop. Parma, Italy. Feb 23.
- O'Connor, A.M.** and Sargeant, J., 2010. The REFLECT statement – update for journal editors. International Association of Veterinary Editors meeting. Geneva, Switzerland. June 1.
- O'Connor, A.M.**, 2011. Translating Research to Practice: Evidence or Anecdote. Invited presentation University of Calgary College of Veterinary Science, Nov 23.
- O'Connor, A.M.**, 2012. Applying Evidence-Based Medicine Concepts in Bovine Practice: Examples from Bovine Respiratory Disease, Pinkeye and Parasite Management - Part 1 Western Canada Association of Bovine Practitioner Association, **Dr O.M. Radostits Seminars Series** Jan 20.
- O'Connor, A.M.**, 2012. Applying Evidence-Based Medicine Concepts in Bovine Practice: Examples from Bovine Respiratory Disease, Pinkeye and Parasite Management - Part 2 Western Canada Association of Bovine Practitioner Association, **Dr O.M. Radostits Seminars Series** Jan 20.
- O'Connor, A.M.**, 2014. Using mixed treatment comparisons meta-analysis in veterinary science. Australian College of Veterinary Scientists, Science Week Coolangatta, July.
- O'Connor, A.M.**, 2014. Systematic reviews- not the solution to every question. 1st International Evidence Based Veterinary Medicine Conference.
- O'Connor, A.M.**, 2014. Systematic reviews in agricultural health. 7th International Symposium: Safety & Health in Agricultural & Rural Populations: Global Perspectives
- O'Connor, A.M.**, 2014. Pain management in piglets during management procedures. A systematic review and GRADE process. 6th International Conference on the Assessment of Animal Welfare at Farm and Group Level
- O'Connor, A.M.**, 2014. Conducting systematic reviews in Animal Welfare. 3rd International conference systematic reviews and meta-analysis in animal studies.
- O'Connor, A.M.**, 2015. Comparing the average daily gain from wean to finish in swine associated with three PCVII vaccines: Circumvet® PCV, Ingelvac® CircoFLEX, Suvaxyn® PCV/ Foster PCV. Dublin, 2015.
- O'Connor, A.M.**, 2015. Using mixed treatment comparisons meta-analysis in veterinary science. World Buiatrics Conference.
- O'Connor, A.M.**, 2015. Turning research into practice for veterinarians and producers: mixed treatments comparison meta-analysis. 5th February 2015 University of Guelph, Department of Population medicine, Guelph Canada.

INVITED NATIONAL

- O'Connor, A.M.**, 2004. Evidence-based approach to pre-conditioning in cattle. Academy of Veterinary Consultants, Oklahoma. April 1.

- O'Connor, A.M.,** 2006. The Voluntary Iowa BVDV Screening Project. BVDV Control/Eradication Conference, Denver, CO. Jan 30-Feb 1.
- O'Connor, A.M.,** 2006 A systemic review of treatments for pinkeye in beef cattle. 79th Annual Western Veterinary Conference, Las Vegas, NV. Feb 17-18.
- O'Connor, A.M.,** 2006. Systematic reviews and food safety policy. Risk Assessment in Food Safety, North Dakota State University, Fargo, ND. May 4-5.
- O'Connor, A.M.,** 2006. Systematic reviews and food safety policy. Working Group for Pre-harvest Food Safety Pork Congress, Des Moines, IA. May 24-25.
- O'Connor, A.M.,** 2006. BVDV control and eradication. Interstate Veterinary Meeting, South Sioux City, NE. Oct 6.
- O'Connor, A.M.,** 2007. Synthesizing data from multiple studies designs. An example using interventions associated with Salmonella in swine. EU-US Safe food workshop, Shepherdsville, VA, Jan 7-9.
- O'Connor, A.M.,** 2008. Combining Information from Multiple Studies: Why, How and How Not, To Do It: Veterinary Examples, Pfizer Feedlot Consultants Meeting, Charleston, SC. June 19-22.
- O'Connor, A.M.,** 2008. Field Trial Design and Statistical Analysis, Boehringer Ingelheim Swine Academy, Ames, IA. Sept 9.
- O'Connor, A.M.,** 2008. CAFOS and community health: What is the research telling us? Allen D. Leman Swine Conference, Minneapolis, MN. Sept 23.
- O'Connor, A.M.,** 2008. CAFOS and community health: What is the research telling us? Joint Session of National Pork Board Environmental and Public Health Advisory Board, Chicago, IL. Dec 10.
- O'Connor, A.M.,** 2009. Field Trial Design and Statistical Analysis, Boehringer Ingelheim Technical Services meeting, Moravia, IA. Jan 8.
- O'Connor, A.M.,** 2008. What is the research telling us about controls of Salmonella in the plant? National Pork Board Food Safety Advisory Board Meeting, Chicago, IL. Dec 12.
- O'Connor, A.M.,** 2009. Reporting guidelines for primary research: Saying what you did (and doing what you said) Annual Association of Veterinary Epidemiology and Preventive Veterinary Medicine Schwabe Symposium honoring Dr Hollis Erb, Chicago, IL, Dec 7.
- O'Connor, A.M.,** 2010. Transitioning Associates to Full, Advancing to Full Professor, the ISU Experience. Big 12 Workshop on Faculty Diversity, Lawrence, KS. April 25-26.
- O'Connor, A.M.,** 2010. The REFLECT statement – update for Practitioners. Biannual Symposium of the Evidence Based Veterinary Medicine Association, Pomona, CA. June 14-15.
- O'Connor, A.M.,** 2010. Pinkeye control in beef cattle: an evidence based review. 119th Annual Meeting of South Dakota Veterinary Medical Association, Sioux Falls, SD. Aug 8-9.
- O'Connor, A.M.,** 2010. Clinical trial design and statistical methods for Clinical trials. Boehringer Ingelheim Swine Academy, St Paul, MN. Sept 22.
- O'Connor, A.M.,** 2010. A randomized controlled trial of *M. bovis* autogenous vaccines for control on IBK in Cattle. 119th Annual Meeting of South Dakota Veterinary Medical Association, Sioux Falls, SD. Aug 8-9.

O'Connor, A.M., 2010. Methods of designing and critically appraising interventions studies in livestock .119th Annual Meeting of South Dakota Veterinary Medical Association, Sioux Falls, SD. Aug 8-9.

O'Connor, A.M., 2010. Using reporting guidelines for randomized controlled trials to improve veterinary medicine and translational medicine. Pennsylvania State University College of Veterinary Medicine Lecture Series. Sept 22.

O'Connor, A.M., 2010. Using epidemiological principles of causation, necessary and sufficient causation, in practice, 2010 ISU Swine Disease Conference. Nov 4-5.

O'Connor, A.M., 2010. Using reporting guidelines for randomized controlled trials to improve veterinary clinical trials. University of Minnesota University College of Veterinary Medicine Lecture Series. Nov 10.

O'Connor, A.M., 2011. Using reporting guidelines for randomized controlled trials to improve veterinary clinical trials. Production Veterinarian Day, Pfizer Animal Health, IL. Jan 18.

O'Connor, A.M., 2011. Pinkeye control in beef cattle: an evidence based review. Annual Meeting of Nebraska Veterinary Medical Association, Omaha, NE. Jan 21-22.

O'Connor, A.M., 2011. Pinkeye control in beef cattle: an evidence based review. Annual Meeting of Nebraska Veterinary Medical Association, Omaha, NE. Jan 21-22.

O'Connor, A.M., 2011. Weight of Evidence Applied to Food Safety Interventions. International Life Sciences Institute Annual Meeting, Orlando, Florida, Jan 25.

O'Connor, A.M., 2011. A randomized controlled trial of *M. bovis* autogenous vaccines for control on IBK in Cattle. Annual Meeting of Virginia Veterinary Medical Association, Feb 22-23.

O'Connor, A.M., 2012. Methods of designing and critically appraising interventions studies in livestock. Annual Meeting of Virginia Veterinary Medical Association, Feb 22-23.

O'Connor, A.M., 2010. Clinical trial design and statistical methods for Clinical trials. Boehringer Ingelheim Swine Academy, Ames, Iowa. Sept 22.

O'Connor, A.M., 2011. (Keynote) Epidemiologists: we're not the same as statisticians. Annual Conference for Research Workers in Animal Disease. Dec 07, 2011.

O'Connor, A.M., 2012. Pinkeye control in beef cattle: an evidence based review. Annual Meeting of Oklahoma Veterinary Medical Association, Feb 22-23.

O'Connor, A.M., 2012. Methods of designing and critically appraising interventions studies in livestock: an evidence based review. Annual Meeting of Oklahoma Veterinary Medical Association, Feb 22-23.

O'Connor, A.M., 2012. Using GRADE to make recommendations about salmonella control pre-harvest. National Pork Board Unfired Meeting. Dallas-Fort Worth, Feb 8-9.

O'Connor, A.M., Coetzee J, Da Silva N, Wang C. 2012. Using Mixed Treatment Comparison Meta-Analysis to Compare Antibiotic Treatments for Bovine Respiratory Disease, American Association of Bovine Practitioners, Montreal, CA, Sept 22.

O'Connor, A.M., 2012. Meta-Analysis of Observational Studies, SCWABE symposium. Conference of Research Workers in Animal Diseases, Chicago, IL, Dec 5.

O'Connor, A.M., 2013. The epidemiology of IBK. Academy of Veterinary Consultants Norman Oklahoma.

O'Connor, A.M., 2013. Pain mitigation in piglets. A systematic review and recommendation development process National Pork Board, Des Moines.

O'Connor, A.M., 2013. Salmonella in swine: What are others doing on-farm? What the prevalence in the US. USAHA meeting Subcommittee on Salmonella, San Diego. (Sponsored by National Pork Board)

O'Connor, A.M., Coetzee J, Da Silva N, Wang C., 2013. Comparing Antibiotic Treatment Options for BRD. Denver.

O'Connor, A.M., 2013 The Association between Proximity to Animal Feeding Operations and Community Health: A Systematic Review, National Pork Board Public Health Meeting, North Carolina.

O'Connor, A.M., 2014. Pain mitigation in piglets. A systematic review and recommendation development process American Association of Swine Practitioners Annual Meeting . March , Dallas Fort Worth

O'Connor, A.M., 2014. Pain mitigation in piglets. A systematic review and recommendation development process. Lemen Swine Practitioners Conference . Sept , St Paul, Minnesota

O'Connor, A.M., 2015. Pain management in food producing animals: An evidence-based approach. AAVPT Biennial Symposium Agenda Fort Collins, May 18th 2015.

O'Connor, A.M., Sargent, J. 2015. Designing randomized controlled trial. Special Session @, Annual Conference of the American College of Veterinary Internal Medicine. Indianapolis, Indiana , 3rd June 2015 Special Session @, Annual Conference of the American College of Veterinary Internal Medicine. Indianapolis, Indiana , 3rd June 2015

O'Connor, A.M., 2015. Application and interpretation of systematic reviews and meta-analysis in veterinary medicine. Special Session @, Annual Conference of the American College of Veterinary Internal Medicine. Indianapolis, Indiana , 3rd June 2015.

PRESENTATIONS (SCIENTIFIC)

O'Connor, A.M., Martin, S.W., Nagy, E., 1999. The association between bovine corona virus seroconversion, treatment rates and weight gain in feedlot calves. 32nd American Association of Bovine Practitioners Annual Conference, Nashville, TN, Sept 23-26.

McEwen, S.A., Poppe, C., Poppi, M., Werber, D., **O'Connor, A.M.**, Dunlop, H., 2000. Therapeutic and in-feed antimicrobial use and resistance in fecal commensals of swine and cattle. 9th International Symposium on Veterinary Epidemiology and Economics, Breckenridge, CO, Aug 6-11.

O'Connor, A.M., Martin, S.W., Shewen, P., Harland, R., Ribble, C., 2000. Elaborating on differences in the immune response to *Pasteurella hemolytica* and *Haemophilus somnus* as risk factors for bovine respiratory disease. 9th International Symposium on Veterinary Epidemiology and Economics, Breckenridge, CO, Aug 6-11.

Hurd, H.S., McKean, J.D., Gailey, J.K., Griffith, R.W., **O'Connor, A.M.**, 2002. The direct effect of holding pens on *Salmonella* isolation rates from market swine. 82nd Conference of Research Workers in Animal Diseases, St Louis, MO, Nov 11-13.

O'Connor, A.M., McKean, J.D., Gailey, J.K., Hurd, H.S., 2002. Sampling strategies for quantifying *Salmonella* spp. in swine lairage pens. 82nd Conference of Research Workers in Animal Diseases, St Louis, MO, Nov 11-13.

O'Connor, A.M., Gailey, J.K., Hurd, H.S., 2002. Development of a spatially valid sampling technique for the enumeration of *Salmonella* in the swine abattoir holding pen. 89th Annual Meeting of the International Association of Food Protection, San Diego, CA, June 29-July 4.

O'Connor, A.M., McKean, J.D., Gailey, J.K., Hurd, H.S., 2002. Sampling strategies for quantifying *Salmonella* spp. in swine lairage pens. 89th Annual Meeting of the International Association of Food Protection, San Diego, CA, June 29-July 4.

O'Connor, A.M., Ziebell, K.A., Poppe, C., McEwen, S.A., 2002. The association between therapeutic use of oxytetracycline and changes in the prevalence of antibiotic resistance and virulence genes in commensal *Escherichia coli* in cattle. International Conference on Emerging Infectious Diseases, Atlanta, GA, March 24-27.

O'Connor, A.M., Ziebell, K.A., Poppe, C., McEwen, S.A., 2002. The association between therapeutic use of oxytetracycline and changes in the prevalence of antibiotic resistance and virulence genes in commensal *Escherichia coli* in cattle. 82nd Conference of Research Workers in Animal Diseases, St Louis, MO, Nov 11-13.

O'Connor, A.M., Sorden, S.D., Apley, M.D., 2003. The association between persistently bovine viral diarrhea virus-infected calves and pen levels of morbidity and mortality in an Iowa feedlot. 36th American Association of Bovine Practitioners Annual Conference, Columbus, OH, Sept 15-17.

Robbe-Austerman, S., Stabel, J., **O'Connor, A.M.,** Thoen, C.O., Martin, B., 2003. Comparison of the γ -Interferon ELISA and the skin test for the detection of sub-clinical John's disease in cattle. 36th American Association of Bovine Practitioners Annual Conference, Columbus, OH, Sept 15-17.

Schmidt, P.L., **O'Connor, A.M.,** McKean, J.D., Griffith, R.W., Hurd, H.S., 2003. The role of disinfection in the control of *Salmonella* in swine lairage pens. 4th International Conference on Emerging Zoonoses, Ames, IA, Sept 18-21.

Sorden, S.D., **O'Connor, A.M.,** Apley, M.D., 2003. The association between persistently bovine viral diarrhea virus-infected calves and pen levels of morbidity and mortality in an Iowa feedlot. Iowa Veterinary Medical Association Winter Conference, Ames, IA, Feb 2.

Yoon, K.J., **O'Connor, A.M.,** 2003. Development of an ELISA for the detection of IgG and IgM antibodies to bovine viral diarrhea virus and infectious bovine respiratory syncytial virus in cattle. Iowa Veterinary Medical Association Winter Conference, Ames, IA, Feb 2.

O'Connor, A.M., 2003. Review of Feral Pigs Models in Australian Foot and Mouth Disease Plan: Feral Pigs and FMD Workshop organized by the Office of the Chief Veterinary Officer, Canberra, Australia, August.

Pyburn, D.G., Patton, S., Zimmerman, J.J., McKean, J.D., Evans, R.B., **O'Connor, A.M.,** Smedley, K.L., Faulkner, C.T., Zhou, E.M., 2003. Risk factors for swine infection with *Toxoplasma gondii*. 5th International Symposium on the Epidemiology and Control of Food-borne Pathogens in Pork, Hersonissos, Greece, Oct 1-4.

O'Connor, A.M., Gray, J.T., Hurd, H.S., McKean, J.D., Rostagno, M.H., 2003. Genetic relatedness of *Salmonella enterica* isolates from pens and swine at slaughter. 5th International Symposium on the Epidemiology and Control of Food-borne Pathogens in Pork, Hersonissos, Greece, Oct 1-4.

Hurd, H.S., McKean, J.D., Gailey, J.K., Griffith, R.W., **O'Connor, A.M.,** 2003. Slatted pen floors reduce *Salmonella* in market swine held in abattoirs. 5th International Symposium on the Epidemiology and Control of Food-borne Pathogens in Pork, Hersonissos, Greece, Oct 1-4.

O'Connor, A.M., McKean, J.D., Beary, J.H., Brockus, S., Zhou, E.M., 2003. The Sero-prevalence of *Salmonella* spp. in finishing swine in Iowa. 5th International Symposium on the Epidemiology and Control of Food-borne Pathogens in Pork, Hersonissos, Greece, Oct 1-4.

McKean, J.D., Beary, J.H., Brockus, S., **O'Connor, A.M.**, Zhou, E.M., 2003. Determination of *Toxoplasma gondii* antibody prevalence in Midwest market swine. 5th International Symposium on the Epidemiology and Control of Food-borne Pathogens in Pork, Hersonissos, Greece, Oct 1-4.

Evans, R.B., Sannier, A., **O'Connor, A.M.**, Zimmerman, J.J., Wach, M., 2003. Evaluation of static and dynamic infectious disease outbreak control strategies using virtual reality. 84th Conference of Research Workers in Animal Diseases, Chicago, IL, Nov 9-11.

Evans, R.B., Sannier, A., **O'Connor, A.M.**, Zimmerman, J.J., Wach, M., 2003. Demonstration of virtual reality to develop disease outbreak models and control strategies. 84th Conference of Research Workers in Animal Diseases, Chicago, IL, Nov 9-11.

Evans, R.B., Sannier, A., **O'Connor, A.M.**, Zimmerman, J.J., Wach, M., 2003. Application of virtual reality to the development of disease outbreak / control strategy models. 84th Conference of Research Workers in Animal Diseases, Chicago, IL, Nov 9-11.

Schmidt, P.L., **O'Connor, A.M.**, McKean, J.D., Griffith, R.W., Hurd, H.S., 2003. Ecology of *Salmonella* spp. in swine lairage pens described by antimicrobial susceptibility clustering before and after cleaning and disinfection. 84th Conference of Research Workers in Animal Diseases, Chicago, IL, Nov 9-11.

Evans, R.B., Sannier, A., **O'Connor, A.M.**, Zimmerman, J.J., Wach, M., 2004. Evaluation of static and dynamic infectious disease outbreak control strategies using virtual reality. 85th Conference of Research Workers in Animal Diseases, Chicago, IL, Nov 14-16.

Evans, R.B., **O'Connor, A.M.**, 2004. The association between BVDV exposure and respiratory disease in feedlot cattle: A quantitative assessment and adjustment for systematic error on odds ratio estimation. 85th Conference of Research Workers in Animal Diseases, Chicago, IL, Nov 14-16.

O'Connor, A.M., McKean, J.D., Beary, J.H., Brockus, S., 2004. The prevalence of exposure to *Salmonella* spp. in finishing swine marketed by multi-site high-volume producers in Iowa. 85th Conference of Research Workers in Animal Diseases, Chicago, IL, Nov 14-16.

Pyburn, D.G., Patton, S., Zimmerman, J.J., McKean, J.D., Evans, R.B., **O'Connor, A.M.**, Smedley, K.I., Faulkner, C.T., Zhou, E.M., 2004. Risk factors for swine infections with *Toxoplasma gondii*. 18th International Pig Veterinary Society Congress. Hamburg Congress Centre, June 27-July 1.

Whipple, A.E., Kinyon, J.M., **O'Connor, A.M.**, 2004. The association between putative causal organisms and the occurrence of infectious bovine keratoconjunctivitis in beef calves. 85th Conference of Research Workers in Animal Diseases, Chicago, IL, Nov 14-16.

O'Connor, A.M., Evans, R.B., McKean, J.D., 2004. Using bootstrap re-sampling techniques to convey uncertainty about farm rankings (league tables): *Salmonella* spp. classifications for swine production sites as an example. 85th Conference of Research Workers in Animal Diseases, Chicago, IL, Nov 14-16.

Whipple, A.E., Kinyon, J.M., **A.M. O'Connor.**, 2004. Evaluating several media for the recovery of putative causal organisms from infectious bovine keratoconjunctivitis cases in beef calves. 85th Conference of Research Workers in Animal Diseases, Chicago, IL, Nov 14-16.

O'Connor, A.M., McKean, J.D., Beary, J.H., Brockus, S., 2005. The prevalence of exposure to *Salmonella* spp. in finishing swine marketed in Iowa. 36th American Association of Swine Veterinarians Annual Meeting, Toronto, Canada, March 5-8.

Robbe-Austerman, S., Stabel, J.R., Palmer, M.V., **O'Connor, A.M.**, 2005. Comparing the probability of MAP tissue culture positivity in CMI negative and CMI positive sheep. 8th International Colloquium on Paratuberculosis, Copenhagen, Denmark, Aug 14-18.

Robbe-Austerman, S., Young, S., **O'Connor, A.M.**, Palmer, M.V., Stabel, J.R., 2005. Detecting CMI responses to *Mycobacterium avium* ssp. *paratuberculosis* infection in calves born to naturally infected dams. 8th International Colloquium on Paratuberculosis, Copenhagen, Denmark, Aug 14-18.

Wessel, N.M., **O'Connor, A.M.**, McKean, J.D., Carr, J., 2005. Assessing a questionnaire designed to capture information about farm facilities, biosecurity and hygiene practices. 36th American Association of Swine Veterinarians Annual Meeting, Toronto, Canada, March 5-8.

O'Connor, A.M., Schultz-Kaster, C., Kocher, M., Cast, W., Norgrant, A.L., Rostagno, M., McKean, J.D., Hurd, H.S., 2005. Effect of pellet vs. mash corn-soy diets on *Salmonella* prevalence. 6th International Symposium on the Epidemiology and Control of Food-Borne Pathogens in Pork, Sonoma, CA, Sept 6-9.

O'Connor, A.M., Kinyon, J.M., Whipple, A.E., Reecy, J., 2005. *Moraxella bovis* and *Branhamella ovis* and the occurrence of pinkeye in beef calves. 38th American Association of Bovine Practitioners Annual Conference, Salt Lake City, UT, Sept 23-24.

Wellman, N.G., **O'Connor, A.M.**, Evans, R.B., Roth, D.R., 2006. An application of evidence-based medicine: antibiotic treatments for infectious bovine keratoconjunctivitis. Second Symposium on Evidence-based Veterinary Medicine, Starkville, MS, June 14-18.

Wellman, N.G., **O'Connor, A.M.**, Evans, R.B., 2006. An application of evidence-based medicine: comparison of antimicrobial treatments of bovine respiratory disease. Second Symposium on Evidence-based Veterinary Medicine, Starkville, MS, June 14-18.

Burns, M., **O'Connor, A.M.**, 2006. An application of evidence-based medicine: criteria on meta-analysis of pinkeye vaccine trials. Second Symposium on Evidence-based Veterinary Medicine, Starkville, MS, June 14-18.

McKean, J.D., **O'Connor, A.M.**, Zhou, E.M., Beary, J.H., 2006. Changes in the prevalence of *Salmonella* antibodies on 502 farms from 2002 to 2004. 19th International Pork Veterinary Society, Copenhagen, Denmark, July 16-19.

O'Connor, A.M., McKean, J.D., Beary, J.H., Brackus, S., 2006. The prevalence of exposure to *Salmonella* in finishing swine marketed by multi-site high-volume producers in Iowa. 19th International Pork Veterinary Society, Copenhagen, Denmark, July 16-19.

O'Connor, A.M., Denagamage, T., Sargeant, J., Rajic, A., McKean, J., 2006. A systematic review of pre-harvest interventions to reduce *Salmonella* in swine. 11th International Meeting of the Society for Veterinary Epidemiology and Economics. Cairns, Australia, Aug 2-4.

Denagamage, T., **O'Connor, A.M.**, Sargeant, J., Rajic, A., McKean, J., 2006. Effectiveness of Vaccine and its Association with Measures of *Salmonella* Prevalence in Live and Slaughtered Swine - A Systematic Review. 85th Conference of Research Workers in Animal Diseases, Chicago, IL, Nov 14-16.

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- O'Connor, A.M.** Denagamage, T., Sargeant, J., Rajic, A., McKean, J. 2007. Interventions associated with feeding management practices and feed characteristics, and measures of *Salmonella* prevalence in live and slaughtered swine: A systematic review and summation of evidence. In: **7th International Symposium "Safepork"** on the epidemiology and control of foodborne diseases in pork, Verona, Italy. p. 304.
- Sargeant, J., Waddell, L., **O'Connor, A. M.**, Denagamage, T., Wills, R., Bailey, R.H., Byrd, J. 2007. Efficacy of Post-harvest Strategies to Reduce *Campylobacter* in Broilers: A Systematic Review. In: 3rd Med-Vet-Net Annual Scientific Meeting, Barga, Lucca, Italy.
- O'Connor, A.M.**, Waddell, L., Sargeant J.M., Denagamage, T., Willis, R., Bailey, R.H., Byrd, J. 2007. A systematic review of studies evaluating variation in chilling procedures and *Campylobacter* spp. recoverable from poultry. In: *144th American Veterinary Medicine Association Annual Convention*, Washington, D.C.
- Burns, M., **O'Connor, A.M.** 2007. Assessment of methodological quality and source of variation in the magnitude of vaccine efficacy: a systematic review of studies from 1960 to 2005 reporting immunization with *Moraxella bovis* vaccines. In: 2007 AABP Annual Conference, Vancouver, British Columbia. pp. 242.
- Reed, M.C., **O'Connor, A.M.**, Yoon, K.J., Cooper, V.L. 2007. The effect of sample handling on sensitivity and specificity of BVDV antigen-capture ELISA. In: 2007 AABP Annual Conference, Vancouver, British Columbia. pp. 239.
- Guerin, M.T., Sir, C., Sargeant, J., **O'Connor, A.M.** 2008. The change in prevalence of *Campylobacter* on broiler chicken carcasses during processing: A systematic review. In: Conference of Research Workers in Animal Diseases, Chicago, IL. Abstract 82.
- O'Connor, A. M.**, Sargeant, J., Bennett, P., Dickson, J., Gardner, I., Torrence, M. 2008. Methods and Processes for modifying the CONSORT statement for livestock interventions studies. [FSRRN]. In: Conference of Research Workers in Animal Diseases, Chicago, IL. Abstract 48.
- Wang, B., McKean, J.D., **O'Connor, A.M.** 2008. Association between *Salmonella* shedding on farms and the *Salmonella* detection at slaughter in Iowa finishing swine. In: Conference of Research Workers in Animal Diseases, Chicago, IL. Abstract 101.

- Utne, J. J., Bearson, S. M.D., Dekkers, J. C., Qu, L., **O'Connor A. M.**, McKean, J. D., Steffensmeier, K.M., Tuggle, C.K. 2009. Identifying Genetic Polymorphisms Associated with *Salmonella* Shedding for Improved Food Safety and Porcine Disease Resistance. *In: Poster session Plant and Animal Genome Conference, San Diego, CA.*
- O'Connor, A.M.** 2009. Modifying the CONSORT statement for livestock intervention trials. *In: Australian College of Veterinary Science Week Scientific Meeting. Gold Coast, Queensland, July 1-3.*
- Irwin, C, **O'Connor, A.M.**, Yoon, K. 2009. Assessing the evidentiary value of published studies reporting factors associated with the survival of influenza in the environment. *In: American Society for Virology 28th Annual Meeting, Vancouver, British Columbia.*
- O'Connor A.M.**, Sargeant, J., Gardner, I., Dickson, J., Bennett, P., Torrence, M.E. 2009. Standards for reporting clinical trials: The REFLECT statement for clinical trials in veterinary medicine. *In: 12th International Symposium on Veterinary Epidemiology and Economics, Durban, South Africa.*
- O'Connor, A.M.** 2009. Establishing Guidelines for Reporting Clinical Trials: An Extension of the CONSORT Statement for Trials Involving Livestock with Production, Health, and Food Safety Outcomes. *In: American Association for Bovine Practitioners, Omaha Convention Omaha, NE. pp. 205.*
- Funk, L., Maroney, M., Engelken, T., Cooper, V.L., Kinyon, J., Plummer, P., **O'Connor, A.M.** 2009. A randomized and blinded field trial to assess the efficacy of an autogenous vaccine to prevent naturally occurring infectious bovine keratoconjunctivitis (IBK) in beef calves. *In: American Association for Bovine Practitioners Omaha Convention, Omaha, NE. pp. 174.*
- Brace, S., Taylor, D., **O'Connor, A.M.** 2009. Evaluation of the Conference Proceedings and Peer-reviewed Publications for Vaccine-related Studies Presented at the Annual Meeting of the American Association of Bovine Practitioners from 1988 to 2003. *In: American Association for Bovine Practitioners Omaha Convention, Omaha, NE. pp. 201.*
- O'Connor, A.M.** 2009. Standards for reporting clinical trials: The CONSORT statement for clinical trials in livestock. Application to food safety. *In: Annual Meeting of the American College of Epidemiology, Washington D.C.-Silver Spring. pp. 56.*
- Irwin, C., **O'Connor, A.M.** 2009. Using a systematic review to inform policies about livestock disease control: An influenza example. *In: Annual Meeting of the American College of Epidemiology, Washington D.C.-Silver Spring. pp. 45.*
- Wang, B., McKean, J., **O'Connor, A.M.** 2009. *Salmonella* spp. at Slaughter Lacks Ability to Predict Contamination on Farm. *In: Safe Pork Symposium, Québec City, Canada. pp. 323.*
- Wang, B., Logue, C.M., Tivendale, K., McKean, J., **O'Connor, A.M.** 2009. Multilocus Sequence Typing for Characterization of Nontyphoidal *Salmonella* Strains in Swine Isolated on Farm and at Slaughter. *In: Safe Pork Symposium, Québec City, Canada. pp. 279.*
- O'Connor A.M.**, Sargeant J.M., Gardner I., Dickson J., Torrence, M.E. 2009. Standards for reporting clinical trials: The CONSORT statement for clinical trials in livestock. Application to food safety. *In: Safe Pork Symposium, Québec City, Canada. pp. 54.*
- O'Connor, A.M.**, McKean J.D., Dickson J. 2009. Investigating the epidemiology of Salmonella in pork. A systematic review approach from slaughter to cooler. *In: Safe Pork Symposium, Québec City, Quebec, Canada. pp. 48.*
- O'Connor, A.M.**, Auvermann, B., Bickett-Weddle, D., Kirkhorn, S., Sargeant, J.M., Ramirez, A., Von Essen, S.G. 2009. The Association between Proximity to Animal Feeding Operations and

Community Health: A Systematic Review Evaluating the Evidence. *In: Midwest Rural Agricultural Safety & Health Forum*, Johnston, IA. pp. 12

Irwin, C.K., **O'Connor, A.M.**, Wang, C., Yoon, K.J., Zimmerman, J. 2010. Assessing the evidence of published studies reporting factors associated with the stability of influenza in the environment using a systematic review. *Proceedings of the American Association of Swine Veterinarians*. Omaha, NE. pp. 363.

Brace, S., Taylor, D., **O'Connor, A.M.** 2010. The quality and fate of vaccine trials presented at veterinary conferences from 1988 to 2003. *Proceedings of the American Association of Swine Veterinarians*. Omaha, NE. pp. 371.

Wang, B., Logue, C.M., Tivendale, K.A., McKean, J.D., **O'Connor, A.M.** 2010. Serotyping and 7- Housekeeping-Gene Multilocus Sequence Typing Have Similar Discriminatory Ability to Differentiate *Salmonella enterica*. 110th General Meeting of the American Society for Microbiology. San Diego, CA.

Uthe, J.J., Bearson, S.M.D., Dekkers, J.C., Qu, L., Nettleton, D.S., Rodriguez-Torres, Y., **O'Connor, A.M.**, McKean, J.D., Tuggle, C.K. 2010. Integrating Comparative Expression Profiling Data with Association of SNPs to *Salmonella* Shedding for Improved Food Safety and Porcine Disease Resistance. ISAG meeting. Edinburgh, UK.

O'Connor, A.M. as part of the EFSA Working Group 2010. A framework for determining the applicability and practical feasibility of a systematic review: experience from the area of risk assessment for food and feed safety. Joint Colloquium of the Cochrane & Campbell Collaborations. Keystone Resort, Colorado. pp. 91.

O'Connor, A.M. 2010. Using mixed treatment comparisons meta-analysis to compare interventions for which no head-to-head comparison exists: Treatments for bovine respiratory disease. Proceeding of the 89th Conference of Research Workers in Animal Diseases, Chicago, IL.

Wang, B., McKean, J., **O'Connor, A.M.** 2010. *Salmonella enterica* in swine production: Temporal and spatial diversity based on amplified fragment length polymorphism method. Proceeding of the 89th Conference of Research Workers in Animal Diseases, Chicago, IL.

Sargeant, J., Kelton, D., Snedeker, K., Wisener, L., Leonard, E., Guthrie, A., Faires, M., **O'Connor, A.M.** 2010. Reporting of methodological features in observational studies of pre-harvest food safety. Proceeding of the 89th Conference of Research Workers in Animal Diseases, Chicago, IL.

GRANTS AND CONTRACTS (EXTRAMURAL)

Investigations into the effect of long-term nutrient deprivation of serum insulin-like growth factors in steers, Co-Investigator, funded by Australian Postgraduate Funding Scheme, \$20,000, 1995-1998.

Peri-marketing control strategies to reduce *Salmonella* contamination, Co-Investigator, funded by United State Department of Agriculture and Food Research Initiative, \$750,000, 2001-2004.

A serological epidemiological study of UBRD in Iowa feedlot cattle, Co-Investigator, funded by Iowa Veterinary Medical Association, \$45,000, 2001-2003.

Agreement between fecal culture of putative enteric pathogens and histopathological findings in calves with neonatal diarrhea, Principal Investigator, funded by Iowa Veterinary Medical Association, \$15,000, 2001-2002.

Determination of *Salmonella* classification levels for selected Iowa swine herds and an evaluation of production risk factors for classification status, Co-Investigator, funded by National Pork Board, \$99,000, 2002-2003.

Toxoplasma survey proposal: determination of the *Toxoplasma* antibody prevalence in Midwestern market swine, Co-Investigator, funded by National Pork Board, \$30,000, 2002-2004.

Investigating the genetic relatedness among *Salmonella* species isolated in transportation trucks, holding pens and from swine at slaughter, Principal Investigator, funded by National Pork Board, \$25,810, 2002-2003.

Integrating security into livestock production management on farms and ranches to insure a sustainable and wholesome food supply, Principal Investigator, funded by USDA- Cooperative State Research, Education, and Extension Service Higher Education Challenge Grant, \$68,000, 2002-2006.

The association between persistently bovine viral diarrhea virus-infected calves and pen levels of morbidity and mortality in an Iowa feedlot, Principal Investigator, funded by Iowa Veterinary Medical Association, \$15,000, 2001-2002.

Development of an isotype-restricted ELISA for the detection of IgG and IgM antibodies to bovine viral diarrhea virus and respiratory syncytial virus in cattle, Co-Investigator, funded by Iowa Veterinary Medical Association, \$11,000, 2001-2002.

Determination of *Salmonella* classification levels for selected Midwestern swine herds utilizing abattoir-based samples and comparison of herd classification stability over time, Co-Investigator, funded by National Pork Board, \$87,750, 2004-2005.

Investigation a new culture media for *Moraxella bovis*, Principal Investigator, funded by Iowa Veterinary Medical Association, \$5,900, 2004-2005.

Evaluation of sows at harvest to determine the incidence of abnormalities that could lead to culling of breeding herd females, Co-Investigator, funded by National Pork Board, \$104,552, 2004-2005.

Systematic review of pre-harvest food safety interventions: *Salmonella* in swine, Co-Investigator, funded by USDA-NRI Food Safety Coordinated Agricultural Project, \$40,500, 2005-2009.

An epidemiological assessment of bovine viral diarrhea virus in United States alpacas, Co-Investigator, funded by Alpaca Research Foundation, \$17,600, 2005-2007 .

Quantifying the association between the farm, the lot and the lairage and carcass product *Salmonella* contamination, Principal Investigator, funded by USDA-NRI Epidemiological Approaches to Food Safety, \$980,000, 2005-2010.

Identification of breeding herds containing persistently infected BVDV cattle: serology on unvaccinated sentinel calves, Principal Investigator, funded by Iowa Veterinary Medical Association, \$50,000, 2005-2008.

Enabling graduate learning in risk analysis with emphasis on food, agriculture and veterinary medicine, Co-Investigator, funded by USDA- Cooperative State Research, Education, and Extension Service Higher Education Challenge Grant, \$148,823, 2006-2008.

Interventions to reduce *Campylobacter* in poultry: a systematic review, Co-Investigator, funded by USDA-NRI Food Safety Coordinated Agricultural Project, \$67,733, 2006-2009.

Assessing the ecology of *Salmonella* in swine production: primary processing-processing, Principal Investigator, funded by National Pork Board, \$35,000, 2007-2009.

Assessing the ecology of *Salmonella* in pork production: post processing, Principal Investigator, funded by American Meat Institute, \$35,000, 2007-2009. (matching grant for NPB)

A systematic review of community health effects of confined animal agriculture, Principal Investigator, funded by United Soybean Board, \$50,000, 2008-2009.

Identifying ecologic and epidemiologic factors in the controls of PRRS: A field bases approach, Co-Investigator, funded by USDA NIFA, \$240,232, 2009-2010.

Food Systems Veterinary Medicine for the 21st Century, Co-Investigator, USDA Higher Education Challenge, \$308,667, 2010-2013.

Approaches to reporting information sources Pork Safety Risk Assessments Co-Principal Investigator, funded by Food Safety Consortium, \$39,877, 2010-2011.

Evaluating the sources of Salmonella after carcass chilling, Co-Investigator, funded by National Pork Board, \$50,208, 2010-2011.

International salmonella control programs, Principal Investigator, funded by National Pork Board, \$38,070, 2010-2011.

Risk informed management of Salmonella in deep tissue lymph nodes, Co-Investigator, funded by National Pork Board, \$52,070, 2010-2011.

Cochran Training, Food Safety Risk Assessment, China, Oct. 30-Nov. 13, 2010. Co-investigator. USDA-Foreign Agricultural Service (FAS), \$37,024, 2010-2011.

Effect of Lairage on Prevalence of Methicillin-Resistant *Staphylococcus aureus* (MRSA) in Market Swine, Co-Investigator, funded by National Pork Board, \$54,800, 2011-2012.

Implementation of systematic reviews in EFSA scientific outputs workflow, funded by European Food Safety authority, Co-Investigator ISU subcontract- \$32,000, O'Connor component of subcontract \$32000. Overall grant submission ~ \$258,785 (€ 199,632), 2011-2012.

Conducting systematic reviews or part(s) of systematic reviews in animal health and welfare risk assessment, funded by European Food Safety authority, \$60000-Investigator ISU subcontract.

A survey to evaluate the level of anthelmintic resistance of internal parasites in Iowa cow/calf operations. Co-investigator, ILHAC, \$24,564, 2011-2012.

Analysis of Salmonella Pre-Harvest Control Strategies for Domestic and International Markets. Primary Investigator, National Pork Board, \$36,800, 2011-2012.

Implementation of systematic reviews in EFSA scientific outputs workflow. Food Safety Authority. Principal investigator, ISU subcontract \$32,000, 2011-2012.

Effect of Lairage on Prevalence of Methicillin-Resistant *Staphylococcus Aureus* (Mrsa) in Market Swine. Co-investigator, National Pork Board, \$54,810. 2011-2012.

An Examination of Argon Gas for On-Farm Anesthesia and Euthanasia of Livestock. Co-investigator, USDA-National Institute of Food & Agriculture (NIFA), \$499,993, 2011-2015.

Proposal to the National Pork Board to Host a Workshop on: Pain Management for the Neonatal Piglet. Principal investigator, National Pork Board, \$123,141, 2012-2013.

Impact of Cache Valley, Cholul and Schmallenberg Viruses on Ovine Health in the Midwest. Co-investigator, Iowa Livestock Health Advisory Council, \$75,000, 2012-2015.

European Food Safety Authority Framework Grant LOT 1: Training in SR or in specific step(s) of SR for EFSA RA. Principal investigator, European Food Safety Authority, \$642,850, 2012-2016.

European Food Safety Authority Framework Grant LOT 2: Advice on performing SR and/or part(s) of SR in food and feed safety RA. Principal investigator, European Food Safety Authority, \$514,280, 2012-2016.

Novel and Practical Approaches for Mitigation of *Campylobacter* in Poultry. Co-investigator, USDA-National Institute of Food & Agriculture (NIFA), \$2,499,543, 2012-2017.

Scientific Services to Support EFSA Systematic Reviews (Lot 4- Microbial Food Safety). Principal investigator, University of Guelph, \$264,001, 2012-2016.

Scientific Services to Support EFSA Systematic Reviews (Lot 7- Animal Health And Welfare). Principal investigator, European Food Safety Authority, \$660,000, 2012-2016.

Extending the Shelf Life of Livers, Lungs, Kidneys, and Hearts. Co-investigator, National Pork Board, \$41,940, 2014.

Caring for Compromised Swine-An Assessment of Swine Marketed Through Buying Stations and Development of Fitness for Transport Guidelines. Co-Investigator, National Pork Board. \$69,715, 2013-2015.

A Systematic Review of the Association between Community Health and CAFOS. Principal investigator, National Pork Board, \$62,561, 2013-2014.

Preparatory work for the future development of scientific opinions on Animal Health. Call Reference: RC/EFSA/AHAW/2014/01¹ A. O'Connor¹, D. Wolfe², J. Sargeant², J. Glanville³ and H. Wood³ Iowa State University, Ames Iowa, USA, University of Guelph, Guelph, CA, York Health Economics Consortium, University of York, UK 2014

A review of the main welfare risks related to electrical stunning of small ruminants (ovine and caprine species) . Call Reference: RC/EFSA/AHAW/2014/02. A. O'Connor¹, R. S Dzikamunhenga¹, S. Totton², J. Sargeant², J. Glanville³ and H. Wood³ 1 Iowa State University, Ames Iowa, USA, 2 University of Guelph, Guelph, CA, 3 York Health Economics Consortium, University of York, UK 2014

A review of the main welfare risks related to stunning of rabbits. Call Reference: RC/EFSA/AHAW/2014/03. A. O'Connor¹, R. S Dzikamunhenga¹, S. Totton², J. Sargeant², J. Glanville³ and H. Wood³ 1 Iowa State University, Ames Iowa, USA, 2 University of Guelph, Guelph, CA, 3 York Health Economics Consortium, University of York, UK 2014

Systematic review of the effect of perch height on keel bone fractures/deformation/injuries, bone strength, foot lesions and perching behavior, Call Reference: RC/EFSA/AHAW/2014/04 A. O'Connor¹, R. S Dzikamunhenga¹, S. Totton², D. Wolfe², J. Sargeant², J. Glanville³ and H. Wood³ Iowa State University, Ames Iowa, USA, University of Guelph, Guelph, CA, York Health Economics Consortium, University of York, UK 2014

A Systematic Review of the Changes in Tenderness in swine. Principal investigator, National Pork Board, \$35,561, 2014-2015.

A Systematic Review of the pathogen reduction treatments in swine. Principal investigator, National Pork Board, \$40,000, 2014-2015.

GRANTS AND CONTRACTS (INTRAMURAL)

Enumeration of *Salmonella* in postmortem porcine samples, Principal Investigator, funded by Food Safety Consortium ISU, \$33,000, 2002-2004.

Estimating the sensitivity and specificity of the three commercial ELISA's, the skin test, and fecal culture in beef cattle, Principal Investigator, funded by Iowa Livestock Health Advisory Council, \$21,550, 2003-2004.

An evaluation of the association between chronic disease in feedlot cattle and exposure to *Neospora*, Co-Investigator, funded by Graduate Student Research Incentive Grants, \$3,467, 2002-2003.

A field trial to evaluate commercial and autogenous pink eye vaccines, Co-Investigator, funded by Iowa Beef Center, \$3,500, 2002-2003.

To estimate the sensitivity and specificity of the Johnin skin test and ELISA Bio-Cor ELISA in cattle, Principal Investigator, funded by Iowa Beef Center, \$4,100, 2002-2003.

Real-time risk analysis of infectious diseases and biological events, Co-Investigator, funded by Healthy Livestock in Iowa Initiative, \$20,000, 2002-2003.

TEACH: Departmental learning and teaching grants "Methods of teaching evidence based medicine to professional students", Principal Investigator, funded by Center of Excellence for Learning and Teaching, \$1,500, 2004-2005.

Incorporation of Stata 8.0 into the Veterinary Medicine software capability, Principal Investigator, funded by College of Veterinary Medicine Computer Grants, \$5,763, 2004-2005.

Genetic markers to disease resistance: pinkeye (infectious keratoconjunctivitis) in beef herds, Principal Investigator, funded by Iowa Livestock Health Advisory Council, \$14,756, 2004-2005.

Evaluation of the economic impact of removal of persistently infected BVDV cattle from breeding herds, Principal Investigator, funded by College of Veterinary Medicine, \$50,000, 2005-2006.

Can we economically and effectively identify circulating BVDV in vaccinated cow-calf herds: Developing and evaluating a novel ELISA for BVDV, Principal Investigator, funded by Iowa Livestock Health Advisory Council, \$16,767, 2005-2006.

Modeling bovine viral diarrhea virus in beef heifers in the United States, Principal Investigator, funded by Healthy Livestock in Iowa Initiative, \$24,000, 2006-2008.

Randomized Clinical Trial to Assess Autogenous Vaccines for Pinkeye, Principal Investigator, funded by Iowa Livestock Health Advisory Council, \$20,000, 2009-2010.

Increasing the pace of translation by identifying more effective animal models, Principal Investigator, funded by Formula Funds, \$20,000, 2011-2012.

A dual-purpose challenge model study of Infectious Bovine Keratoconjunctivitis: Assessing causation and pain, Principal Investigator, submitted to Iowa Livestock Health Advisory Council, \$39,320, 2011.

A survey to evaluate the level of anthelmintic resistance of internal parasites in Iowa cow/calf operations, Co-Investigator, funded by Iowa Livestock Health Advisory Council, \$24,564, 2011

A randomized clinical trial to evaluate Vitamin A supplementation for the control of Infectious Bovine Keratoconjunctivitis (IBK) in beef cattle, Principal Investigator, funded by Leopold Center, \$5,000, 2011-2012.

Impact of Cache Valley, Cholul and Schmallenberg Viruses on Ovine Health in the Midwest, Co-Investigator, funded by Iowa Livestock Health Advisory Council, \$75,000, 2012-2015.

TEACHING

INSTRUCTOR IN CHARGE: GRADUATE CURRICULUM

VDPAM 522: Principles of Epidemiology* (3 credits)	2000-2014
VDPAM 529: Epi. Approaches to Population Studies* (3 credits)	2002-2014
VDPAM 566: Science, Policy, and Food (3 credits)	2008
STAT 401: Statistics for Research Workers (4 credits)	2005

* taught by distance delivery methods and on-campus

INSTRUCTOR IN CHARGE: GRADUATE COURSES AT OTHER UNIVERSITIES:

UIO 173:147 Applied Vet Epidemiology and Biostatistics (for University of Iowa: Masters in Public Health program) (3 credits)	2008-2014
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INSTRUCTOR IN CHARGE: DVM CURRICULUM

VDPAM 484: Introduction to Dairy Production (2 credits)	2002-2004
VDPAM 481: Introduction to Beef Production Medicine (2 credits)	2004-2005
VDPAM 483: Advanced Beef Production Medicine (2 credits)	2005-2006
VDPAM 310: Introduction to Production Medicine (2 credits)	2006
VDPAM 101: Study Abroad program Australia (2 credits)	2011(3 classes)

* taught by distance delivery methods and on-campus

CO-INSTRUCTOR: DVM CURRICULUM

VCS 384: Clinical Foundations (Dairy Rotation) (2 credits)	2002
VDPAM 484: Introduction to Dairy Production (2 credits)	2000
VDPAM 481: Introduction to Beef Production Medicine (2 credits)	2001-2003
VDPAM 483: Advanced Beef Production Medicine (2 credits)	2000-2005

GUEST LECTURES: DVM CURRICULUM

VCS 310: Veterinarian in Society	2002-2013
VDPAM 411: Food Animal Medicine and Surgery	2002-2006
VDPAM 484: Advanced Cow-Calf Production	2006-2013
VDPAM 487: Livestock Disease Prevention	2006-2013
HS 350: Human diseases	2010-2013
FSHN 489: Issues in Food Safety	2010-2013
VDPAM 570: Risk Assessment for Food, Agriculture and Vet. Med.	2010-2012

STUDENTS

MAJOR PROFESSOR

Dr. P. Schmidt, Masters of Science

Ms. A Norgrant, Master of Science (course work)

Dr. T. Denagamage, Master of Science

Dr. C. Irwinm, Master of Science

Dr Bing Wang, PhD

L. Funk, Master of Science (ABD)

P. Evans, Master of Science (current)

GRADUATE CERTIFICATE IN PREVENTIVE VETERINARY MEDICINE

A. Cullen, Graduate Certificate, VPM (graduated)

J. Fent, Graduate Certificate, VPM

L. Janzing, Graduate Certificate, VPM

H. Warneke, Graduate Certificate, VPM (graduated)

J. Hamersky, Graduate Certificate, VPM

L. Hautekeete, Graduate Certificate, VPM

A. Kessler, Graduate Certificate, VPM

F. Ferreyra, Graduate Certificate, VPM

C. Southerland, Graduate Certificate, VPM

STUDENT MENTORING: POS COMMITTEES (GRADUATED)

M. Wiederhold, Master of Science, College of Agriculture, Department of Animal Science (2003)

S. Thirisup, Doctor of Philosophy, College of Agriculture, Department of Entomology (2003)

C. Crowson, Master of Science, College of Agriculture, Department of Statistics (2005)

R. Swartz, Master of Arts College of Liberal Arts and Science, Department of English (2005)

J. Rodriguez, Master of Science, College of Agriculture, Department of Animal Science (2006)

S. Robbe-Austerman, Doctor of Philosophy, College of Veterinary Medicine, Department of Veterinary Microbiology and Preventive Medicine (2006)

K. Wittenberger, Master of Science, College of Agriculture and Life Sciences, Department of Economics (2007)

S. Meardon, Doctor of Philosophy, College of Human Sciences, Department of Health and Human Performance (2008)

K. Laurson, Doctor of Philosophy, College of Human Sciences, Department of Health and Human Performance (2008)

A. Stricker, Master of Science, College of Veterinary Medicine, Department of Veterinary Diagnostic and Production Animal Medicine (2008)

R. Yoo, Master of Science, College of Human Sciences, Department of Kinesiology (2008)

J. Bowden, Master of Science, College of Veterinary Medicine, Department of Veterinary Diagnostic and Production Animal Medicine (2009)

T. Dinslage, Master of Science, College of Veterinary Medicine, Department of Veterinary Diagnostic and Production Animal Medicine (2009)

J. Waddel, Master of Science, College of Veterinary Medicine, Department of Veterinary Diagnostic and Production Animal Medicine (2010)

J. Tucker, Doctor of Philosophy, College of Human Sciences, Department of Health and Human Performance (2010)

A. Kittawornrat, Master of Science, College of Veterinary Medicine, Department of Veterinary Diagnostic and Production Animal Medicine (2010)

R. Yoo, Doctor of Philosophy, College of Human Sciences, Department of Kinesiology (2010)

L. Layman, Master of Science, College of Veterinary Medicine, Department of Veterinary Diagnostic and Production Animal Medicine (2010)

T. Wang, Doctor of Philosophy, College of Agriculture and Life Science, Department of Economics

J. Liang, Doctor of Philosophy, College of Agriculture and Life Science, Department of Economics

D. Lock, Master of Science, College of Agriculture, Department of Statistics

A. Sowers, Master of Science, College of Veterinary Medicine, Department of Production Animal Medicine

J. Woods, Master of Science, College of Veterinary Medicine, Department of Production Animal Medicine

U. Jolie, Doctor of Philosophy, College of Agriculture, Department of Animal Science

Y. Cho, Doctor of Philosophy, College of Veterinary Medicine, Department of Veterinary Microbiology and Preventive Medicine

K. O'Neil, Master of Science, College of Veterinary Medicine, Department of Production Animal Medicine

MENTORING: POS COMMITTEES (CURRENT)

T. Drotar, Master of Science, College of Veterinary Medicine

A. DeClercq, Master of Science, Department of Production Animal Medicine

N. Da Silva, Master of Science (Stat), Department of Statistics

DVM STUDENTS INVOLVED IN RESEARCH PROGRAMS (* INDICATES STUDENTS WITH PUBLICATIONS)

N. Wessel. 2001-2003

A. Whipple

M. Burns. 2005-2007*

N. Wellman. 2005-2006*

D. Roth. 2005*

K. Lucas. 2005*

M. Reed. 2006*

M. Rice. 2008*

D. Taylor. 2008*

S. Brace. 2009*

P. Evans. 2011- 2012*

H. Newton. 2012*

B. Woods. 2013*

WORKSHOPS AND CONFERENCES ORGANIZED

Welfare and Epidemiology Conference: Across species, across disciplines and across borders. July 14-16 2008, Ames Iowa, Steering committee member. Funding provided by National Research Initiative grant # 2007-35204-18465, National Pork Board, Iowa Turkey Federation, Iowa Egg Council, Iowa State University, Norwegian School of Veterinary Science, and Iowa State University. Role: Co-Chair of Organizing Committee.

A workshop to modify the CONSORT statement for livestock and food safety. Nov 18-19 2009. Chair of Steering Committee. Funding was received from the USDA Food Safety and Response Network (Grant 2005-35212-15287), National Pork Board; Laboratory for Foodborne Zoonoses (Public Health Agency of Canada), Applied Public Health Research Chair program sponsored by the Canadian Institutes of Health Research's Institute of Population and Public Health and the Public Health Agency of Canada, The Association for Veterinary Epidemiology and Preventive Medicine, and The American Meat Institute Foundation. Role: Co-Chair of Organizing Committee.

USDA – Cochran Fellowship risk assessment training program for Chinese Ministry of Health, Nov 2010, Venue: Washington DC and Ames, Iowa. Role: Guide and presenter.

Workshop for Chairs- Pathways to Advancement: Associate to Full Professor Jan 25, 2011. This was workshop/lecture for department chairs at ISU to present the results of a study I conducted while an NSF ADVANCE fellow.

US State Department – Epidemiology for the control of Brucellosis in Afghanistan. Dubai - Dubai, UAE, Sept 27-28, 2011. A workshop hosted by US State Department with the Afghan Participants including the Director of Animal Health, Director of Quarantine Animal Health Department, Director of Veterinary Epidemiology, Director of Livestock and Animal Health Director of Regional Surveillance in Bamyán Director of Surveillance, The aim of the Workshop aim was provide information to participants to prevent and control Brucellosis in Afghanistan. The workshop engaged Brucella experts to assist in devising strategies to mitigate Brucellosis and reduce zoonotic infections and economic costs related to animal and human health.

Implementation of Systematic review into the European Food Safety Authority Workflow. Parma, Italy, March 2011. This 2.5 day workshop is taught with 5 colleagues from Canada, UK, and Denmark to train EFSA experts in the use of systematic reviews in the development of food safety policy. The workshop had 35 participants.

Implementation of Systematic review into the European Food Safety Authority Workflow. Parma, Italy, Sept 2011. This 2.5 day workshop is taught with 5 colleagues from Canada, UK, and Denmark to train EFSA experts in the use of systematic reviews in the development of food safety policy. The workshop had 45 participants.

Introduction to Epidemiology Nova Sad, Serbia, Dec 2011. This two day workshop was taught by myself only and introduced basic concepts in Epidemiology to Serbian veterinarians. The

workshop was organized by Dr. Eldon Uhlenhopp. Subsequent to the workshop 30 students enrolled in an online professional development course, Introduction to Epidemiology.

Evidence based Medicine Bi-annual symposium June 2010. Venue- Pomona, California. TBA
Funding was received Hills nutrition and Boehringer Ingelheim, Role: Co-Chair of Organizing Committee.

Decision making in food safety: Using GRADE to make recommendations about salmonella control pre-harvest. This National Pork Board funded panel meeting was hosted by me at ISU. Invited panels included Guy Longergan of Texas Tech, Julie Funk of Michigan State, and David Renter of KSU. The group reviewed the evidence for pre-harvest control of Salmonella and used the GRADE system to decide recommendations. The product of this meeting will be abstracts at ISVEE, IPVS and peer-reviewed publication assessing the utility of GRADE in the food safety decision making.

Developing Guidelines for Pain mitigation in piglets Two day expert workshop with 21 participants, Sponsor: National Pork Board, Role: Convenor and Chair.

Safe Pork 2013 - 10th International Symposium "Safepork" on the epidemiology and control of foodborne diseases in pork- Boston. Venue: TBA. Member of Steering Committee and Chair of Scientific Committee. Funding TBA. Role: Chair Scientific committee.

Using Meta-analysis and understand Heterogeneity in systematic reviews. Parma, Italy, Sept 30-Oct 1, 2013. This two day workshop was taught with 3 colleagues from Canada, UK, and Denmark to train EFSA experts in the use of meta-analysis in systematic reviews in the development of food safety policy.

Critical Appraisal of Systematic reviews. Parma, Italy, Oct 7-8, 2013. This two day workshop was taught with 3 colleagues from Canada, UK, and Denmark to train EFSA experts to understand the indicators or comprehensive report and quality standards for systematic reviews.

Introduction to Systematic Reviews and Meta-Analysis. Chicago, USA, Dec 7, 2013. This half-day workshop was taught with a colleague from Canada. Role: Co-Convenor and Co-Chair.

The whole is not only more than but very different than the sum of its parts Schwabe Symposium, Chicago. Role: Convenor and Chair.

International Society for Veterinary epidemiology and economics. Veterinary Epidemiology & Economics: Planning Our Future Role: Scientific committee.

Evaluating the role of STROBE in Veterinary Epidemiology. Toronto, May 2014. Role: Convenor and Chair.

The 2014 Schwabe Symposium, Chicago. Role: Convenor and Chair.

PROFESSIONAL ORGANIZATIONS MEMBERSHIPS

American College of Epidemiology

Australian College of Veterinary Scientists (Fellowship examiner)

Conference of Research Workers in Animal Diseases (Member)

Association of Veterinary Preventive Medicine and Epidemiology (President)

Evidence-Based Veterinary Medical Association

GRANT AND MANUSCRIPT AND P&T PACKAGES REVIEWS

INTERNATIONAL COMPETITIVE GRANT PROGRAMS

Biotechnology and Biological Sciences Research Council (BBSRC) (2013)

FEDERAL COMPETITIVE GRANT PROGRAM REVIEW PANELS

USDA-NIR program: Animal Health and Well-Being (2009)

USDA 1890 Capacity Building Grants (2010-2011-2012)

AD HOC REVIEWER/GRANTS

PRRS NRI-NC229 proposal (2006)

USDA-NIR Small Business proposal (2007)

USDA-NIR program: Conference Grants NRI for ISVEE (2007)

Fullbright Scholarship program

AD HOC REVIEWER/JOURNALS

Acta Veterinaria Scandinavica

African Journal of Biotechnology

American Journal of Veterinary Research

BMC Veterinary Research

Canadian Veterinary Journal

Food-borne Pathogens and Disease

International Journal of Food Microbiology

Journal of Animal Science

Journal of AgroMedicine

Journal of the American Association of Laboratory Animal Science

Journal of American Veterinary Medical Association

Journal of Dairy Science

Journal of Internal Veterinary Medicine

Journal of Theoretical Biology

Journal of Veterinary Diagnostic Investigation

La revue de Médecine Vétérinaire

Laws

Preventive Veterinary Medicine

Theriogenology

The Veterinary Journal

Vaccine

Veterinary Microbiology

Zoonoses and Public Health

SPECIAL EDITION EDITOR

Preventive Veterinary Medicine- 2013 Schwabe symposium

Animal Health Research Reviews-A special issue on systematic reviews

SERVICE FOR ORGANIZATIONS

Treasurer, Evidence-Based Veterinary Medical Association, 2006-2009.

President-Elect, Evidence-Based Veterinary Medical Association, 2009-2010.

President, Evidence-Based Veterinary Medical Association, 2010-2011.

Regional Officer, The Association for Veterinary Epidemiology and Preventive Medicine, 2009-2011.

President Elect, The Association for Veterinary Epidemiology and Preventive Medicine, 2012-2013.

President, The Association for Veterinary Epidemiology and Preventive Medicine, 2014-2016.

P&T PACKAGES

Assistant Professor to Associate, 1 in 2011

Associate to full professor, 1 in 2012, 2 in 2013