

University of Prince Edward Island
Faculty of Veterinary Medicine
Curriculum Vitae
GREGORY PAUL KEEFE



Innovation PEI Dairy Industry Research Chair
Director, Maritime Quality Milk
Professor, Dairy Production
Department of Health Management
September 2014

ACADEMIC QUALIFICATIONS			
DEGREE	UNIVERSITY	YEAR	SPECIALTY
Masters in Business Administration	Guelph	2002	Agriculture
Advanced Graduate Diploma in Management	Athabasca	2001	
Master of Science	Prince Edward Island	1995	Epidemiology
Doctor of Veterinary Medicine	Guelph	1988	

EMPLOYMENT HISTORY		
Employer	Term	Position
University of Prince Edward Island, Atlantic Veterinary College, Department of Health Management	1996 -present	Tenured -2000 Full Professor - 2005
University of Guelph, Ontario Veterinary College, Department of Population Medicine	1996-2002	Adjunct graduate faculty
University of Guelph, Ontario Veterinary College, Department of Population Medicine	1994-1996	Contract Clinical Faculty
University of Prince Edward Island, Atlantic Veterinary College, Department of Health Management	1991-1992 and 1993-1994	Contract Faculty (maternity leave replacement)
West Prince Veterinary Service O'Leary PE	1988-1993	Associate clinical veterinarian

APPROXIMATE DISTRIBUTION OF EFFORT (%)				
Year(s)	Teaching (inc. grad student supervision)	Research	Service	Administration
2006/15 ¹	25	35	10	30 ²
2005/06	35	35	25	5
2004/05	30	35	15	20 ³
2002/04	30	35	25	10
2001/02	Sabbatical			
1996/2001	30	30	25	15

¹Sabbatical scheduled July 2014-Dec 2104 and July 2015-Dec 2015.

²Administrative management of MQM (>\$1,000,000 in revenues per year) includes reporting, workflow assignment, human resources, financial management and prospecting.

³Includes 6-month term as acting Department Chair.

HIGHLY QUALIFIED PERSONNEL TRAINING				
Name	Dates	Location	Program	Role
Maria Vasquez	2014 - present	AVC/UPEI	MSc	Supervisor ¹
Babafela Awosile	2014 - present	AVC/UPEI	PhD	Supervisory committee
Dr. Carrie Lavers	2014 - present	AVC/UPEI	PDF	Supervisor
Dr. Marguerite Cameron	2014 - present	AVC/UPEI	PDF	Supervisor
Dr. Omid Nekouei	2012 - present	AVC/UPEI	PhD	Supervisor
Dr. Ibrahim Elsohaby	2012 - present	AVC/UPEI	PhD	Supervisor
Dr. Julian Reyes	2012 - present	AVC/UPEI	PhD	Supervisor
Dr. Karen MacDonald-Phillips	2011 - present	AVC/UPEI	MSc	Supervisor
Dr. Kim MacDonald	2011-2012	AVC/UPEI	PDF	Supervisor
Adel Elghafghuf	2011 - 2014	AVC/UPEI	PhD	Supervisory committee
Dr. Ahmed Elmoslemany	2010 - 2011	AVC/UPEI	PDF	Supervisor
Dr. Emilie Laurin	2010 - present	AVC/UPEI	PhD	Supervisor
Dr. Jennifer Burns	2010 - 2014	AVC/UPEI	MSc	Supervisory committee
Dr. Carrie Lavers	2009 - 2013	AVC/UPEI	PhD	Supervisor
Dr. Marguerite Cameron	2009 - 2014	AVC/UPEI	PhD	Supervisor
Dr. Kristen Reyher	2008 - 2012	AVC/UPEI	PhD	Supervisory committee
Dr. Kim MacDonald	2007-2011	AVC/UPEI	PhD	Supervisor
Dr. Jennifer McCarron	2006-2012	AVC/UPEI	MSc	Supervisor
Dr. Chris Callaway	2006 - withdrew 2010	AVC/UPEI	PhD	Co-supervisor
Dr. Raph VanderStichel	2006-2011	AVC/UPEI	PhD	Supervisory committee
Dr. Signe Anderson	2006 - withdrew 2010	AVC/UPEI	PhD	Supervisory committee
Dr. Ahmed Elmoslemany	2005-2009	AVC/UPEI	PhD	Supervisor
Dr. Richard Olde Riekerink	2003-2007	AVC/UPEI	PhD	Co-supervisor
Dr. Fabienne Uehlinger	2003-2007	AVC/UPEI	PhD	Supervisory committee
Dr. Shannon Martinson	2003-2007	AVC/UPEI	MVSc	Supervisory committee
Dr. Carolyn Sanford	2002-2005	AVC/UPEI	PhD	Supervisor
Dr. Aboubakar Mounchili	2000-2005	AVC/UPEI	PhD	Supervisory committee
Dr. Ashwani Tiwari	2000-2005	AVC/UPEI	PhD	Supervisory committee

Dr. Joao-Paulo Haddad	2000-2005	AVC/UPEI	PhD	Supervisory committee
Dr. Shawn McKenna	2000-2005	AVC/UPEI	PhD	Supervisor
Dr. Javier Sanchez	1999-2003	AVC/UPEI	PhD	Supervisory committee
Dr. Ane Nodveldt	1999-2001	AVC/UPEI	MSc	Supervisory committee
Tammy Whyte	1999-2002	NSAC/Dal	MSc	Supervisory committee
Dr. Emery Leger	1999-2002	AVC/UPEI	MSc	Supervisor
Dr. Randy Dingwell	1999-2002	Guelph	DVSc	Supervisory committee
Dr. Pipat Arunvipas	1998-2001	AVC/UPEI	MSc	Supervisory committee
	2001-2004	AVC/UPEI	PhD	Supervisory committee
Dr. Jocelyn Jansen	1996-2001	Guelph	DVSc	Supervisory committee

¹Many students at AVC are co-supervised by 2 faculty members. Where I was the lead supervisor, managing the students program, I have listed this as supervisor. When I was the secondary supervisor in the team, I have listed this as co-supervisor, to clearly distinguish the roles.

PUBLICATIONS IN PEER-REVIEWED JOURNALS	
1	Elsohaby I, Riley CB, Hou S, McClure JT, Shaw RA, Keefe GP. Measurement of serum immunoglobulin G in dairy cattle using Fourier-transform infrared spectroscopy: A reagent free approach. <i>accepted in The Veterinary Journal</i> .
2	Lavers CJ, Dohoo IR, McKenna SLB, Keefe GP. Evaluation of repeated test results using a commercial milk ELISA for detection of <i>Mycobacterium avium</i> subspecies <i>paratuberculosis</i> in dairy cattle. <i>accepted in J Am Vet Med Assoc</i> .
3	Podder MP, Rogers L, Daley PK, Keefe GP, Whitney HG, Tahlan K. 2014. Klebsiella species associated with bovine mastitis in Newfoundland. <i>PLoS One</i> . Sep 2;9(9).
4	Ramírez NF, Keefe G, Dohoo I, Sánchez J, Arroyave O, Cerón J, Jaramillo M, Palacio LG. 2014. Herd- and cow-level risk factors associated with subclinical mastitis in dairy farms from the High Plains of the northern Antioquia, Colombia. <i>J Dairy Sci</i> . Jul;97(7):4141-50.
5	Lavers CJ, Barkema HW, Dohoo IR, McKenna SLB, Keefe GP. 2014. Evaluation of milk ELISA for <i>Mycobacterium avium</i> subspecies <i>paratuberculosis</i> detection in dairy herds and association with within-herd prevalence. <i>J Dairy Sci</i> . Jan;97(1):299-309.
6	Cameron M, McKenna SL, MacDonald KA, Dohoo IR, Roy JP, Keefe GP. 2014. Evaluation of selective dry cow treatment following on-farm culture: Risk of post-calving intramammary infection and clinical mastitis in the subsequent lactation. <i>J Dairy Sci</i> . Jan;97(1):270-84.
7	Lavers CJ, McKenna SLB, Dohoo IR, Barkema HW, Keefe GP. 2013. Evaluation of environmental fecal culture for <i>Mycobacterium avium</i> subspecies <i>paratuberculosis</i> detection in dairy herds and association with apparent within-herd prevalence. <i>Can Vet J</i> . Nov;54(11):1053-60.
8	Vanderstichel R, Dohoo I, Sanchez J, Sithole F, Keefe G, Stryhn H. 2013. Predicting the effect of anthelmintic treatment on milk production of dairy cattle in Canada using an <i>Ostertagia ostertagi</i> ELISA from individual milk samples. <i>Prev Vet Med</i> . Aug 1;111(1-2):63-75.
9	Cameron M, Keefe GP, Roy JP, Dohoo IR, Macdonald KA, McKenna SL. 2013. Evaluation of a 3M Petrifilm on-farm culture system for the detection of intramammary infection at the end of lactation. <i>Prev Vet Med</i> . Aug 1;111(1-2):1-9.
10	Saini V, McClure JT, Léger D, Keefe GP, Scholl DT, Morck DW, Barkema HW. 2012 Antimicrobial resistance profiles of common mastitis pathogens on Canadian dairy farms. <i>J Dairy Sci</i> . Aug;95(8):4319-32.
11	Reyher KK, Dohoo IR, Scholl DT, Keefe GP. 2012. Evaluation of minor pathogen intramammary infection, susceptibility parameters, and somatic cell counts on the development of new intramammary infections with major mastitis pathogens. <i>J Dairy Sci</i> . Jul;95(7):3766-80.
12	Keefe G. 2012. Update on Control of <i>Staphylococcus aureus</i> and <i>Streptococcus agalactiae</i> . <i>Vet Clin North Am Food Anim Pract</i> . Jul;28(2):203-16.
13	Roy JP, Keefe G. 2012. Systematic Review: What is the Best Antibiotic Treatment for <i>Staphylococcus aureus</i> Intramammary Infection of Lactating Cows in North America? <i>Vet Clin North Am Food Anim Pract</i> .

	Mar;28(1):39-50.
14	Ali H, Keefe GP, Cepica A. 2012. Bovine Herpes Virus-4, A potential Cause of Mastitis in Canadian Dairy Cows. <i>British Journal of Dairy Sciences</i> . 2(3):31-34.
15	Ceballos-Márquez A, Barkema HW, Stryhn H, Dohoo IR, Keefe GP, Wichtel JJ. 2012. Bulk tank milk selenium and its association with milk production parameters in Canadian dairy herds. <i>Can Vet J</i> . 53:51–56.
16	Reyher KK, Dufour S, Barkema HW, Des Côteaux L, Devries TJ, Dohoo IR, Keefe GP, Roy JP, Scholl DT. 2011. The National Cohort of Dairy Farms-A data collection platform for mastitis research in Canada. <i>J Dairy Sci</i> . Mar;94(3):1616-26.
17	Dohoo IR, Smith J, Andersen S, Kelton DF, Godden S; Mastitis Research Workers' Conference. 2011. Diagnosing intramammary infections: evaluation of definitions based on a single milk sample. <i>J Dairy Sci</i> . 94:250-61.
18	Ceballos-Marquez A, Barkema HW, Stryhn H, Dohoo IR, Keefe GP, Wichtel JJ. 2010. Milk selenium concentration and its association with udder health in Atlantic Canadian dairy herds. <i>J Dairy Sci</i> . Oct;93(10):4700-9.
19	Elmoslemamy AM, Keefe GP, Dohoo IR, Wichtel JJ, Stryhn H, Dingwell RT. 2010. The association between bulk tank milk analysis for raw milk quality and on-farm management practices. <i>Prev Vet Med</i> . Jun 1;95(1-2):32-40.
20	O'Connor AM, Sargeant JM, Gardner IA, Dickson JS, Torrence ME, Dewey CE, Dohoo IR, Evans RB, Gray JT, Greiner M, Keefe G, Lefebvre SL, Morley PS, Ramirez A, Sischo W, Smith DR, Snedeker K, Sofos J, Ward MP, Wills R. 2010. The REFLECT statement: methods and processes of creating reporting guidelines for randomized controlled trials for livestock and food safety. <i>Prev Vet Med</i> . Jan 1;93(1):11-8.
21	Published simultaneously in <i>Zoonoses Public Health</i> . 2010 Mar;57(2):95-104.
22	Published simultaneously in <i>J Food Prot</i> . 2010 Jan;73(1):132-9.
23	Published simultaneously in <i>J Vet Intern Med</i> . 2010 Jan-Feb;24(1):57-64.
24	Vanleeuwen JA, Haddad JP, Dohoo IR, Keefe GP, Tiwari A, Scott HM. 2010. Risk factors associated with <i>Neospora caninum</i> seropositivity in randomly sampled Canadian dairy cows and herds. <i>Prev Vet Med</i> . Feb 1;93(2-3):129-38.
25	Vanleeuwen JA, Haddad JP, Dohoo IR, Keefe GP, Tiwari A, Tremblay R. 2010. Associations between reproductive performance and seropositivity for bovine leukemia virus, bovine viral-diarrhea virus, <i>Mycobacterium avium</i> subspecies <i>paratuberculosis</i> , and <i>Neospora caninum</i> in Canadian dairy cows. <i>Prev Vet Med</i> . Apr 1;94(1-2):54-64.
26	Andersen S, Dohoo IR, Olde Riekerink R, Stryhn H; Mastitis Research Workers' Conference. 2010 Diagnosing intramammary infections: evaluating expert opinions on the definition of intramammary infection using conjoint analysis. <i>J Dairy Sci</i> . 2010 Jul;93(7):2966-75.
27	McCarron JL, Keefe GP, McKenna SLB, Dohoo IR, Poole DE. 2009. Evaluation of the University of Minnesota Tri-plate and 3M Petrifilm for the isolation of <i>Staphylococcus aureus</i> and <i>Streptococcus spp.</i> from clinically mastitic milk samples. <i>J Dairy Sci</i> . Oct;92(10):5326-33.
28	Elmoslemamy AM, Keefe GP, Dohoo IR, Dingwell RT. 2009. Microbiological Quality of Bulk Tank Raw Milk in Prince Edward Island Dairy Herds. <i>J Dairy Sci</i> . Sep;92(9):4239-48.
29	Elmoslemamy AM, Keefe GP, Dohoo IR, Jayarao BM. 2009. Risk Factors for Bacteriological Quality of Bulk Tank Milk in Prince Edward Island Dairy Herds. Part 1: Overall Risk Factors. <i>J Dairy Sci</i> . Jun;92(6):2634-43.
30	Elmoslemamy AM, Keefe GP, Dohoo IR, Jayarao BM. 2009. Risk factors for Bacteriological Quality of Bulk Tank Milk in Prince Edward Island Dairy Herds. Part 2: Bacteria Count Specific Risk Factors. <i>J Dairy Sci</i> . Jun;92(6):2644-52.
31	McCarron JL, Keefe GP, McKenna SLB, Dohoo IR, Poole DE. 2009. Laboratory Evaluation of 3M Petrifilms and University of Minnesota Bi-plates as Potential On-Farm Tests for Clinical Mastitis. <i>J Dairy Sci</i> . May;92(5):2297-305.
32	Tiwari A, Vanleeuwen JA, Dohoo IR, Keefe GP, Haddad JP, Scott HM, Whiting T. 2009. Risk factors associated with <i>Mycobacterium avium</i> subspecies <i>paratuberculosis</i> seropositivity in Canadian dairy cows and herds. <i>Prev Vet Med</i> . 88:32-41.
33	Arunvipas P, VanLeeuwen JA, Dohoo IR, Keefe GP, Burton SA, Lissemore KD. 2008. Relationships among milk urea-nitrogen, dietary parameters, and fecal nitrogen in commercial dairy herds. <i>Can J Vet Res</i> . 72(5):449-

	53.
34	Tiwari A, VanLeeuwen JA, Dohoo IR, Keefe GP, Weersink A. 2008. Estimate of the direct production losses in Canadian dairy herds with subclinical <i>Mycobacterium avium</i> subspecies <i>paratuberculosis</i> infection. Can Vet J. 49:569-76.
35	Martinson SA, Hanna PE, Ikede BO, Lewis JP, Miller LM, Keefe GP, McKenna SL. 2008. Comparison of bacterial culture, histopathology, and immunohistochemistry for the diagnosis of Johne's disease in culled dairy cows. J Vet Diagn Invest. 20(1):51-7.
36	Arunvipas P, Vanleeuwen JA, Dohoo IR, Leger ER, Keefe GP, Burton AS, Lissemore KD. 2007. Milk urea-nitrogen negatively affected first-service breeding success in commercial dairy cows in Prince Edward Island, Canada. Prev Vet Med. 82(1-2):42-50.
37	Tiwari A, VanLeeuwen JA, Dohoo IR, Keefe GP, Haddad JP, Tremblay R, Scott HM, Whiting T. 2007. Production Effects of Pathogens Causing Bovine Leukosis, Bovine Viral Diarrhea, Paratuberculosis, and Neosporosis. J Dairy Sci. 90:659-669.
38	Tiwari A, VanLeeuwen JA, McKenna SLB, Keefe GP, Barkema H. 2006. Johne's Disease in Canada: Part I clinical symptoms, pathophysiology, diagnosis and prevalence in dairy herds. 47(9):874-82.
39	McKenna SLB, Keefe GP, Tiwari A, VanLeeuwen JA, Barkema H. 2006. Johne's Disease in Canada: Part II disease impacts, risk factors and control programs for dairy producers. 47(11):1089-99.
40	Olde Riekerink RGM, Barkema HW, Veenstra S, Keefe GP. 2006. Prevalence of contagious mastitis pathogens in bulk tank milk from Prince Edward Island dairy farms. Can Vet J. 47(6):567-72.
41	Sanford CJ, Keefe GP, Dohoo IR, Leslie KE. 2006. Assessment of antimicrobial transfer from treated to untreated mammary gland quarters by use of high-pressure liquid chromatography for detection of cloxicillin in milk samples from nonlactating dairy cows. 67(7):1140-4.
42	Sanford, CJ, Keefe, GP, Sanchez, J, Dingwell RT, Barkema, HW, Leslie, KE, Dohoo, IR. 2006. Test characteristics from latent-class models of the California Mastitis Test. Prev Vet Med. 77(1-2):96-108.
43	Sanford CJ, Keefe GP, Dohoo IR, Barkema HW, Dingwell RT, Leslie KE. 2006. The efficacy of an internal teat sealer used in conjunction with intramammary antibiotics on the cure of intramammary infections during the dry period. The Bovine Practitioner 40 (1):26-32.
44	Sanford CJ, Keefe GP, Dohoo IR, Leslie KE, Dingwell RT, DesCôteaux L, Barkema HW. 2006. Efficacy of using an internal teat sealer to prevent new intramammary infections in nonlactating dairy cattle. J Am Vet Med Assoc. 228(10):1565-73
45	McKenna SLB, Barkema HW, Keefe GP, Sockett DC. 2006. Agreement between three ELISAs for <i>Mycobacterium avium subsp. paratuberculosis</i> in dairy cattle. Vet Microbiol. 114 (3-4):285-91.
46	Sithole F, Dohoo IR, Leslie K, DesCoteaux L, Godden S, Campbell J, Keefe G, Sanchez J. 2006. Effect of eprinomectin pour-on treatment around calving on reproductive parameters in adult dairy cows with limited outdoor exposure. Prev Vet Med. 75 (3-4):267-79.
47	Sithole F, Dohoo I, Markham F, Sanchez J, Stryhn H, Keefe G. 2005. An evaluation of the stability of <i>Ostertagia ostertagi</i> ELISA microtitre plates over time using cow milk samples. Vet Parasitol. Nov 5;133(4):329-37.
48	McKenna SLB, Keefe GP, Barkema HW, Sockett DC. 2005. Evaluation of three ELISAs for <i>Mycobacterium avium subsp. paratuberculosis</i> using tissue and fecal culture as comparison standards. Vet Microbiol. 110:105-11.
49	McKenna SLB, Sockett DC, Keefe GP, McClure J, VanLeeuwen JA, Barkema HW. 2005. Comparison of two ELISAs for <i>Mycobacterium avium subsp. paratuberculosis</i> . Journal of Veterinary Diagnostic Investigation; 17:463-466.
50	Gonzalez M, Barkema HW and Keefe GP. 2005. Monensin Toxicosis in a Dairy Herd. Can Vet J. Oct;46(10):910-2.
51	Sanchez J, Dohoo I, Leslie K, Keefe G, Markham F, Sithole F. 2005. The use of an indirect <i>Ostertagia ostertagi</i> ELISA to predict milk production response after anthelmintic treatment in confined and semi-confined dairy herds. Vet Parasitol. 130:115-24.
52	Tiwari A, VanLeeuwen JA, Dohoo IR, Stryhn H, Keefe GP and Haddad JP. 2005. Effects of seropositivity for bovine leukemia virus, bovine virus diarrhoea virus, <i>Mycobacterium avium sub paratuberculosis</i> and <i>Neospora caninum</i> on culling in Dairy Herds in Four Canadian provinces. Vet Microbiol. 109:147-158.

53	McKenna SLB, Keefe GP, Barkema HB, McClure J, VanLeeuwen JA, Hanna P, and Sockett DC. 2004. Cow-level prevalence of paratuberculosis in dairy cows in Atlantic Canada and Maine. <i>J Dairy Sci.</i> 87:3770-3777.
54	Mouchili A, Wichtel JJ, Dohoo IR, Keefe GP and Halliday LJ. 2004. Risk factors for milk off-flavours in dairy herds from Prince Edward Island, Canada. <i>Prev Vet Med.</i> Jul 16;64(2-4):133-45.
55	Dingwell RT, Leslie K, Schukken YH, Sargent JM, Timms LL, Duffield TF, Keefe GP, Kelton DF, Lissemore KD, and Conklin J. 2004. Association of cow and quarter level factors at drying off with new intramammary infections during the dry period. <i>Prev Vet Med.</i> Apr 30;63(1-2):75-89.
56	Hariharan H. Donachie W, Macaldowie C, Keefe, G. 2004. Bacteriology and Somatic Cell Counts in Milk Samples from Post Partum Scottish Sheep. <i>Can J Vet Res.</i> 68:188-192.
57	Arunvipas P, Dohoo IR, Vanleeuwen J, Keefe GP. 2004. Bulk tank milk urea nitrogen: Seasonal patterns and relationship to individual cow milk urea nitrogen values. <i>Can J Vet Res.</i> 68:169-174.
58	Keefe GP, Dohoo IR, Valcour JE and RL Milton 2004. Ultrasonic Imaging of Marbling at Entry into the Feedlot as a Predictor of Carcass Traits at Slaughter. <i>Can J Anim Sci.</i> 84: 165-170.
59	Sanchez J, Markham F, Dohoo, I, Sheppard J, Keefe G, Leslie K. 2004. Milk antibodies against <i>Ostertagia ostertagi</i> : relationships with milk IgG and production parameters in lactating dairy cattle. <i>Vet Parasitol.</i> 120 319-330.
60	Wichtel JJ, Keefe GP, VanLeeuwen JA, Spangler E, McNiven MA, Ogilvie TH. 2004. The Selenium Status of Dairy Herds in Prince Edward Island. <i>Can Vet J.</i> 45:124-132.
61	Dingwell RT, Duffield TF, Leslie KE, Keefe GP, DesCoteaux L, Dick P, and Bagg R. 2003. Comparative Efficacy of a Novel Intramammary Dry Cow Antibiotic to Eliminate Subclinical Mastitis in the Dry Period. <i>Bovine Practitioner.</i> June 37 (2) :98-106.
62	Arunvipas P, Dohoo IR, Vanleeuwen J, Keefe GP. 2003. The effect of non-nutritional factors on milk urea nitrogen levels in dairy cows in Prince Edward Island, Canada. <i>Prev Vet Med.</i> May 30;59(1-2):83-93.
63	Arunvipas P, Vanleeuwen J, Dohoo IR, Keefe GP. 2003. Evaluation of the reliability and repeatability of automated MUN testing. <i>Can J Vet Res.</i> Jan;67(1):60-3.
64	Dingwell RT, Duffield TF, Leslie KE, Keefe GP, Kelton DF, Lissemore KD, Schukken YH, Dick P, Bagg R. 2002 Efficacy of intramammary tilmicosin and risk factors for cure of <i>Staphylococcus aureus</i> infection in the dry period. <i>J Dairy Sci.</i> Jan;86(1):159-68.
65	Dingwell RT, Duffield TF, Leslie KE, Keefe GP, Kelton DF, Lissemore KD, Schukken YH, Dick P, Bagg R. 2002. The efficacy of intramammary tilmicosin at drying-off, and other risk factors for the prevention of new intramammary infections during the dry period. <i>J Dairy Sci.</i> Dec;85(12):3250-9.
66	Nodtvedt A, Dohoo I, Sanchez J, Conboy G, DesCoteaux L, Keefe G, Leslie K, and Campbell J. 2002. The use of negative binomial modelling in a longitudinal study of gastrointestinal parasite burdens in Canadian dairy cows. <i>Can J Vet Res.</i> Oct;66(4):249-57.
67	LeBlanc SJ, Duffield TF, Leslie KE, Keefe GP, Bateman KG, Walton JS, Johnson WH, King WA. 2002. The Effect Of Treatment Of Endometritis On Reproductive Performance in Dairy Cows. <i>J Dairy Sci.</i> Sep;85(9):2237-49.
68	LeBlanc SJ, Duffield TF, Leslie KE, Keefe GP, Bateman KG, Walton JS, Johnson WH, King WA. 2002. Defining and Diagnosing Postpartum Endometritis, and its Impact on Reproductive Performance. <i>J Dairy Sci.</i> Sep;85(9):2223-36.
69	Chi J, VanLeeuwen JA, Weersink A, Keefe GP. 2002. Direct production losses and treatment costs from bovine viral diarrhoea virus, bovine leukosis virus, <i>Mycobacterium avium</i> subspecies <i>paratuberculosis</i> , and <i>Neospora caninum</i> . <i>Prev Vet Med.</i> Sep 30;55(2):137-53.
70	Chi J, VanLeeuwen JA, Weersink A, Keefe GP. 2002. Management factors related to seroprevalences to bovine viral diarrhoea virus, bovine leukosis virus, <i>Mycobacterium avium</i> subspecies <i>paratuberculosis</i> , and <i>Neospora caninum</i> in dairy herds in the Canadian Maritimes. <i>Prev Vet Med.</i> Sep 10;55(1):57-68.
71	Sanchez J, Dohoo I, Nodtvedt A, Keefe G, Markham F, Leslie K, Descôteaux L, Campbell J. 2002. A longitudinal study of gastrointestinal parasites in Canadian dairy farms: the value of an indirect <i>Ostertagia ostertagi</i> ELISA as monitoring tool. <i>Vet Parasitol.</i> Aug 2;107(3):209-26.
72	Nodtvedt A, Dohoo I, Sanchez J, Conboy G, DesCoteaux L, Keefe G. 2002. Increase in milk yield following eprinomectin treatment at calving in pastured dairy cattle. <i>Vet Parasitol.</i> May 2;105(3):191-206.
73	Duffield T, Bagg R, DesCoteaux L, Bouchard E, Brodeur M DuTremblay D, Keefe GP, Dick P. 2002. Prepartum monensin for the reduction of energy associated disease in postpartum dairy cows. <i>J Dairy Sci</i> 85:397-405.

74	VanLeeuwen JA, Keefe GP, Tremblay R, Power C, Wichtel JJ. 2001. Seroprevalence of Infection with Johne's Disease, Enzootic Bovine Leukosis and Bovine Viral Diarrhea in Maritime Canada Dairy Cattle. <i>Can Vet J.</i> 42(3):193-8.
75	VanLeeuwen JA, Keefe GP. 2001. A Survey of Demographics and Information Demands of Dairy Producers <i>Can Vet J.</i> Jan;42(1):57-59.
76	Keefe GP, VanLeeuwen JA. 2000. Neospora then and then and now: Prevalence of <i>Neospora caninum</i> in Maritime Canada in 1979, 1989 and 1998. <i>Can Vet J.</i> Nov;41(11):864-6.
77	Gutián FJ, Dohoo IR, Markham RJF, Conboy G, Keefe GP. 2000. Evaluation of Relationships Between Antibodies to <i>Ostertagia Ostertagi</i> and Herd Management Practices and Measures of Milk Production in Nova Scotia Dairy Herds. <i>Prev Vet Med.</i> Oct 19;47(1-2):79-89.
78	Keefe GP, Wichtel JJ. 2000. Evaluation of melengestrol acetate and equine chorionic gonadotropin for out-of-season breeding in Prince Edward Island sheep. <i>Can Vet J.</i> 41:211-214.
79	Leblanc SJ, Leslie KE, Ceelen HJ, Kelton DF, Keefe GP. 1998. The effect of Gonadotrophin-Releasing Hormone Administered One Week Prior to Prostaglandin F2 α on Measures of Estrus Detection and Pregnancy in a Synchronized Breeding Program for Lactating Dairy Cows. <i>J Dairy Sci.</i> 81:375-381.
80	Keefe GP. 1997. <i>Streptococcus agalactiae</i> mastitis: A review. <i>Can Vet J.</i> 38:429-437.
81	Keefe GP, Dohoo IR, Spangler E. 1997. Prevalence and incidence of <i>Streptococcus agalactiae</i> mastitis in Prince Edward Island dairy herds. <i>J Dairy Sci.</i> 80:464-470.
82	Burton SA, Ikede, BO, Lofstedt J, Keefe GP, Miller LM. 1994. Congenital dyserythropoiesis and dyskeratosis in a polled Hereford calf. <i>Can Vet J.</i> 35:519-520.

PUBLICATIONS IN PEER-REVIEWED SCIENTIFIC PROCEEDINGS	
*Denotes an invited/plenary presentation	
1	MacDonald-Phillips K, Keefe GP, McKenna SL. Program Outcomes from the Atlantic Johne's Disease Initiative. AABP Proceedings. Albuquerque, New Mexico. September 2014.
2	Cameron M, *Keefe G. Dry Cow Management. Proceedings National Mastitis Council. Ghent, Belgium. August 2014.
3	Cameron M, Keefe G, Roy J-P, Domike R, Dohoo I. Economic assessment of an on-farm culture system used in a selective dry cow therapy program. Proceedings National Mastitis Council. Ghent, Belgium. August 2014.
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The above list does not include non-peer reviewed proceedings. I am a frequent presenter at regional, national and international dairy industry events that do not involve peer-review.

Highlights of these in the last 5 years include the DeLaval robotic milking seminar (USA) 2013 and 2014, Dairy Focus (Nova Scotia) 2010, 2012 and 2014, Milk 2020 (New Brunswick) 2013, Western Canadian Dairy Seminar (Alberta) 2011, Bayer Animal Health (Colombia) 2010, Alberta Milk seminar series (Alberta) 2012, Valacta (10 seminars in 4 Atlantic provinces) 2012, Guelph Dairy Health Management Certificate Program (2012) and the Atlantic Bovine Practitioners Association (all 5 years).

RESEARCH AND DEVELOPMENT			
Year, term and value	Title	Agency	Role
2015 3-years \$137,707	Better animal welfare leads to improved animal longevity and economic advantages to dairy producers Subproject 5. Assessing a simplified advisory tool for improved cow comfort testing	Dairy Farmers of Canada (DFC) and Agriculture and Agri-food Canada (AAFC)	Principal Investigator
2013 5-years \$925,000	A National Dairy Cattle Health and Management Benchmarking Study	DFC-AAFC	Co-investigator
2014 1-year \$71,799	Effect of water quality on lactating dairy cattle	SilverBullet Corp.	Co-principal Investigator
2014 1-year \$24,998	Development of a rapid diagnostic test for <i>Streptococcus agalactiae</i> mastitis in milk samples from dairy cows	NSERC Engage	Principal Investigator
2014 1 year \$30,000	Bovine virus diarrhoea monitoring and prevention in Atlantic Canada	Zoetis Investment in Innovation Fund	Co-principal Investigator
2013 5-years \$1,714,722	¹ Canadian Bovine Mastitis and Milk Quality Research Network (CBMMQRN) Dairy Cluster 2	DFC-AAFC	Executive/Theme Leader
2013 3-years \$95,648	Pathogen and cow characteristics associated with recurrence of clinical mastitis	CBMMQRN ¹ (subproject of above)	Co-investigator
2014 3-year \$181,797	Validation of MALDI-TOF mass spectroscopy for coagulase-negative staphylococci identification with application to the CBMRN pathogen library and intramammary infection risk models	CBMMQRN ¹ (subproject of above)	Principal Investigator
2014 4-years \$185,928	Impediments to adoption of best mastitis management practices	CBMMQRN ¹ (subproject of above)	Co-investigator
2014 4-years \$146,755	Improving milk quality by allowing cows to stand and lie down in clean and comfortable environments	CBMMQRN ¹ (subproject of above)	Co-investigator
2015 3-years \$103,456	Economic impact of mastitis control practices	CBMMQRN ¹ (subproject of above)	Co-investigator
2015 2-years \$131,467	Quarter-based selective dry-cow therapy using on-farm diagnostics	CBMMQRN ¹ (subproject of above)	Co-investigator
2013	An Evaluation of the Efficacy of Experimental Post-	DeLaval	Principal

1-year \$88,750	Milking Teat Disinfectants for Prevention of Intramammary Infection and Target Animal Safety in Dairy Cattle	Manufacturing USA	Investigator
2013 1-year \$130,745	Bovine Leucosis in Maritime Dairy Herds	Dairy Farmers of PEI, NS and NB, Valacta, AAFC	Principal Investigator
2011 3-years \$1,200,000	Atlantic Johne's Disease Initiative	Dairy Farmers of PEI, NL, NS and NB, AAFC	Principal Investigator
2010 5-years \$1,890,000	Biomedical Infrared Technologies, Solutions and Services for assessment of immunity and immunoglobulin-based therapeutic products.	Atlantic Canada Opportunities Agency (ACOA)	Co-principal Investigator
2010 2-years \$169,200	Understanding and Controlling Variability in Bulk Milk Iodine in Canada	CBMMQRN	Principal Investigator
2010 2-years \$148,759	Evaluation of a Comprehensive Bulk Milk Testing Program to meet the Regulatory and Management needs of the Prince Edward Island Dairy Industry	Dairy Farmers of PEI, AAFC, PEI Agriculture	Principal Investigator
2010 2-years \$142,700	A study of <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> shedding patterns in feces, milk and colostrum and development of methods to detect the bacteria in colostrum	NSERC and DFC	Principal Investigator
2009 5-years \$942,500	Innovation PEI Dairy Industry Research Chair	PEI Department of Innovation and Advanced Learning	Chair
2009 2-years \$75,000	Evaluation of selective dry cow treatment following On-Farm Culture using Petrifilm [®] on low somatic cell count cows at dry off	Novalait	Co-principal Investigator
2009 1-year \$20,965	Researching Quality Livestock Bedding Products for NB Dairy Farms	Milk2020 (NB dairy industry and government consortium)	Principal Investigator
2009 1-year \$25,000	Development of an on-farm clinical mastitis treatment decision kit	Innovation PEI Pilot Fund – PEI Business Development	Principal Investigator
2006 5-years \$3,000,000	² Maritime Quality Milk (MQM) - Integrated milk quality research and services for enhanced competitiveness in the regional dairy-food sector	ACOA and CBMMQRN	Program Director
2006 5-years \$296,000	Development and validation of a predictive model for infection status in dairy cows at drying off, to facilitate selective dry cow therapy decisions in dairy cattle	MQM ² (subproject of above)	Principal Investigator
2006 5-years \$348,190	The use of individual milk, bulk milk and environmental samples in a voluntary Johne's Disease control program	MQM ² (subproject of above)	Co-principal Investigator
2006 5-years \$333,921	Evaluation of an ELISA for monitoring parasite burdens in Canadian dairy herds Parasite Impact on Production	MQM ² (subproject of above), Merial and Svanova	Co-investigator
2005 5-years \$526,820	Validation of on-farm mastitis pathogen identification systems and determination of the utility of a decision model to target therapy of	CBMMQRN ² (subproject of above)	Principal Investigator

	clinical mastitis during lactation		
2005 5-years \$474,600	Incidence and monitoring of new intramammary infections	CBMMQRN ² (subproject of above)	Co-investigator
2005 3-years \$106,510	Estimation of sensitivity of individual and pooled fecal culture for detection of <i>Mycobacterium avium subsp paratuberculosis</i> infection in dairy cattle	NSERC and DFC	Principal Investigator
2002 2-years \$150,000	A study of the efficacy, persistency, clearance and safety of TeatSeal for prevention of new intramammary infections during the dry period	Pfizer Animal Health	Co-principal Investigator
2002 2-years \$209,139	Ivomec Eprinex and the Epidemiology of Parasites in Lactating Dairy Cattle Part II	Merial Canada	Co-investigator
2001 2-years \$110,000	The development and evaluation of an ELISA for <i>Mycobacterium paratuberculosis</i> in North American cattle	Diagnostic Chemicals Limited and NRC-IRAP	Principal Investigator
2000 2-years \$60,000	Evaluation of the causes of milk flavour problems in the PEI milk supply	Dairy Farmers of PEI, PEI Agriculture	Co-investigator
2000 1-year \$5,000	Evaluation of data from the 1998 seroprevalence survey of four infectious diseases in Maritime dairy cattle.	Dairy Farmers of PEI	Co-principal Investigator
1999 2-years \$39,000	The efficacy of a novel intramammary antibiotic as a treatment for mastitis caused by <i>Staphylococcus aureus</i> and for the prevention of mastitis caused by <i>Streptococcus sp.</i> in non-lactating cows	Elanco, Division of Eli Lilly	Principal Investigator
1999 2-years \$191,000	Internal Parasites and Lactating Dairy Cattle	Merial Animal Health	Co-investigator
1998 2-years \$190,000	Application of MUN technology to nutritional management of dairy cattle under a variety of feeding systems	Dairy Farmers of PEI, PEI Agriculture, NRC-IRAP and AVC graduate stipend competition	Co-principal Investigator
1998 2-years \$69,000	Evaluation of ultrasound in weaned calved for assessment of carcass traits at slaughter	PEI Cattleman's Association, PEI Agriculture	Principal Investigator
1998 1-year \$3,900	Evaluation of Melengestrol acetate and Pregnant Mare's Serum Gonadotrophin in an out-of season breeding program for sheep	PEI Sheep Breeder Association, PEI Agriculture	Principal Investigator
1998 2-years \$78,560	Seroprevalence of four infectious diseases in dairy cattle in the Maritimes	SEMEX, CFIA, AAFC, CLEA, NSDAM, NBDA	Co-principal Investigator
1998 1-year \$13,975	A study to evaluate Svanovir Indirect ELISA tests for BLV and BVD	Diagnostic Chemicals Limited and Svanova Inc.	Co-principal Investigator
1998 1-year \$11,000	Evaluation of Extended Therapy with Pirlimycin Hydrochloride for the treatment of <i>Staphylococcus aureus</i> mastitis	Pharmacia and Upjohn	Principal Investigator
1998	Prevalence of verotoxigenic <i>E. coli</i> and <i>Salmonella</i>	NBDA	Co-

1-year \$6,000	<i>typhimurium</i> DT104 in New Brunswick dairy farms		investigator
1998 1-year \$29,680	A survey of the selenium status of dairy herds on PEI using selenium concentrations in bulk tank milk	Dairy Farmers of PEI, PEI Agriculture	Co-investigator
1998 1-year \$60,000	Evaluation of Metricure and Estrumate for treatment of post-partum endometritis	Intervet and Shering Plough	Co-investigator
1998 1-year \$28,000	Post-approval trial- Evaluation of Rumensin Controlled Release Capsules in Dairy Cattle in Quebec and PEI	Elanco, Division of Eli Lilly	Co-principal Investigator
1996 1-year \$13,000	Evaluation of the Progesterone Releasing Intravaginal Device in Dairy Cattle	Rhone Merieux	Principal Investigator
1996 1-year \$2,000	Evaluation of pirlimycin in an <i>Streptococcus agalactiae</i> eradication protocol	Pharmacia and Upjohn	Principal Investigator
1996 1-year \$3,000	Comparison of Oro-ruminal Probe and Rumenocentesis for Prediction of Rumen pH in Dairy Cattle	Human Resources SEED funding and internal	Principal Investigator
1996 2-years \$80,000	Evaluation of the Hymast culture system as an aid in decision-making for clinical mastitis therapy	Pharmacia and Upjohn	Co-investigator
1995 1-year \$8,000	Evaluation of barrier teat dip and California mastitis test in the periparurient cow	Pharmacia and Upjohn	Co-investigator
1995 1-year \$18,000	Evaluation of the effect of Monensin controlled release capsules in cattle challenged with <i>Eimeria bovis</i> and <i>Eimeria zuernii</i>	Elanco, Division of Eli Lilly	Co-principal Investigator
1995 1-year \$15,000	An evaluation of progesterone levels in milk, plasma and body fat of cows treated with a progesterone releasing intravaginal device	Sanofi Animal Health	Co-principal Investigator
1991 2-year \$6,000	Herd prevalence and incidence of <i>Streptococcus agalactiae</i> in Prince Edward Island and evaluation of an eradication extension program	AAFC	Co-principal Investigator

TEACHING RESPONSIBILITIES (Excluding graduate student supervision)					
Year(s)	Course and Number	Lecture	Lab	Clinic	Total
2012-14*	VHM 111 Animal Production Systems	1			1
	VHM 327 Mastitis and Milk Quality	12	2		14
	VHM 372 Health Mgmt of Dairy	2			2
2011-12*	VHM 111 Animal Production Systems	1			1
	VHM 327 Mastitis and Milk Quality	8	2		10
	VHM 446 Ambul Clin (Mastitis)			4	4
	VHM 372 Health Mgmt of Dairy	2			2
2010-11*	VHM 111 Animal Production Systems	2			2
	VHM 432 Ambul Clin Dairy			16	16
	VHM 446 Ambul Clin (Mastitis)			16	16
	VHM 372 Health Mgmt of Dairy	4	2		6

2007-10*	VHM 111 Animal Prod Sys	2			2
	VHM 432 Ambul Clin Dairy			16	16
	VHM 446 Ambul Clin (Mastitis)			16	16
2006-07*	VHM 372 H.M. Dairy	5	6		11
	VHM 431 Ambul Clin I			60	60
	VHM 441 Ambul Clin II			24	24
	VHM 432 Ambul Clin Dairy			24	24
	VHM 445 Ambul Clin (Nutrition)			12	12
	VHM 446 Ambul Clin (Mastitis)			20	20
Prior to 2006	VHM 111 Animal Prod Sys	8	27		35
	VHM 372 H.M. Dairy	16	16		32
	VHM 431 Ambul Clin I			480	480
	VHM 441 Ambul Clin II			48	48
	VHM 432 Ambul Clin Dairy			96	96
	VHM 445 Ambul Clin (Nutrition)			25	25
	VHM 446 Ambul Clin (Mastitis)			30	30
	VHM 448 Ambul Clin (Reproduction)			14	14
	VHM 449 Ambul Clinic (Cow/Calf)			14	14

*Note: since 2006 through the Directorship of Maritime Quality Milk and Innovation PEI Research Chair, I have self-funded backfill of much of my teaching duties.

PROFESSIONAL MEMBERSHIPS, COMMITTEES AND ACTIVITIES	
Dates	Activity
2014-present	Working group on ProAction Biosecurity implementation (Dairy Farmers of Canada)
2011-present	Leader of the <i>pathogen theme</i> (1 of 3 themes) and Scientific Executive for the Canadian Bovine Mastitis and Milk Quality Research Network
2010-present	Steering and Scientific Committee, Atlantic Johne's Disease Initiative
2009-present	Scientific committee of the Canadian Bovine Mastitis and Milk Quality Research Network
2009-2013	National Mastitis Council Technology Transfer Session Review Panel
2009	President, Mastitis Research Worker Conference, USDA NE1028
2008	Vice-President, Mastitis Research Worker Conference, USDA NE1028
2008-present	Valacta Advisory Committee
2008-2013	Dairy Farmers of Canada Production Expert Scientific Advisory Committee
2007-2008	Secretary, Mastitis Research Worker Conference, USDA NE1028
2007-2013	National Mastitis Council Milk Quality Committee
2006-present	Maritime Quality Milk Advisory Committee
2003-2004	Member scientific committee, World Buiatrics Congress, Quebec 2004
2001-2007	Canadian National Johne's Working Group, (National collaborative group on Johne's research and policy)
2000-2012	Examiner for the Clinical Proficiency Exam, National Examining Board of the Canadian Veterinary Medical Association/American Veterinary Medical Association
2000-present	Founding member - Atlantic Bovine Practitioners Association
1998 - 2005	Founding Member Production Limiting Diseases Committee (national committee to

	examine production diseases of livestock)
1988-present	P.E.I. Veterinary Medical Association (Executive Council 1990-1994)
1988-present	Canadian Veterinary Medical Association PEI representative to Council 1993-1994 Membership Committee 1993-1994
1993-present	American Dairy Science Association
1993-present	American Association of Bovine Practitioners
1988-present	National Mastitis Council
1994-1996	College of Veterinarians of Ontario

PROFESSIONAL AWARDS AND HONOURS	
Year	Award
2012	UPEI Presidential Award of Merit
2004	Pfizer Award for Research Excellence
2004	Pfizer Carl J Norden Distinguished Teacher Award
2002	Canadian Veterinary Medical Association Schering Veterinary Award for advancement of Large Animal Medicine in Canada
2002	University of Prince Edward Island Merit Award for Scholarly Achievement
1997	Atlantic Veterinary College Clinical Rotation Teaching Award

EDITORIAL ACTIVITY AND REVIEWS	
Organization	Activity
Journal of Dairy Science	Manuscripts Reviewed: 4-6 manuscripts per year
Canadian Veterinary Journal	Manuscripts Reviewed: 2-3 manuscripts per year
Canadian Journal of Veterinary Research	Manuscripts Reviewed: 1-2 manuscripts per year
Research in Veterinary Science	Periodic manuscript reviews
Animal	Periodic manuscript reviews
Journal of the American Veterinary Medical Association	Periodic manuscript reviews
University of Guelph	External Reviewer for promotion to Full Professor
University of Minnesota	External Reviewer for promotion to Full Professor
Dairy Farmers of Canada	Independent reviewer of research grant applications
Manitoba Ministry of Agriculture	Expert reviewer for grant applications
Alberta Livestock and Meat Agency	Expert reviewer for grant applications
Ontario Ministry of Agriculture, Food and Rural Affairs	Expert reviewer for grant applications
CABI	International reviewer for textbook development
Wellcome Trust (UK)	International reviewer for fellowship application

PROFESSIONAL CONSULTATION
Several calls each month from dairy producers and veterinarians around the Atlantic region and former students across Canada and the US.
I frequently consult for the dairy industry. Recent examples include; redesign of the regulatory framework for raw milk quality in PEI, participation in the design of the Dairy Farmers of Canada

national biosecurity standards for Canadian dairy farms, consultations on harmonization of the P5 (PE, NB, NS, ON and QC) dairy industry standards.
I also consult on new product development with the animal health and diagnostics industry, including work with most of the major pharmaceutical and diagnostics companies in the field.
I was part of the international expert panel to develop the REFLECT statement (protocol standards) for veterinary research and publication.

PARTICIPATION ON UNIVERSITY, COLLEGE AND DEPARTMENT COMMITTEES	
Year	Activity
2014	Task force on Graduate Studies and Research administration at AVC
2013	AVC Departmental structure review committee
2010	UPEI Senate representative (6 month term)
2009	AVC Strategic Planning Health Management representative
2008	Diagnostic Services Advisory Committee
2008	Departmental Representative on Dean Search Committee
2007-present	Executive Committee of the Centre for Veterinary Epidemiological Research
2007-2011	AVC Marketing and Recruitment Committee
2006-present	Director, Maritime Quality Milk (dairy research and service program)
2005	Chair, Departmental Review Committee
2005 (Jan-July)	Acting Chair, Department of Health Management
2004-2006	Service Chief, Farm Service Group, Veterinary Teaching Hospital
1996-2001	Service Chief, Farm Service Group, Veterinary Teaching Hospital
2005-2007	Selection committee for Norden (Pfizer) teaching award (Chair 2007)
2003	External examiner - University of Guelph
2003	Selection Committee for Associate Dean - Graduate Studies and Research
2002-2007	Department of Health Management Representative on Graduate Studies and Research Committee
2001	Appointed by Dean as AVC representative to the Task force for review of the Atlantic Provinces Agricultural Services Co-ordination Committee (APASCC)
2000 - 2003	AVC Task Force on Faculty Advancement
2000	External examiner - Nova Scotia Agriculture College
2000	Examiner, Ontario Veterinary College DVSc Defence
1997-2000	AVC admissions committee
1996-2004	Advisor-Student Chapter of the American Association of Bovine Practitioners
1997-2001	Atlantic Committee on Ruminant Livestock
1998-2001	Veterinary Consultant-Animal Care Committee at the Nappan Agriculture Canada Research Facility
1997-2010	CVMA National Advisory Group on Veterinary Medicine
1996-present	8 faculty search committees (on 3 of these committees I served as Chair)
1998-2002	AVC/VTH advisory committee
1997-2001	AVC/VTH Hospital Management committee
1998	Dean's Ad Hoc Committee on Clinical Research Centre Administrative Structure
1997	Participant - Logical Frameworks Analysis workshop for AVC Graduate Studies and Research