

## DANIEL T. SCHOLL

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## EDUCATION

**Ph.D.** (epidemiology); Vakroep Bedrijfsdiergeneeskunde, Faculteit Diergeneeskunde, (Department of Herd Health and Reproduction, Faculty of Veterinary Medicine), Universiteit Utrecht, the Netherlands. 5/92.

**M.P.V.M.** (epidemiology; Master of Preventive Veterinary Medicine); Department of Epidemiology and Preventive Medicine, School of Veterinary Medicine, University of California, Davis. 3/88.

**D.V.M.**; School of Veterinary Medicine, University of California, Davis. 12/87.

**B.S.** Veterinary Science; School of Veterinary Medicine, University of California, Davis. 6/85.  
162 quarter hours, Animal Science, College of Agriculture and Environmental Sciences, University of California, Davis. 9/79-6/83.

## PROFESSIONAL DEVELOPMENT

Murney and Associates, Executive Talent Management. Team development, 3/14 – 7/14.  
Executive coaching, 10/16 – present.

Harvard Management Development Program, Harvard Institutes of Higher Education, Harvard Graduate School of Education, Harvard University. 2015 Cohort: 5/31 – 6/12.

Media 101. How to conduct effective interviews and get your point across. American Dairy Science Association and Weber Shandwick, Inc. 1.5 hours. 5/11.

## PROFESSIONAL EXPERIENCE

### APPOINTMENTS

**Interim dean**, College of Agriculture and Biological Sciences, South Dakota State University. 5/16 – present.

**Associate dean for research and director**, South Dakota Agricultural Experiment Station and, College of Agriculture and Biological Sciences, South Dakota State University. 8/11 – 5/16.

**Full professor with tenure**, Department of Veterinary and Biomedical Sciences, College of Agriculture and Biological Sciences, South Dakota State University, 8/11 – present.

**Full professor with tenure**, Département de pathologie et microbiologie, Faculté de Médecine Vétérinaire, Université de Montréal. Clinical epidemiology research and programmatic leadership, graduate teaching and undergraduate teaching. 6/02 – 7/11.

—**Graduate Faculty**. 8/02 – 7/11.

—**Scientific Director**, Canadian Bovine Mastitis Research Network (CBMRN). 6/02 – 7/11.

**Adjunct professor**, Department of Health Management, University of Prince Edward Island 2/04 – 2/13.

**Adjunct associate professor**, Department of Pathobiological Sciences, School of Veterinary Medicine, Louisiana State University. Graduate student advising. 6/02 – 5/03.

**Adjunct associate professor**, Department of Dairy Science, Agricultural Center, Louisiana State University. Teaching and research related to dairy production-animal health. 4/00 - 6/02.

**Associate professor with tenure**, Department of Pathobiological Sciences (formerly Department of Epidemiology and Community Health), School of Veterinary Medicine, Louisiana State University. 7/97 – 6/02.

—**Assistant professor**, 3/92 – 6/97.

—**Graduate Faculty**, Full member 9/98 – 6/02; Associate member 9/92 – 9/98.

**Post graduate researcher**, Vakgroep Bedrijfsdiergeneeskunde, Faculteit Diergeneeskunde, (Department of Herd Health and Reproduction, Faculty of Veterinary Medicine), Universiteit Utrecht, , the Netherlands. 8/88 – 1/92.

**Post graduate researcher**, Department of Reproduction, School of Veterinary Medicine, University of California, Davis. Loglinear modeling of multivariate clinical trial data. 4/88.

## **CLINICAL SERVICE**

Small ruminant clinical disease and prevention in Haïti. Cooperative effort between Louisiana State University and Global Health Action. 8/96 - 12/00.

Productivity and health monitoring and consultation. Angola Prison Dairy. State of Louisiana. 1996 – 1997.

Productivity and health monitoring and consultation. LSU Dairy Herd Health Maintenance Program. Louisiana State University Agricultural Center Dairy Teaching and Research Facility. 10/95 – 6/02.

Field disease investigations. 6/92 – 6/02.

## **DIDACTIC INSTRUCTION and NEW COURSE DEVELOPMENT**

### **Undergraduate instruction**

#### **—South Dakota State University**

**Seminar: Careers in life sciences.** (BIOL 290) Life science career case study; 1 hr. 2/17.

**Senior Seminar.** (AS 489) Federal government shut down and farm bill development; 1 hr. 10/13.

**Junior Seminar, Plant Science.** (PS390) The history, role and impact of public land-grant universities in United States agriculture economy; 1 hr. 10/12.

—Louisiana State University

**Dairy Cattle Production Practices.** (DARY 2029) Laboratory responsibility for body condition scoring. 2/99 – 6/02.

**Dairy Farm Management.** (DARY4054) Lecture and laboratory responsibility for the herd health sections. 1/97 – 6/02.

**Professional degree instruction**

—Doctor of Veterinary Medicine program, Université de Montréal

**Quantitative Methods in Veterinary Medicine.** (DMV 2210) Application of evidence based medicine in the veterinary medical context. Instruction in French. Contributing instruction 1/05 – 5/08. Course coordinator 1/09 – 6/11.

—Doctor of Veterinary Medicine program, Louisiana State University

**Farm Animal Health.** (VMED 5468) Population approaches to farm animal health care and delivery in developed and developing countries. 1/93 – 3/98.

**Clinical Oncology.** (VMED 5272) Overview of the epidemiology of cancer within the clinical oncology course. 4/99 – 4/00.

**Clinimetrics.** (VMED 5252) Application of quantitative methods to clinical decision making. 9/98 – 6/02.

**Veterinary Public Health.** (VMED 5226) Responsible for lectures in preharvest food safety and bovine spongiform encephalopathy. 9/97 – 10/98.

**Farm Animal Herd Health and Production Medicine.** (VMED 5313) Livestock herd health programs. 1/95 – 3/99.

**Biometrics.** (VMED 5122) Applied veterinary biometrical methods. 9/92 – 12/93.

**Introduction to Epidemiology.** (VMED 5150, continued by VMED 5271) Epidemiological approach to disease control and population medicine. 4/92 – 6/02. Course coordinator 1/97 – 1/99.

**Dairy Cow Body Condition Scoring Programs.** Production Medicine Block and VMED 5468 (Food Animal Medicine Block). Year IV DVM clinical curriculum. 10/95 - 12/97.

**Dairy Production Performance Monitoring and Management Decision Making.** Production Medicine Block. Year IV DVM clinical curriculum. 1/93 - 12/95.

—Doctor of Veterinary Medicine program, Universiteit Utrecht

**Herd Diagnostics.** Eight hours lecture/laboratory in the basic dairy herd health clinical rotation. Topics include disease quantification, diagnostic test evaluation and strategic application of diagnostic tests in herds. Instruction in Dutch. 3/89 – 9/91.

**Epidemiologic Research Methods.** Eight hours lecture/laboratory in the advanced dairy herd health clinical rotation. Topics include application of epidemiological strategies to special problem investigation in dairy herds and critical evaluation of the literature. Instruction in Dutch. 4/89 – 9/91.

## **Graduate instruction**

### **—South Dakota State University.**

***Infectious disease.*** (BIOS 663) Concepts of infectious disease epidemiology; 2 hrs. 1/13 – 4/16.

***Research methods in economics.*** (Econ 707) Research approaches and accountability in the public land-grant university and agricultural experiment station system; graduate student roles and responsibilities; 1 hr. 10/11 – 11/15.

### **—Université de Montréal**

***Epidemiologic study design.*** (PTM 6675) Lecture and discussion on approaches to design and execution of epidemiologic studies in animal and public health. Emphasis is placed on issues of feasibility, bias and validity. Instruction in French. 2009 – 2011.

### **—Louisiana State University**

***Advanced Human Nutrition: Nutritional Epidemiology.*** (HUEC 7017) Advanced topics in human nutrition and research. Responsible for communicating the epidemiologic methods of nutritional epidemiology employed in several published nutritional epidemiology papers. 11/00.

***Epidemiologic Study Design Laboratory.*** (ECH 7312) Laboratory in the execution of design and analysis techniques presented in the lecture course. 1/98 – 6/02.

***Epidemiologic Study Design—Current Techniques Literature.*** (ECH7003) Reading and critical discussion on methodological issues addressed in the current epidemiological literature. 1/97 – 6/02.

***Epidemiologic Study Design.*** (ECH7312) Proposed, designed and delivered course on fundamental study design techniques in epidemiologic research. 1/95 – 6/02.

***Logistic Regression and Logistic Regression with Random Effects in Epidemiology.*** (ECH7002) Graduate special topics course. 1/94 - 5/94.

***Animal Health Economics Overview.*** (ECH 7311/VMP 7419) Three hours of contributing lecture/discussion in a course on natural and interventional dynamics of populations of disease agents. 10/92, 4/96.

***Principles and Methods of Epidemiology, I and II.*** (ECH 7301, ECH 7302) Topics of responsibility included design and analysis of descriptive studies, assessment and control of confounding in epidemiological studies, selection and information bias, and creation and management of epidemiologic databases. 9/92 – 6/02.

***Population Sampling in Veterinary Epidemiology.*** (ECH 7003) Initiated and taught theoretical and applied aspects of sampling of populations for veterinary epidemiological research. 6/92 - 9/93.

***Epidemiological Study Design and Literature Evaluation.*** (ECH 7002) Weekly critical discussion of current epidemiological literature. Target group included graduate students and faculty. 4/92 - 9/93

## Continuing professional education instruction

### —International

**Bovine Spongiform Encephalopathy.** 14th Intra-Caribbean Veterinary Public Health Seminar; 5th meeting of the CARICOM Chief Veterinary Officers. Kingston, Jamaica, 11/96.

**Zoonotic Diseases.** New and emerging disease and updates on known zoonotic diseases with potential public health significance and multiple-causation of disease. U.S. Army Veterinary Medicine Continuing Education Conference. Heidelberg, Germany. 9/96.

**Application of epidemiologic concepts in bovine herd health.** Post Graduate Education in Veterinary Science. Utrecht, the Netherlands. Instruction in Dutch. 1/91 - 2/92.

### —Domestic (U.S.).

**Modelling with EGRET.** American Veterinary Medical Association Convention. Veterinary Public Health. 7/95.

**Monitoring cow body condition and decision-making in dairy practice.** 67th Annual Conference for Veterinarians. Baton Rouge, LA. 9/98.

**Investigating herd disease and reduced productivity complaints.** 63rd Annual Veterinary Conference. Baton Rouge, Louisiana. 10/94.

**Update on Equine Endometrial Cysts.** Louisiana Veterinary Medical Association Annual Convention. Shreveport, Louisiana. 3/93.

## GRADUATE STUDENT MENTORING AND DIRECTION

### —Doctoral Degree Major Professor (4 trainees)

**Dr. Simon Dufour.** 8/08 – 8/11. Differentiation of risk factors for bovine intramammary infection incidence, prevalence and elimination. Université de Montréal.

**Dr. Yinmei Li.** 8/01 – 4/06. Derivation and validation of sample size estimation tools for cohort studies of clustered populations with premature withdrawal associated with covariates. Louisiana State University.

**Dr. Kimberly A. Orr.** 10/97 – 4/04. Epidemiologic study of mechanisms of bovine immunodeficiency virus pathogenesis. Fulbright Scholar (Copenhagen, Denmark) 9/00 - 8/01. Graduate International Fellow, National Security Education Program, Academy for Educational Development (Hokkaido, Japan) 10/01 - 5/02. Louisiana State University.

**Dr. Giselle Hosgood-Pagel.** 6/99 - 11/02. Survival estimation in the face of informative censoring using Markov chain models. Louisiana State University.

**—Doctoral Degree Minor Professor (1 trainee)**

**Ms. Erica M. Zablah** (Human Ecology [Nutrition]). Minor professor. 9/97 - 2/00. Effects of dietary l-carnitine on female retired breeder rats fed high protein and high fat. Louisiana State University.

**—Doctoral Degree Committee Member (15 trainees)**

**Dr. Kristen Reyher.** 1/09 – 12/11. The dynamics of bovine intramammary infection. University of Prince Edward Island.

**Dr. Vineet Saini.** 1/07 – 3/11. Antimicrobial use and mammary pathogen antimicrobial resistance in Canadian dairies. University of Calgary.

**Ms. Marianne Allard.** 9/06 – 3/11. Gene expression of *Staphylococcus aureus* during intramammary infection. Université de Sherbrooke.

**Dr. Richard Olde Riekerink.** 10/03 – 04/07. Assessment of the Mastitis Situation in Canada. University of Prince Edward Island.

**Ms. Erika Nomura Guerreiro.** 01/04 – 11/04. (Withdraw) Mise au point et validation de méthodes de dépistage rapide d'antibiotiques non lactamines dans le lait. Université de Montreal.

**Dr. John Dunn.** 1/01 - 5/03. Epidemiology of *E. coli* O157:H7 infection in cattle and deer. Louisiana State University.

**Dr. Mark A. Mitchell.** 9/95 - 5/01. Epidemiology of Salmonella in the Green Iguana (*Iguana iguana*). Louisiana State University.

**Dr. Edmond Kabagambe.** 9/97 - 6/00. A cross-sectional study of prevalence and risk factors for major goat diseases in Eastern and Western Uganda: results and exploration of biases. Louisiana State University.

**Dr. Armando Burgos-Hernandez.** 4/97 - 4/98. Evaluation of the effect of extrinsic and intrinsic factors on the mutagenic potential of aflatoxin-contaminated corn. Louisiana State University.

**Dr. R. Alex Thompson.** 4/95 - 11/98. Association of environmental and climatic factors in the epidemiology of American Visceral Leishmaniasis in Northeast Brazil using remote sensing and geographical information system methods. Louisiana State University.

**Dr. Kimothy Smith.** 8/94 - 3/99. Epidemiology of anthrax in the Kruger National Park, South Africa: genetic diversity and environment. Louisiana State University.

**Dr. Ahmedin Jemal.** 7/94 - 10/97. Identification and quantification of S-[2-(N<sup>1</sup>/<sub>4</sub>-guanyl)ethyl]glutathione DNA adduct in channel catfish (*Ictalurus punctatus*) after exposure to 1,2-dichloroethane. Louisiana State University.

**Dr. Laura Smith.** 10/93 - 5/95. Interaural discrimination and localization of cross-frequency stimuli in normal-hearing and impaired-hearing listeners. Louisiana State University.

**Dr. Stephenie Burk.** Withdrawn. 9/93 - 9/94. Louisiana State University.

**Dr. Abdullahi Kalif.** 9/92 - 12/96. Polymerase chain reaction (PCR) assay for the detection and differentiation of the virulent strains of *Mycoplasma mycoides* subspecies *mycoides* "small colony" type from the vaccine T1 strain in purified DNA and in field samples from Africa. Louisiana State University.

—**Master's Degree Major Professor** (8 trainees)

**Dr. Mario Turner.** 5/10 – 5/12. Association between the molecular epidemiology of *Staphylococcus aureus* virulence factors and persistence in the bovine mammary gland. Université de Montréal.

**Dr. Simon Dufour.** 8/07 – 8/08. Differentiation of risk factors for bovine intramammary infection incidence and prevalence. Université de Montréal.

**Dr. Bich Van Le Thanh.** 8/06 – 12/08. Molecular epidemiology of virulence factors expressed by *Staphylococcus aureus* recovered from chronic intramammary infections of dairy cows. *Thesis not accepted.* Université de Montréal.

**Mr. Étienne Poirier.** 09/06 – 12/08. The effect of intramammary antibiotic infusion at dry-off on antimicrobial resistance of commensal fecal bacteria on Québec dairy farms. Université de Montréal.

**Ms. Belinda Tedder.** Withdrawn. 9/96 - 12/99. Louisiana State University

**Mr. Christopher Paige.** 9/96 - 7/98. Estimation of incidence density of *Mycobacterium leprae* infection within a population of wild nine-banded armadillos (*Dasypus novemcinctus*). Louisiana State University

**Dr. Jorge Maria Baptista.** 8/95 - 7/97. Transplacental transmission of bovine immunodeficiency virus and effects of dam infection and calf *in-utero* infection on neonatal health. Louisiana State University

**Dr. Janis Milliken.** 9/92 - 7/95. Improving the prediction of Thoroughbred stallion fertility by adjusting the live foal percentage statistic for age and foaling status of mares bred. Louisiana State University

—**Master's Degree Minor Professor** (8 trainees)

**Mr. Christian Jacob Lebeau.** 5/06 – 6/09. Comparative genomics and pathogenic properties of *Staphylococcus aureus* strains isolated from intramammary infections that are chronic, or toxic, or refractory to antibiotic therapy. Université de Sherbrooke.

**Dr. Yinmei Li** (Masters of Applied Statistics). 6/00 - 11/01. Sample size estimation for bivariate logistic regression analysis of simple cohort designs. Louisiana State University

**Ms. Dawen Sui** (Masters of Applied Statistics). 1/99 - 3/00. Categorical analysis of teenage pregnancy and births in Louisiana (longitudinal statistical data analysis). Louisiana State University

**Mr. Roderico Estrada** (Masters of Applied Statistics). Withdrawn. 8/9 -12/98. Louisiana State University

**Ms. Demetria Hendersen** (Masters of Applied Statistics). 4/95 - 11/95. Service utilization profiles of adult consumers in Louisiana community mental health centers.

**Ms. Jiang Ying Li** (Masters of Applied Statistics). 10/94 - 7/95. Some aspects of switch-back designs. Louisiana State University

**Ms. Yuju Ma** (Masters of Applied Statistics). 10/94 - 4/95. Non-thesis. Louisiana State University

**Ms. Zhen Zhao** (Masters of Applied Statistics). 2/94 - 12/95. Analysis of growth models for American Alligators in Louisiana. Louisiana State University

—**Master's Degree Advisory Committee Member** (15 trainees)

**Dr. Véronique Fauteaux** (Clinical Science). 7/11 – 7/13. Prediction of violation of the 400,000 cel /ml bulk tank threshold by udder health dynamics in Quebec dairy farms. Université de Montréal.

**Ms. Thi Việt Hang Nguyen** (Pathology and Microbiology). 11/10 – 8/11. Risk factors for post-slaughter antibiotic residues in Vietnamese poultry production. Université de Montréal.

**Dr. Goeffrey Truchetti** (Clinical Science). 9/08 – 10/10. Efficaciousness of prolonged intramammary treatment of bovine clinical mastitis with ceftiofur. Université de Montréal.

**Dr. Marie-Ève Paradis** (Clinical Science). 9/08 – 8/09. Impact of non-clinical *Staphylococcus aureus* or Coagulase-Negative Staphylococci intramammary infection during the first month of lactation on SCC and milk yield in heifers. Université de Montréal.

**Ms. Julie Blouin** (Pathology and Microbiology). 9/02 – 04/05. Characterisation of iron transport systems of *Staphylococcus aureus*. Université de Montréal.

**Dr. Jean-Philippe Roy** (Clinical Science) 8/02 – 03/05. Efficacy of intramammary pirlimycin as a precalving antibiotic treatment for nulliparous heifers. Université de Montréal.

**Ms. Gina Goodier** (Dairy Science). 9/99 - 8/01. Effects of supplemental vitamin E and lasalocid on growth and immune responses of calves challenged with *Eimeria bovis*. Louisiana State University.

**Ms. Malgorzata Mikolajczyk** (Veterinary Microbiology and Parasitology). 3/98 - 7/99. Clinical disease in kittens in response to infection with a virulent strain of *Bartonella henselae* (LSU16) and the development of a feline interferon gamma ELISA. Louisiana State University.

**Mr. Richard Kahn** (Epidemiology and Community Health). 11/97 - 6/99. Screening and treatment for syphilis among prison arrestees: usefulness for surveillance and disease control. Louisiana State University.

**Ms. Rebecca Freeland** (Veterinary Microbiology and Parasitology). 6/97 - 7/98. Examination of the feline humoral immune response to *Bartonella henselae* and identification of *Bartonella* species- and type-specific antigens. Louisiana State University

**Dr. Sovann Sen** (Epidemiology and Community Health). 5/95 - 8/96. Financial and technical aspects of prevention and control of Newcastle disease in Cambodia. Louisiana State University.

**Dr. Ahmedin Jemal** (Epidemiology and Community Health). 1/93 - 8/93. The impact of the pilot tsetse control program on the health and productivity of zebu cattle in the upper Diddessa Valley, western Ethiopia. Louisiana State University.

**Dr. Patricia Rosa** (Epidemiology and Community Health). 1/93 - 7/93. Development and evaluation of serological tests to detect pythiosis in horses. Louisiana State University.

**Dr. Donald Evans** (Epidemiology and Community Health). 1/93 - 4/93. The effect of vaccination on reactor rates in Louisiana *Brucella abortus* infected herds. Louisiana State University.

**Dr. Juan Carlos Gamboa** (Epidemiology and Community Health). 9/92 - 5/96. Louisiana State University.

—**Master's and Doctoral Evaluation Committees** (7 committees)

**Dr. Geoffrey Truchetti** (MSc): Thesis evaluation committee chair. 2010. Université de Montréal.

**Dr. Bart van den Borne** (PhD). Thesis evaluation committee. 2010. Universiteit Utrecht.

**Dr. Julie Arsenault** (PhD). Thesis evaluation committee. 2010. Université de Montréal.

**Dr. Manon Racicot** (PhD): Qualifying examination committee chair. 2009. Université de Montréal.

**Dr. Kimberly MacDonald** (PhD). Qualifying examination committee. 2009. University of Prince Edward Island.

**Dr. Kristen Reyher** (PhD). Qualifying examination committee. 2009. University of Prince Edward Island.

**Ms. Marianne Allard** (PhD). Qualifying examination committee. 2008. Université de Sherbrooke.

—**Summer students** (9 trainees)

**Mr. Josaphat Comeau**. Bayesian estimation of the sensitivity and specificity of bacterial culture and polymerase chain reaction to diagnose intramammary infection. 5/10 – 8/10. Université de Montréal.

**Ms. Amandine Le Plain.** Validation of farmer diagnosed clinical mastitis in a national cohort of dairy farms. 06/09 – 08/09. Université de Montréal.

**Ms. Annie Fréchette.** Systematic review of the quantitative effects of farm level strategies to reduce herd tank somatic cell count. 05/09 – 08/09. Université de Montréal.

**Ms. Valérie Côté.** Effect of IMI antibiotic therapy at dry off on antibiotic resistance in commensal fecal bacteria. 05/06 – 08/06. Université de Montréal.

**Ms. Marielle St-Laurent.** Sampling strategy to estimate the antimicrobial susceptibility profile of the fecal *Escherichia coli* population in dairy cows. 05/06 – 08/06. Université de Montréal.

**Ms. Marilyse Roch.** Veille internationale de la recherche sur la mammite. 05/06 – 08/06. Université de Montréal.

**Mr. Martijn Bouwknecht.** The effect of body condition score in the dry period on production, reproduction and health in cows. Extern from Wageningen Agriculture University, Wageningen, the Netherlands. 5/99 - 8/99. Louisiana State University.

**Mr. Eric Lensen.** The effect of body condition score in the dry period on production, reproduction and health in cows. Extern from Wageningen Agriculture University, Wageningen, the Netherlands. 5/99 - 8/99. Louisiana State University.

**Ms. Ingrid Mevissen.** Effect of chromium on glucose tolerance and insulin sensitivity in early finisher pigs. Extern from Wageningen Agriculture University, Wageningen, the Netherlands. 9/97 - 1/98. Louisiana State University.

#### —Undergraduate research advisor

**Universiteit Utrecht, Faculteit Diergeneeskunde.** Dairy animal health, udder health and general dairy farm management. 5/89 – 5/90.

- **Jetsa Jellesma.**

**Landbouw Universiteit Wageningen.** Statistical modeling approaches, epidemiological design and analytical methods, and dairy farm nutritional management. 5/89 – 8/90.

- **Oscar Jansen**
- **Marjan den Ouden**
- **Emile van Haaren**

#### PRIVATE PRACTICE

Sacramento Animal Medical Group, Elk Grove, Ca. General small animal medicine and surgery. 5/88 - 7/88.

Mueller Animal Hospital, Sacramento, Ca. Small animal emergency medicine. 3/88 - 5/88.

### SERVICE AND SCHOLARLY ACTIVITIES

#### INTERNATIONAL

- Steering committee member, Oat Global. 2015 – present.

- Selection Committee. Canadian Bovine Mastitis and Milk Quality Research Network. 2015-2017.
- Representative. University and Industry Consortium. 2014 – present.
- International Conference on Udder Health and Communication. Utrecht, the Netherlands. October 25-27, 2011. Scientific Committee, responsible for the theme “Infectious pressure.” January 2011 – October 2011.
- International Dairy Federation.
  - Working group to revise guide on good farming practices and hygiene in dairy production. 2010 – present.
  - Working group on mastitis terminology. 2009 – 2010.
  - Action team on mastitis. 2006 – 2011.
  - Standing Committee on Animal Health. 2006 – 2011.
- Peer reviewer. Journal of Dairy Science. 2010 – 2012.
- Peer reviewer. Journal of Foodborne Pathogens and Disease. 2009 – present.
- Preventive Veterinary Medicine.
  - Peer reviewer. 2009 – 2011.
  - Associate Editor. 2006 – 2009.
  - Editorial Advisory Board. 2002 - 2006.
  - External peer-reviewer. 1994 - 2001.
- Evaluation board. Dutch Udder Health Centre. The Netherlands. 2008.
- NMC A global organization for mastitis control and milk quality (National Mastitis Council).
  - Nominating Committee. 2008.
  - Research Committee. 2008 – 2011.
  - International Advisory Committee. 2007 – 2011. Chair 2011.
- External examiner. M. Phil. Thesis. University of the West Indies. School for Graduate Studies and Research. St. Augustine, Trinidad, West Indies. 2007.
- Ad hoc reviewer. USDA Small Business Innovation Research Phase I Program. 2006-07.
- External peer-reviewer. Full professor promotion application in Health Management. University of Prince Edward Island, 2005.
- Organizing committee for the NMC Regional Meeting, Burlington, VT. July, 12-13, 2005.
- External peer-reviewer. Full professor promotion application in Animal Science. McGill University, 2004.
- External peer-reviewer, *Journal of Veterinary Microbiology*. 2001.
- External peer-reviewer, *Journal of Veterinary Internal Medicine*. 2000.
- External Examiner, Phase III and Phase IV large animal medicine and surgery, and theriogenology course, School of Veterinary Medicine, Faculty of Medical Sciences, University of the West Indies, St. Augustine, Trinidad, West Indies. 1999 - 2001.
- Ad hoc reviewer, *Journal of the American Veterinary Medical Association*. 10/94 - present.
- Peer-reviewer, *American Journal of Tropical Medicine and Hygiene*. 1993 - present.

### **NATIONAL/DOMESTIC**

- University of California, Davis, School of Veterinary Medicine. External evaluator, full professor dossier. 2016
- State College Development Association. Board member, 2016 – present
- First Dakota National Bank. Agricultural Advisory Board member, 2016 – present.
- South Dakota Agriculture and Rural Leadership. Board member, 2016 – present
  - Graduate program committee. 2017 – present
  - International experience committee. 2017 – present
- South Dakota Wheat Commission. Commissioner (ex-officio), 2016 – present
- Association of Public and Land-grant Universities. Board of Agriculture Assembly, Experiment Station Section,

- North Central Regional Association, Multistate Research Committee. Member. 2016 – present.
- Experiment Station Committee on Policy, Communications and Marketing Committee, 2014 – present.
- Board member, International Arid Lands Consortium. 2012 – 2016.
- Board member, National Council on Biotechnology. 2011 – 2015.
- Council of Canadian Academies. Assessment reviewer. 2010-2011.
- Natural Sciences and Engineering Research Council of Canada.
  - Strategic Networks Cost:Benefit Analysis (KPRMG). Case study contributor. 2011.
  - Individual Discovery Grant Program. Reviewer. 2010.
- Canadian Association of Veterinary Epidemiology and Preventive Medicine. a) Organizing Committee; b) Scientific Committee. 2010 -- 2010.
- Agriculture and Agri-Food Canada. Scientific program reviewer. 2009.
- International Dairy Federation Canada. Coordinating committee on animal health and wellbeing. 2008 – 2011.
- Canadian Association of Veterinary Epidemiology and Preventive Medicine. Scientific committee. 2008.
- National Liaison Group on Milk Product Quality Committee. Ottawa, ON. Canada. 2005 – 2007.
- Novalait, Inc. Consultation on research directions of the Institut National d'Optique. - 2004
- Coordinator, Workshop on Graduate Education in Veterinary Epidemiology. Sponsored by Association of Teachers of Veterinary Public Health and Preventive Medicine and held in association with the 82nd Conference of Research Workers in Animal Disease. St. Louis, MO. November 11, 2001.
- Research proposal review panel member. Panel 44. Animal Health and Well-being. National Research Initiative Competitive Grants Program, United States Department of Agriculture. 2001 (invited 2002).
- Peer reviewer, Veterinary Epidemiology professional course. College of Veterinary Medicine, University of Tennessee. 2001.
- Coordinator, Symposium on Issues in Graduate Training for Epidemiologists, Association of Teachers of Veterinary Public Health and Preventive Medicine. 11/7/99.
- Editorial board. The Bovine Practitioner. 1999 - present.
- Peer reviewer, Promotion and Tenure Packet, School of Veterinary Medicine, Mississippi State University. 10/99.
- Executive Committee. Association of Teachers of Veterinary Public Health and Preventive Medicine. 11/96 - 9/98.
- Peer reviewer, National Research Initiative Competitive Grants Program. United States Department of Agriculture. 1995 - present.

### **STATE/PROVINCIAL/REGIONAL**

- Board of Directors, South Dakota Crop Improvement Association. 2016 – present
- Board of Directors, Foundation Seedstocks Division, South Dakota State University.
  - Member 11/11 – present
  - Secretary-Treasurer 11/14 – 11/16.
- Member, *ex-officio*, South Dakota Conservation Commission. 2011 – present.
- North Central Canola Research Program. Advisory Committee. 2012.
- Agriculture and Agri-Food Canada. Consultation on strategic promotion of innovative research for Canadian agriculture. Lévis, QC. 2010.
- Valacta, Quebec Center of Expertise on Dairy Production. Health (advisory) Committee, 2007 – present.
- Organizing committee for the Center of Expertise in Bovine Health, Québec. 2005

- Graduate student scientific poster judge. American Society of Microbiology, South Central Branch, 2001 Annual Meeting. October 13-14. Baton Rouge, LA.
- Science Fair. State Finals judge. 4/96, 4/98.

## **UNIVERSITY**

- Chair, Search committee for Director, Division of Management and Economics. South Dakota State University. 2015.
- Member, Search committee for Assistant Vice-President of Security and Safety. South Dakota State University. 2013.
- Chair, Search committee for Head of Department of Veterinary and Biomedical Sciences. South Dakota State University. 2012 – 2013.
- Decentralized budget model development task force. South Dakota State University. 2012.
- Leader, Epidemiology Sector, Department of Pathology and Microbiology, Faculty of Veterinary Medicine. 2011.
- Joint committee for undergraduate instruction Department of Pathology and Microbiology. 2011-2014.
- Faculty Council. Faculty of Veterinary Medicine. 2010 – 2012.
- Research Group Directors Committee (Ad hoc). Faculty of Veterinary Medicine. 2010 – present.
- Mentor for junior faculty (M. Segura), Department of Pathology and Microbiology, Faculty of Veterinary Medicine. 2009 – present.
- Search Committee, Professor of epidemiology. Department of Pathology and Microbiology. 2009.
- Joint Graduate Studies Committee. Department of Pathology and Microbiology. 2007 – 2009.
- Interview committee for candidates for admission to the Faculty of Veterinary Medicine. 2005-2009.
- Organizing committee to establish a center of expertise in ruminant health. 2004-2005.
- Graduate Academic Studies Council, School of Veterinary Medicine. 10/01 – 5/02.
- Cooperative Aquatic Animal Health Research Program Strategic Planning Committee. 10/01 – 5/02.
- Aquatic Pathobiology Research priority group. 8/01- 9/01.
- Assistant professor advisory committee for Dr. John Hawke, assistant professor, Department of Pathobiological Sciences, School of Veterinary Medicine. 6/01 – 5/02.
- Graduate Education Strategic Planning Committee Chair. Department of Pathobiological Sciences, School of Veterinary Medicine. 12/00 - 5/01.
- International Education Committee. Faculty Senate. 8/00 - 5/02.
- Chancellor's Distinguished Lectureship. Host and coordinator for Distinguished Lecturer, Dr. Walter Willett, Harvard School of Public Health. 1999.
- Ad hoc committee to review and recommend research program priorities. School of Veterinary Medicine. 8/99 – 8/00.
- Research Committee. School of Veterinary Medicine. 7/99 – 5/02.
- Council of Policy Committees. Faculty Senate. 8/99 - 7/99.
- Comparative oncology strategic planning group. School of Veterinary Medicine. 3/98 – 2/99.
- Faculty Policy Committee. School of Veterinary Medicine. 7/96-6/99. FPC Chair, 7/99 - 6/00.
- Curriculum Revision Task Force. School of Veterinary Medicine. 5/95-11/95
- Sponsoring faculty advisor, Chapel on the Campus College Ministry. 9/94 - 8/99.
- Chair, Awards and Scholarships Committee, School of Veterinary Medicine. 1994-1996.
- Dean Search Committee. School of Veterinary Medicine. 1994.
- Oncology Course Writing Committee. School of Veterinary Medicine. 1993-1995.

- Clinimetrics Course Writing Committee. School of Veterinary Medicine. 1993-1995.
- Problem-Based Learning Course Writing Committee. School of Veterinary Medicine. 1993-1995.
- Service Committee, University Programmatic Review. School of Veterinary Medicine. 3/94.
- Farm Animal Service Strategic Planning Committee. School of Veterinary Medicine. 9/93-8/94.
- Infectious Disease Control Committee. Veterinary Teaching Hospital and Clinics. 1992-2002.
- Equine Research Committee, School of Veterinary Medicine. 1992.
- Agricultural Interrelations Committee, California Veterinary Medical Association. 1986.
- Curriculum Committee, University of California at Davis, School of Veterinary Medicine. 1984-1985.

### **MEMBERSHIPS and PROFESSIONAL SOCIETY ACTIVITIES**

- American Veterinary Medical Association. 2012 – present
- South Dakota Veterinary Medical Association. 2012 – present
- Canadian Veterinary Medical Association. 2009 – 2011.
- National Mastitis Council. 2002 – present.
- Gamma Sigma Delta Agriculture Honor Society. 2000 - present.
- International Society for Aquatic Animal Epidemiology. 2000 - 2002.
  - Founding committee: 2000.
  - Nominations Committee Chair: 2000 - 2002.
- Society for Tropical Veterinary Medicine. 1995 - 2002.
- Society of Phi Zeta, Tau Chapter. 1994 - present.
- American Dairy Science Association. 1994 - present.
- Louisiana Dairy Fieldman's Association. 1993 - 2002.
- American Association of Bovine Practitioners. 1993 - present.
- Association of Teachers of Veterinary Public Health and Preventive Medicine. 1992 - 2002.
  - Executive board: 1996 - 1998
  - Nominations Committee Chair: 1998 - 2000
  - Graduate education issues identification workshop organizer and facilitator: 1999
  - Graduate Education Workshop Committee Chair: 1999 - 2000.
- International Society for Veterinary Epidemiology and Economics. 1991 - present.
- Netherlands Veterinary Epidemiology and Economics Society. 1988 - 1997.
- American Veterinary Medical Association. 1987 - 2002.
- Alpha Zeta Agriculture Honor Fraternity. 1980 - present.

### **HONORS**

- Journal of Dairy Science, Most cited Physiology and Management paper published in 2008. June, 2011.
- Excellence in Multistate Research; Technical Committee for NE-1028, "Mastitis Resistance to Enhance Dairy Food Safety." Northeastern Regional Association of State Agricultural Experiment Station Directors. July, 2009.
- Induction into Gamma Sigma Delta, The Honor Society of Agriculture. April, 2000.
- Induction into Phi Zeta, Tau Chapter. Honor Society of Veterinary Medicine. March, 1994.
- Merck Award for Teaching Creativity. School of Veterinary Medicine, Louisiana State University. 9/93.

- 1991 Departmental Citation for research performance. Section of Dairy Herd Health, Vakgroep Bedrijfsdiergeneeskunde, Faculteit Diergeneeskunde, (Department of Herd Health and Reproduction, Faculty of Veterinary Medicine), Universiteit Utrecht, .

## PATENTS

- Bacterial vaccine components from *Staphylococcus aureus* and uses thereof. U.S. Patent No.: 8,889,150. Nov. 18, 2014.
- Bacterial vaccine components and uses thereof. U.S. Patent No.: 9,566,322 B2. Feb. 14, 2017.

## PUBLICATIONS

### PEER REVIEWED PUBLICATIONS

Haine, D., Dohoo, I., Scholl, D., Stryhn, H., Dufour, S. Controlling Misclassification Bias in Longitudinal Udder Health Studies. *Prev Vet Med*. Submitted.

Fauteux, V., Bouchard, E., Haine, D., Scholl, D.T., Roy, J.P. Prediction of bulk tank somatic cell count violations based on monthly individual cow somatic cell count data. *J Dairy Sci*. 2015. 98:2312-2321.

Veh, K.A., Klein, R.C., Ster, C., Keefe, G., Lacasse, P., Scholl, D., Roy, J.P., Haine, D., Dufour, S., Talbot, B.G., Ribon, A.O.B., and Malouin, F. Genotypic and phenotypic characterization of *staphylococcus aureus* causing persistent and non-persistent subclinical bovine intramammary-quarter infections during lactation or the dry period. *J Dairy Sci*. 2015. 98:155-168.

Calcutt, M.J., Foecking, M.F., Fry, P.R., Hsieh, H. -Y., Perry, J., Stewart, G.C., Scholl, D.T., Messier, S. and Middleton, J.R. 2014. Draft genome sequence of bovine mastitis isolate *Staphylococcus agnetis* CBMRN 20813338. *Genome Announcements* 2. pii: e00883-14. doi: 10.1128/genomeA.00883-14.

Fauteux, V., Roy, J.-P., Scholl, D.T., and Bouchard, É. Benchmarks for evaluation and comparison of udder health status using monthly individual somatic cell count. *Can Vet J-Rev Vet Can*. 2014. 55:741-748.

Fry, P.R., Middleton, J.R., Dufour, S., Perry, J., Scholl, D., and Dohoo, I. Association of coagulase-negative staphylococcal species, mammary quarter milk somatic cell count, and persistence of intramammary infection in dairy cattle. *J Dairy Sci*. 2014. 97:4876-4885.

Truchetti, G., Bouchard, E., DesCoteaux, L, Scholl, D., and Roy, J.P. Efficacy of extended intramammary ceftiofur therapy against mild to moderate clinical mastitis in Holstein dairy cows: A randomized clinical trial. *Can J Vet Res – Rev Can Rech Vet*. 2014. 78:31-37

Paradis, M.E., Haine, D., Gillespie, B., Oliver, S.P., Messier, S., Comeau, J., and Scholl, D.T. Bayesian estimation of the diagnostic accuracy of a multiplex real time PCR assay and bacteriological culture for 4 common bovine intramammary pathogens. *J Dairy Sci*. 2012. 95:6436-6448.

Saini, V., McClure, J.T., Scholl, D.T., DeVries, T., and Barkema, H.W. Relationship between Antimicrobial Use and Antimicrobial Resistance in Gram-negative Bovine Mastitis pathogens on Canadian Dairy Farms. *J Dairy Sci*. 2013. 96:4965-4976.

Allard, M., Ster, C., Jacob, C.L., Scholl, D., Diarra, M.S., Lacasse, P., and Malouin, F. The expression of a putative exotoxin and an ABC transporter during bovine intramammary infection contributes to the virulence of *Staphylococcus aureus*. *Vet Microbiol*. 2013. 162:761-770.

- Saini, V., McClure, J.T., Léger, D.F., Keefe, G.P., Scholl, D.T., Morck, D.W. and Barkema, H.W. Antimicrobial resistance profiles of common mastitis pathogens on Canadian dairy farms. *J Dairy Sci.* 2012. 95:4319-4332.
- Reyher, K.K., Dohoo, I.R., Scholl, D.T., and Keefe, G.P. Evaluation of minor pathogen intramammary infection, susceptibility parameters and somatic cell counts on the development of new intramammary infections with major mastitis pathogens. *J Dairy Sci.* 2012. 95:3766-3780.
- Dufour, S., Dohoo, I.R., Barkema, H.W., DesCôteaux, L., DeVries, T.J., Reyher, K.K., Roy, J.-P., and Scholl, D.T. Epidemiology of coagulase-negative staphylococci intramammary infection epidemiology in dairy cattle and impact of bacteriological culture misclassification. *J Dairy Sci.* 2012. 95:3110-3124.
- Saini V., McClure, J.T., Scholl, D.T., DeVries, T.J., and Barkema, H.W. Herd-level association between antimicrobial use and antimicrobial resistance in bovine mastitis *Staphylococcus aureus* isolates on Canadian dairy farms. *J of Dairy Sci.* 2012. 95:1921-1929.
- Dufour, S., Dohoo, I.R., Barkema, H.W., DesCoteaux, L., DeVries, T.J., Reyher, K.K., Roy, J.P., and Scholl, D.T. Manageable risk factors associated with the lactational incidence, elimination, and prevalence of *Staphylococcus aureus* intramammary infections in dairy cows. *J Dairy Sci.* 2012. 95:1283-1300.
- Middleton, J.R., Perry, J., Zadoks, R.N. Dufour, S., Paradis, M.E., and Scholl, D.T. 2011. A new look at the importance of coagulase negative staphylococci in bovine mastitis. *J Vet Internal Med.* 25:760-760.
- Saini V., McClure, J.T., Léger, D.F., Dufour, S., Sheldon, A.G., Scholl, D.T., and Barkema, H.W. Antimicrobial use on Canadian dairy farms. *J Dairy Sc.* 2012. 95:1209-1221.
- Reyher, K. K., Dufour, S., Barkema, H. W., DesCôteaux, L., DeVries, T. J., Dohoo, I. R., Keefe, G. P., Roy, J.-P., and Scholl, D. T. The National Cohort of Dairy Farms – A data collection platform for mastitis research in Canada. *J Dairy Sci.* 2011. 94:1616–1626. (100 most cited JDS papers 1/10 – 8/13)
- Olde Riekerink, R.G.M., Barkema, H.W., Scholl, D.T., Poole, D.E. and Kelton D. F. Management practices associated with the bulk milk prevalence of contagious mastitis pathogens in Canadian dairy farms. *Prev Vet Med* 2010. 97:20-28.
- Dufour, S., Fréchette, A., Barkema, H.W., Mussell, A., and Scholl, D.T. Invited review: Impact of udder health management practices on herd somatic cell count. *J Dairy Sci.* 2011. 94:563–579.
- Dohoo, I.R., Smith, J, Andersen, S., Kelton, D., Godden, S., Mastitis Research Workers Conference. Diagnosing intramammary infections: Evaluation of definitions based on a single milk sample. *J Dairy Sci.* 2011. 94:250-261.
- Olde Riekerink, R.G.M., Barkema, H.W., Scholl, D.T., Poole, D.E. and Kelton D. F. Management practices associated with the bulk milk prevalence of contagious mastitis pathogens in Canadian dairy farms. *Prev Vet Med* 2010. 97:20-28.
- Andersen, S., Dohoo, I. R. Olde Riekerink, R. Stryhn, H. and Mastitis Research Workers' Conference. Diagnosing intramammary infections: Evaluating expert opinions on the definition of intramammary infection using conjoint analysis. *J Dairy Sci.* 2010. 93:2966–2975
- Paradis, M.-È., Bouchard, É., Scholl, D.T., Miglior, F., Roy, J.-P. Effect of non-clinical *staphylococcus aureus* or coagulase-negative staphylococci intramammary infection during the first month of lactation on scc, milk yield and culling risk in heifers in a mastitis monitoring program. *J Dairy Sci.* 2010; 93:2989-2997.
- Dufour, S. Barkema, H.W., DesCôteaux, L. DeVries, T.J., Dohoo, I.R., Reyher, K., Roy, J.-P.,

and Scholl, D.T. Development and validation of a bilingual questionnaire for measuring udder health related management practices on dairy farms. *Prev Vet Med.* 2010. 95:74-85

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Roy, J.-P., Du Tremblay, D., DesCôteaux, L.\* Messier, S., Scholl, D. and Bouchard, E. Evaluation of the California Mastitis Test as a precalving treatment selection tool for Holstein heifers. *Vet Microbiol.* 2009. 134:136-142.

Olde Riekerink, R.G.M., Barkema, H.W., Kelton, D. and Scholl, D.T. Incidence Rate of Clinical Mastitis on Canadian Dairy Farms. *J Dairy Sci.* 2008. 91:1366-1377. (Recognized in June 2011 as the physiology and management article published in 2008 most cited between publication and April 15, 2011)

J.-P. Roy, D. Du Tremblay, L. DesCôteaux, S. Messier, D. Scholl, and É. Bouchard. Efficacy of Intramammary Pirlimycin as a Precalving Antibiotic Treatment for Nulliparous Heifers. *Can J Vet Res.* 2007. 71(4):283-91.

Scholl, D., Tomita, G., Messier, S., Bouchard, É, Barkema, H., Lacasse, P., and Zhao, X. Mastitis research for maximum industry benefit: Canadian bovine mastitis research network. *Le Médecin Vétérinaire du Québec.* 2004. 34(1-2):169.

Orr, K.A., Scholl, D.T., and O'Reilly, K.L. Estimation of sensitivity and specificity of two diagnostics tests for bovine immunodeficiency virus using Bayesian techniques. *Prev Vet Med.* 2003. 61:79-89.

Thompson, R.A., Lima, J.W.D., Maguire, J.H., Braud, D.H., and Scholl, D.T. Climatic and demographic determinants of American visceral leishmaniasis in northeastern Brazil using remote sensing technology for environmental categorization of rain and region influences on leishmaniasis. *Am J Trop Med Hyg.* 2002. 67(6):648-655.

Paige, C.F., Scholl, D.T., and Truman, R.W. Prevalence and incidence density of *Mycobacterium leprae* and *Trypanosoma cruzi* infections within a population of wild nine-banded armadillos. *Am J Trop Med Hygiene.* 2002. 67(5):528-532.

Hosgood, G., and Scholl, D.T. Evaluation of age as a risk factor for perianesthetic morbidity and mortality in the cat. *J Vet Emerg Crit Care.* 2002. 12:9-15.

Kahn, R.H., Scholl, D.T., Shane, S.M., and Farley, T.A. Screening for syphilis in arrestees: usefulness for community-wide syphilis surveillance and control. *Sex Transm Dis.* 2002. 29:150-156.

Carruth, A.K., Lund, C.H., and Scholl, D.T. Breast and cervical cancer screening and detection behaviors among Southeast Louisiana farm women. *J Women's Cancer.* 2001. 3:63-69.

Kabagambe, E.K., Elzer, P.H., Geaghan, J.P., Opuda-Asibo, J., Scholl, D.T., and Miller, J.E. Risk factors for *Brucella* seropositivity in goat herds in eastern and western Uganda. *Prev Vet Med.* 2001. 52:91-108.

O'Reilly, K.L., Parr, K., Brown, T., Tedder-Ferguson, B., and Scholl, D.T. Passive antibody to *Bartonella henselae* (LSU16) protects against clinical disease following homologous challenge but does not prevent bacteremia. *Infect Immun.* 2001. 69:1880-1882.

Hosgood, G., and Scholl, D.T. The impact of observations from euthanized animals on survival function estimation. *Prev Vet Med.* 2001. 48:143-154.

Blackmer, J.M., Martin, G.S., Burba, D.J., Scholl, D., and Corley, J. A technique for quantification of exercise in horses in race training using the global positioning system (GPS). *FASEB J.* 16(4):A448-A449, Part 1.

Scholl, D.T., Truax, R.E., Baptista, J.M., Ingawa, K., Orr, K.A., O'Reilly, K.L. and Jenny, B.F. Natural transplacental infection of dairy calves with bovine immunodeficiency virus and estimation of effect on neonatal health. *Prev Vet Med.* 2000. 43:239-252.

Smith, K.L., De Vos, V., Bryden, H.B., Hugh-Jones, M.E., Klevytska, A., Price, L.B., Keim, P., and Scholl, D.T. Meso-scale ecology of anthrax in Southern Africa: a pilot study of diversity and clustering. *J Appl Microbiol.* 1999. 87:204-207.

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Hosgood, G., and Scholl, D.T. Evaluation of age as a risk factor for perianesthetic morbidity and mortality in the dog. *J Vet Emerg Crit Care.* 1998. 8:222-236.

Sen, S., Shane, S.M., Scholl, D.T. Hugh-Jones, M.E., and Gillespie, J.M. Evaluation of alternative strategies to prevent Newcastle disease in Cambodia. *Prev Vet Med.* 1998. 35:283-295.

Gaunt, S.D., Prescott-Mathews, J.S., King, W.W. and Scholl, D.T. Clinical hematology practices at veterinary teaching hospitals and private diagnostic laboratories. *Vet Clin Pathol.* 1995. 24:64-67.

Eilts, B.E., Scholl, D.T., Paccamonti, D.L., Causey, R., Klimczak, J.C., and Corley, J.R. Prevalence of endometrial cysts and their effect on fertility. *Biol Repro Mono.* 1995. 1:527-532.

Scholl, D.T. Book review. Handbook of Sample Size Guidelines for Clinical Trials and Practical Handbook of Sample Size Guidelines for Clinical Trials. *Prev Vet Med.* 1994. 21:110-115.

Scholl, D.T., Farver, T.B., Dobbelaar, P., Brand, A., Brouwer, F., and Maas, M. Repeatability evaluation of a dairy farm management questionnaire. *Prev Vet Med.* 1994. 18:129-143.

Scholl, D.T. Re: "Dietary patterns associated with a low-fat diet in the national health examination follow-up study: Identification of potential confounders for epidemiologic analyses" and "Toward a clearer definition of confounding." (Letter) *Am J Epidemiol.* 1994. 140:582.

Dobbelaar, P., Scholl, D.T., Roosendaal, E.A.M., Schukken, Y.H., and Brand, A. Nutritional factors related to farm milk protein content - an observational study. *Livest Prod Sci.* 1994. 39:253-262.

Scholl, D.T., Dobbelaar, P., Brand, A., Brouwer, F., and Maas, M. Standardized protocol to develop dairy farm management questionnaires for observational studies. *J Dairy Sci.* 1992. 75:615-623.

Scholl, D.T., BonDurant, R.H., and Farver, T.B. Eleven-year analysis of changes in the incidence and recurrence of cystic ovarian disease in a herd of dairy cattle in California. *Am J Vet Res.* 1990. 51:314-319.

Nielen, M., Schukken, Y.H., Scholl, D.T., et al. Twinning in dairy cattle: a study of risk factors and effects. *Theriogenology.* 1989. 32:845-862.

## **BOOK CHAPTERS**

Scholl, D.T. Infectious diseases of dairy animals: Bluetongue, In: Roginski, H., Fuquay, J.W., and Fox, P. (Eds), Encyclopedia of Dairy Sciences. Academic press, London. 2002. Pgs. 792-797.

Scholl, D.T., and Brand, A. Monitoring replacement rearing: case study of perinatal calf death. In: Brand, A., Noordhuizen, J.P.T.M., and Schukken, Y.H., Eds. Herd health and production

management in dairy practice. Wageningen, the Netherlands: Wageningen Press. 1996:143-158.

Van Der Poel, W., and Scholl, D.T. Approach for control of infectious disease in cattle herds. *In*: Brand, A., Noordhuizen, J.P.T.M., and Schukken, Y.H., Eds. Herd health and production management in dairy practice. Wageningen, the Netherlands: Wageningen Press. 1996:473-510.

## **PROCEEDINGS AND ABSTRACTS**

2002 – 2011: Contributions are organised by subject and include peer reviewed and non-peer reviewed summaries and abstracts in proceedings and collective works. Contributions represent presentations to multiple target audiences and progressive iterative enhancement of the scientific work and thinking underlying the presented material.

### **Epidemiology of bovine intramammary infection (21 contributions)**

Reyher, K.K., Dohoo, I.R., and Scholl, D. T. Evaluation of interactions between minor and major mastitis pathogens. SVEPM 2011. *Submitted*

Dufour, S., Dohoo, I., and Scholl, D.T. Management Practices Associated with Acquisition of New *Staphylococcus aureus* Intra-Mammary Infections. NMC. 50th Annual Meeting. Alexandria, Virginia. January 23 – 26, 2011.

Dufour, S., Fréchette, A, and Scholl, D. The Influence of Management Practices on Herd's Somatic Cell Count: a Systematic Review. 5th IDF International Mastitis Conference. March 21-24, 2010. Christchurch, New Zealand.

Dufour, S, Scholl, D. A Validated Questionnaire for Measuring Udder Health Related Management. Practices on Dairy Farms. 5th IDF International Mastitis Conference. March 21-24, 2010. Christchurch, New Zealand.

Dufour, S., Dohoo, I., and Scholl, D. Management practices associated with acquisition of new *Staphylococcus aureus* infections. Annual Scientific Meeting, Canadian Bovine Mastitis Research Network. November 10-1, 2010. Mississauga, ON. Canada.

Dohoo, I., Scholl, D., Stryhn, H., Barkema, H., Keefe, G., Revie, C., Leslie, K., and Kelton, D. Incidence and monitoring of new intramammary infection. Annual Scientific Meeting, Canadian Bovine Mastitis Research Network. November 10-1, 2010. Mississauga, ON. Canada.

Kitts, B. L., S. Dufour, D. T. Scholl, and T. J. DeVries. 2009. Relationship between lying patterns, feeding management, and udder health in lactating dairy cows. *J. Dairy Sci. E-Suppl.* 1 92:387-388.

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Dufour, S., Scholl, D., and Dohoo, I. Améliorer les programmes de contrôle de la mammites subclinique en identifiant les facteurs de risqué relies à l'incidence d'infections intramammaires. 4<sup>e</sup> Colloque international francophone de microbiologie animale. Septembre 21 – 24, 2008. Saint-Hyacinthe, Québec, Canada. P. 96. Poster D-02.

Dufour, S., and Scholl, D. Risk factors associated with sub-clinical IMI incidence on Canadian dairy farms (oral presentation). CAVEPM. May 24 – 25, 2008. Charlottetown, PEI.

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Olde Riekerink, R.G.M., Barkema, H.W., Kelton, D.F., Keefe, G.P., and Scholl, D.T.. Risk factors for herd-level infection of contagious mastitis pathogens on Canadian dairy farms. Proceedings of the 11th International Symposium on Veterinary Epidemiology and Economics, August 7-11, 2006. Cairns, Australia.

Olde Riekerink, R., Barkema, H., Scholl, D., Kelton, D. and Keefe G. Facteurs de risques associés aux agents pathogènes contagieux de la mammites dans les troupeaux laitiers canadiens. Forum Technologique Novalait 2006 - Miser sur l'innovation pour agir face aux changements. Poster abstract. May 30, 2006, Bécancour, Québec.

Olde Riekerink, R.G.M., Barkema, H.W., Scholl, D.T., Kelton, D., and Keefe, G.P. Implementation of recommended mastitis prevention practices and the herd level prevalence of contagious mastitis pathogens on Canadian dairy farms. 4th International IDF Mastitis Conference, June 12-15, 2005, Maastricht, The Netherlands, Pgs. 587-592.

#### **Heifer mastitis** (4 contributions)

Paradis, M.-E., Roy, J.-P., Scholl, D. and Bouchard, E. Impact of a Coagulase-Negative Staphylococci or *Staphylococcus aureus* Intramammary Infection During the First Month of Lactation on SCC, Milk Yield and Culling in Primiparous Cows. 5th IDF International Mastitis Conference. March 21-24, 2010. Christchurch, New Zealand.

Paradis, M.-E., Bouchard, E., Scholl, D., Miglior, F., and Roy, J.-P. Impact of a Coagulase-Negative Staphylococci or *Staphylococcus aureus* Intramammary Infection in Heifers. Annual Scientific Meeting, Canadian Bovine Mastitis Research Network. October 26-28, 2009. Montreal, QC. Canada.

Paradis, M.È., Bouchard, É., Scholl, D., Miglior, F., Roy, J.-P. Impact of a Coagulase-negative Staphylococci or *Staphylococcus aureus* Intramammary Infection during the First Month of Lactation on Somatic Cell Count, Milk Yield, and Culling in Primiparous Cows. September 10-12, 2009 Omaha, NE. p. 209.

Roy, J.-P., Du Tremblay, D., DesCôteaux, L., Messier, S., Scholl, D., and Bouchard, É Evaluation of the California Mastitis Test as a precalving treatment selection tool for Holstein heifers. Heifer Mastitis Conference 2007. June 24-26, 2007. Ghent, Belgium.

**Multi-institutional, multi-disciplinary agriculture research partnership programming:  
Canadian Bovine Mastitis Research Network (22 contributions)**

Poirier, H., Durocher, J, Lacroix, R., Carrier, J, and Scholl, D.T. A coordinated udder health training strategy in Quebec, Canada. International Conference on Udder Health and Communication. October 25-27, 2011. Utrecht, the Netherlands.

Scholl, D., Messier, S., Tomita, G., Barkema, H., DeVries, T., Roy, J.-P., DesCôteaux, L., Bouchard, É., Du Tremblay, D., Reyher, K., Dohoo, I., Keefe, G., Ngeleka, M., and Paradis, M.-E. CXBMRN Core research platform. Annual Scientific Meeting, Canadian Bovine Mastitis Research Network. November 10-1, 2010. Mississauga, ON. Canada.

Revie, C., Dohoo, I., Dufour, S., Keefe, G., and Scholl, D. Mastitis open linked data (MOLD). Annual Scientific Meeting, Canadian Bovine Mastitis Research Network. November 10-1, 2010. Mississauga, ON. Canada.

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### **ORAL PRESENTATIONS AND POSTERS WITHOUT REVIEWED ABSRACT**

Scholl, D.T., Paradis, M.-È., Gillespie, B., Oliver, S.P., Messier, S., and Comeau, J. Diagnostic accuracy of a real-time multiplex PCR assay and bacterial culture for diagnosing intramammary infection. Mastitis Research Workers Conference 2010, November 3-4, Atlanta.

Dufour, S., Dohoo, I.R. and Scholl, D.T. Pratiques de gestions associées à l'apparition d'infections intra-mammaires par *Staphylococcus aureus*. Symposium Bovine Laitiers. 2010. Octobre 28. Drummondville.

Paradis, M.-E., Oliver, S. Dohoo, I., Reyher, K. Roy, J.-P., DesCôteaux, L. , DeVries, T., Barkema, H., Scholl, D., Identification des bactéries responsables de la mammite dans le lait: culture ou PCR? Forum Technologique Novalait. May 13, 2010. Drummondville.

Paradis, M.-È., and Scholl, D. Elaboration of a linked database on the isolates in the CBMRN Mastitis Pathogen Culture Collection. Mastitis Research Workers Conference 2009, November 3 – 5. Chicago.

Scholl, D. Availability and Use of Canadian National Mastitis Research Cohort Data, Isolates and DNA. Mastitis Research Workers Conference 2009, November 3 – 5. Chicago.

Le Thanh, B.V., Lebeau, C.J., Messier, S., Malouin, F., and Scholl, D. Epidemiologic association of *Staphylococcus aureus* virulence markers with intramammary infection chronicity. Canadian Bovine Mastitis Research Network-Mastitis Research Workers Conference Joint Annual Meeting. 2008, November 3 – 6. Toronto.

Reyher, K., Dufour, S. DuTremblay, D., Barkema, H., DesCoteaux, L. DeVries, T. Dohoo, I. Roy, J. P., and Scholl, D. The National Cohort of Dairy Farms – A Research Platform for Mastitis Management, Control and Planning in Canada. Bovine Mastitis Research Network-Mastitis Research Workers Conference Joint Annual Meeting. 2008, November 3 – 6. Toronto.

Malouin, F., Jacob, C.L., Allard, M., Poirier, E., Roy, J.-P., Scholl, D., Diarra, M.S., Ster, C., and Lacasse, P. Detection of virulence-associated genes found in *Staphylococcus aureus* isolates causing chronic bovine mastitis and identification of genes specifically expressed during mastitis. Canadian Bovine Mastitis Research Network-Mastitis Research Workers Conference Joint Annual Meeting. 2008, November 3 – 6. Toronto.

Reyher, K., Dufour, S., Scholl, D. The National Cohort of Dairy Farms – A Research Platform for Mastitis Management, Planning and Control in Canada and Beyond. American Association of Bovine Practitioners. September 25-27, 2008. Charlotte, NC.

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- Del Castillo, J. Mafu, A.A., Hildgen, P., Beaudry, F. and Scholl, D. Mise au point et validation de méthodes de dépistage rapide d'antibiotiques non bêta-lactamines dans le lait. Forum Technologique Novalait 2008, 12 mai 2008. Québec.
- Scholl, D. The Canadian Bovine Mastitis Research Network – Opportunities for Collaboration. Research seminar. Louisiana State University. Baton Rouge. January 18, 2008.
- Scholl, D. Core Research Platform. Canadian Bovine Mastitis Research Network Annual Scientific Meeting. November 12-13, 2007. Montreal.
- Scholl, D. Canadian Bovine Mastitis Research Network Progress Report: Core Research Platform. Mastitis Research Workers Conference. November 7-8, 2007. Minneapolis.
- Scholl, D. Progress and Recent Results from the Canadian Bovine Mastitis Research Network. Les Producteurs laitiers du Canada/Dairy Farmers of Canada, Annual Meeting. Tremblant, Québec. July, 15, 2008.
- Roy, J.-P., Du Tremblay, D., DesCôteaux, L., Messier, S., Scholl, D.. and Bouchard, É Evaluation of the California Mastitis Test as a precalving treatment selection tool for Holstein heifers. Heifer Mastitis Conference 2007. June 24-26, 2007. Ghent, Belgium. Pending. (see also publication in special issue of Vet Microbiol).
- Poirier, É. and Scholl, D. The effect of intramammary antibiotic therapy at dry-off on antibiotic resistance in commensal fecal bacteria – preliminary results. Mastitis Research Workers Conference. November 8-10, 2006, Minneapolis, MN.
- Scholl, D. Réseau de recherche sur la mammite. Forum Technologique Novalait 2006 - Miser sur l'innovation pour agir face aux changements. Bécancour, Québec. 30 Mai, 2006.
- Scholl, D. Antimicrobial Resistance in Fecal Commensal Bacteria Associated with Dry Cow Therapy. Mastitis Research Workers Conference, Chicago, IL. November 2-3, 2005.
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- Scholl, D.T. Le Réseau canadien de recherche sur la mammite bovine. Symposium sur les bovins laitiers. Saint-Hyacinthe, QC. 21 Octobre 2004.
- Scholl, D.T. Canadian Bovine Mastitis Research Network. Dairy Farmers of Ontario Board of Directors. Mississauga, ON. September 29, 2004.
- Scholl, D.T. Mastitis Research for Maximum Industry Benefit: Canadian Bovine Mastitis Research Network. Congrès mondial de buiatrie. Québec, QC. July 11-16, 2004.
- Scholl, D.T. Canadian Bovine Mastitis Research Network. Dairy Farmers of Ontario Research Committee. Mississauga, ON. June 11, 2004.
- Scholl, D.T. Canadian Bovine Mastitis Research Network. Programmes d'analyses des troupeaux laitiers du Québec. St-Anne-de-Bellevue, QC. Juin 7, 2004.
- Scholl, D.T. Réseau canadien de recherche sur la mammite bovine. National Liaison Group on Milk Products Quality. Ottawa, ON. May 18, 2004.
- Scholl, D.T. Canadian Bovine Mastitis Research Network. International Society of Veterinary Epidemiology and Economics. Vina Del Mar, Chile. November 17-21, 2003.

Scholl, D.T. Canadian Bovine Mastitis Research Network. Mastitis Dairy Farmers of Ontario Research Committee. Mississauga, ON. December 2, 2002.

Scholl, D.T. Canadian Bovine Mastitis Research Network. Mastitis Research Workers Conference. Chicago, IL. November 13-14, 2002.

Scholl, D.T. Educating International Students in Veterinary Epidemiology at the Graduate Level. Workshop on Graduate Education in Veterinary Epidemiology. Sponsored by Association of Teachers of Veterinary Public Health and Preventive Medicine and held in association with the 82nd Conference of Research Workers in Animal Disease. St. Louis, MO. November 11, 2001.

Scholl, D.T. Biosecurity. Guernsey Cattle Club Field Day. Pine Grove, Louisiana. June 8, 2001.

Scholl, D.T. Bovine immunodeficiency virus. Louisiana Dairy Fieldman's Association Bi-annual meeting. Lafayette, Louisiana. May 1-2, 1996.

Eilts, B.E., Scholl, D.T., Paccamonti, D.L., Causey, R., Klimczak, J.C., and Corley, J.R. Prevalence and effects of equine endometrial cysts in Louisiana Thoroughbreds. Louisiana Veterinary Medical Association Annual Convention. March, 1993.

Scholl, D.T. Perspectives on Graduate Education. Invited lecture. Department of Microbiology and Parasitology, School of Veterinary Medicine, Louisiana State University. September, 1992.

Scholl, D.T. Repeatability evaluation of items on a dairy farm management questionnaire. Dept. of Herd Health and Reprod. Fac. of Vet. Med., Univ. of Utrecht, Res. Sem. April 22, 1991.

Scholl, D.T. Decision analysis in veterinary medicine: Hormone therapy versus withholding therapy of bovine cystic ovarian disease. Invited lecture. Ctr. for Dec. Anal., Fac. of Med., Erasmus Univ., Rotterdam. Invited Res. Sem. April 5, 1991.

Scholl, D.T., and Dobbelaar, P. Epidemiological investigation of relationships between dairy farm management practices and milk protein content. Dept. of Herd Health and Reprod. Fac. of Vet. Med. Univ. of Utrecht, Research Symposium. April 24, 1989.

Scholl, D.T. Treatment of a goat with severe pulmonary *Corynebacterium pseudotuberculosis*. Vet. Med. Teach. Hosp. University of California, Davis. Oct., 1986.

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Scholl, D.T. Changes in the incidence and recurrence of cystic ovarian disease over an eleven year time period in a California dairy herd. Univ. of Calif., Davis. MPVM thesis. March, 1988.

Salman, M., and Scholl, D.T. The role of mastitis, as measured by the California Mastitis Test, in reproduction performance in two California dairy herds. In-house report, Vet. Med. Coop. Ext., Univ. of Calif., 1983.

### **LARGE MULTI-COLLABORATOR RESEARCH PROGRAM INVOLVEMENT**

Mastitis Resistance to Enhance Dairy Food Safety. Multi-state project NE-1028. Technical committee member, active research collaborator as non-state experiment station participant, organizer and host of joint annual meetings of CBMRN and NE-1028. 2007 to 2012.

Canadian Bovine Mastitis Research Network. (See APPOINTMENTS for details of involvement). 2002 to 2011.

### **GRANTS FUNDED**

Scholl, D.T., Lacasse, P., and Barkema, H.W. Sustainable development: Developing good environmental practices and methodologies to improve critical points in health and breeding limiting cow productivity, mastitis, In: Milk and dairy products: innovation in nutrition/health and

sustainable development. Agriculture and Agri-Food Canada Agri-Science Cluster Program. CDN\$ 950,000 within the Dairy Farmers of Canada proposal for \$12,278,000. 2010-2013.

Scholl, D.T. (Scientific Director), Lacasse, P., and Barkema, H.W. Canadian Bovine Mastitis Research Network – Strategic Research Network Enhancement Initiative. NSERC. CDN \$400,000. 2007-2011.

Scholl, D.T. (Director with 36 collaborators) Canadian Bovine Mastitis Research Network. 2006-2011.

Natural Sciences and Engineering Research Council of Canada. CDN \$6,967,962 (NSERC)

Dairy Farmers of P.E.I., Dairy Farmers of New Brunswick, Dairy Farmers of Nova Scotia, Université de Montréal, Dairy Farmers of Ontario, Alberta Milk, Alberta Agricultural Research Institute, Dairy Farmers of Saskatchewan, Dairy Farmers of Canada, Agriculture and Agri-Food Canada – MII Program, Health Canada, Pfizer Animal Health, and Canadian Dairy Network. CDN \$2,200,957.

Scholl, D.T. The effect of intramammary antimicrobial therapy at dry-off on antimicrobial resistance in commensal fecal *Escherichia coli* bacteria on Quebec dairy farms. CORPAQ. Funded : CDN\$100,000, 2005-2007.

Scholl, D.T. Development and application of epidemiologic tools to study *Streptococcus uberis* intramammary infection of dairy cows. Natural Sciences and Engineering Research Council of Canada. CND\$87,280, 2005-2010.

Scholl, D.T. and 53 collaborators. Appui financier à l'élaboration de proposition de réseau – Réseau mammite bovine. Conseil de recherches en sciences naturelles et en génie du Canada. CND\$17,930. 2004.

Thompson, R.T. and Scholl, D.T. Veterinary Epidemiology, Modeling and Geostatistical Computer Laboratory. Fondation Canadien pour Innovation – Fonds de relève. Projet #8981 Request: CND \$474,649. Funded: Total project, CND \$469,175. FCI, CND\$158,536. Third-party cash and in-kind contributions, CND\$310,639. 2003.

Messier, S., and 26 co-authors. Réseau de recherche sur la mammite bovine. Valorisation-Recherche Québec. CND \$1,395,000. 2002-2005.

Scholl, D.T. and 6 collaborators. L'utilisation des antibiotiques intramammaires avant le vêlage chez les vaches laitières primipares. Pharmacia. CND \$84,000, 2001-2002.

Hosgood, G., and Scholl, D.T. Development of a Markov model for evaluation of health-related survival data from cases of canine lymphoma. VCS Organized Research Funds \$2259. 10/00 - 9/01.

Scholl, D.T., Keenan, M.J, and Greenway, F.L. Chancellor's Distinguished Lectureship: Walter C. Willett MD DrPH. Harvard School of Public Health and Harvard Medical School. Coronary Heart Disease: How much can we prevent by diet and lifestyle? Louisiana State University Chancellor's Office. \$4000. 1/00 - 5/00.

Scholl, D.T., and O'Reilly, K.L. Effect of natural bovine immunodeficiency virus infection on the IgG isotype responses to bovine herpes virus type 1. USDA 1433 Funds. LAV 2173 Requested: \$6,000. \$6,409. 2/99 - 9/99. 20%.

Scholl, D.T. and O'Reilly, K.L. Effects and mechanisms of action of the bovine immunodeficiency-like virus in lactating dairy cattle. Board of Regents Support Fund (LEQSF(1999-01)-RD-A-15). \$52,390. 6/99 - 6/02. 10% and 20% in first and second years, respectively.

Scholl, D.T., and O'Reilly, K.L. Epidemiological validation of a nested polymerase chain reaction assay for identifying natural bovine immunodeficiency virus infection. Louisiana State Univ., School of Vet. Med., USDA 1433 Funds. LAV 2027 \$4,000. 3/97-9/97.

O'Reilly, K.L., and Scholl, D.T. Natural killer cell responses in bovine immunodeficiency virus (BIV)-infected dairy cattle. Louisiana State Univ., School of Vet. Med., USDA 1433 Funds. LAV 2030 \$4,000. 3/97-9/97.

Pinto, C., Eilts, B., Paccamonti, D., Godke, R., and Scholl, D. Effects of pre-freezing induced thermotolerance on post-thawing embryo viability. Departmental Organized Research Program (VCS/SVM). \$1,955. 10/07/96 - 5/7/97.

Smith, K.L., Scholl, D.T. Clinical microbiological survey of a Red-cockaded Woodpecker population. U.S. Fish and Wildlife Service. LSU 8451. , \$500. 9/15/96 - 1/15/97.

Godeny, E.K., and D.T. Scholl. Investigating the Existence of a Bovine Arterivirus. Louisiana State Univ., School of Vet. Med., USDA 1433 Funds. LAV 1935 \$4,000. 2/96 - 9/96.

O'Reilly, K.L., D.T. Scholl, M.G. Groves, L.D. Foil, K.S. Harrington, and J. Wedincamp. The biology of Bartonella henselae infection in the cat reservoir. Academic Research Enhancement Award, Program 95-015. \$104,519. 6/1/96 - 5/31/99.

McClure, J.J., T. Seahorn, R. Beadle, and D.T. Scholl. Correlation of SPAOPD with environmental variables. Louisiana State Univ., School of Vet. Med., Equine Veterinary Research Program. Funded, \$7,998. 6/1/95 - 6/30/96.

Truax, R.E., K.L. O'Reilly, and D.T. Scholl. Isolation of new strains of bovine immunodeficiency virus (BIV) and studies on virus tropism. Louisiana State Univ., School of Vet. Med., USDA 1433 Funds. LAV 1841 \$4,000. 1/95 - 12/95.

O'Reilly, K.L., D.T. Scholl, and R.E. Truax. Interleukin 2 production by CD4(+) T lymphocytes from bovine immunodeficiency virus (BIV) infected and non-infected cattle. Louisiana State Univ., School of Vet. Med., USDA 1433 Funds. LAV 1840 \$4,000. 1/95 - 12/95.

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Milliken, J., B.E. Eilts, and D.T. Scholl. Improving the Prediction of Thoroughbred Stallion Fertility by Adjusting the Live Foal Percentage Statistic for Age and Foaling Status of Mares Bred. American Association of Equine Practitioners 1993 Research Scholarship Program. \$3,400. 12/93 - 12/94.

Milliken, J., B.E. Eilts, and D.T. Scholl. Derivation of an improved fertility parameter for Thoroughbred stallions. Veterinary Clinical Sciences Internal Grant Competition. \$1,000. 11/93 - 6/94.

Scholl, D.T., B.M. Olcott, and K.S. Harrington. Effects of subclinical bovine herpesvirus type 1 infection on productivity of dairy cows. Louisiana State Univ., School of Vet. Med., Competitive Organized Research Program. LAV-1554-SVM. \$6,768. 1/93 - 3/94.

Gamboa, J.C., Miller, J.E., Olcott, B.M., Scholl, D.T., and Nickerson, S.C. Epidemiological study of strategies for mastitis control. Louisiana State Univ., School of Vet. Med., Departmental Organized Research Program, Veterinary Clinical Sciences. \$1,000. 11/92-6/94.