

Curriculum Vitae: David Francis Kelton, DVM, PhD, FCAHS

Current Position: Professor, Department of Population Medicine, University of Guelph
Dairy Farmers of Ontario Research Chair in Dairy Cattle Health
Fellow of the Canadian Academy of Health Sciences

Academic Training and Background:

- 1995 PhD in Epidemiology. University of Guelph, Guelph, ON, Canada.
- 1989 MSc in Theriogenology. University of Guelph, Guelph, ON, Canada.
- 1987 Residency in Large Animal Ambulatory Medicine. Cornell University, Ithaca, NY, USA.
- 1985 Internship in Large Animal Ambulatory Medicine. Cornell University, Ithaca, NY, USA.
- 1984 DVM. Ontario Veterinary College, University of Guelph, Guelph, ON, Canada.

Significant Contributions (4 most recent):

1. For the last 8 years, I have held a Research Chair in Dairy Cattle Health at the University of Guelph funded by Dairy Farmers of Ontario and CanWest Dairy Herd Improvement. In this role, I have conducted important research and training on behalf of dairy farmers, veterinary practitioners and dairy industry stakeholders, addressing numerous issues, including many with paramount importance for sustainability of dairy production in Ontario and Canada.
2. Principle investigator for the first National Dairy Study in Canada, conducted in 2015, in collaboration with colleagues at all 5 Canadian veterinary colleges. Funded by Dairy Farmers of Canada and Agriculture and Agri-food Canada through the Dairy Research Cluster 2 program, this was the first study to benchmark health and productivity across all 10 Canadian provinces.
3. I lead the creation of Dairy at Guelph, bringing together >65 faculty members in 5 colleges at the University of Guelph engaged in research focused on various aspects of the dairy industry, from primary production to human health. I served as its first Director.
4. Nationally, I was a founding member of the Canadian Bovine Mastitis and Milk Quality Research Network and the Canadian Johne's Disease Working Group. I also chair the Canadian chapter of the International Dairy Federation (IDF) Standing Committee on Animal Health and Welfare. Internationally, I represent Canada on the IDF Standing Committee on Animal Health and Welfare, chair the IDF Paratuberculosis Working Group, and recently completed my term as President of the National Mastitis Council, a global organization focused on improving udder health and milk quality.

Recognitions and Awards:

- 2020 Ontario Association of Bovine Practitioners Award of Excellence given to an individual who has made an exceptional contribution to the practice of bovine veterinary medicine in Ontario.
- 2019 JDS 100 Club given in recognition of publishing 100 or more manuscripts in the Journal of Dairy Science, which is the 4th highest ranked journal globally among agriculture, dairy and animal sciences.
- 2017 American Association of Bovine Practitioners Award of Excellence given in recognition of outstanding performance and contribution to veterinary medicine.
- 2011 Bull Travel Fellowship, Ontario Veterinary College. Study travel to Hamilton, New Zealand as part of research collaboration with Dairy NZ
- 2008 Faculty Award for Research Excellence given to recognize a faculty member in the Ontario Veterinary College who has demonstrated excellence in veterinary research, sponsored by Pfizer Animal Health.
- 2004 West Agro, Inc. Award given to a researcher who is a member of the American Dairy Science Association and has demonstrated research leadership in milk quality and mastitis research, sponsored by the American Dairy Science Association.
- 2000 Merck Veterinary Award given in recognition of national leadership in support of veterinary practitioners in Canada, sponsored by the Canadian Veterinary Medical Association.

Selected Peer-Reviewed Publications (275 in total with 7 in press – available upon request):

1. Imada J, Roche S, Bauman C, Kelton D. Management practices associated with Johne's bulk tank milk ELISA positivity. *J Dairy Sci* (Accepted Sept 2022).
2. Imada J, Roche S, Thaivalappil A, Bauman C, Kelton D. Investigating Ontario dairy farmers motivations and barriers to the adoption of biosecurity and Johne's control practices. *J Dairy Sci* (Accepted Nov 2022).
3. Uyama T, Renaud D, Morrison E, McClure J, LeBlanc S, Winder C, de Jong E, McCubbin K, Barkema H, Dufour S, Sanchez J, Heider L, Kelton D. Associations of calf management practices with antimicrobial use in Canadian dairy calves. *J Dairy Sci* Nov 2022 105:9084-9097.

4. Imada J, Roche S, Bauman C, Miltenburg S, Budd R, Beattie K, Kelton D. Descriptive analysis of the changes in Johne's Disease management practices on Ontario dairy farms through repeat risk assessment. *J Dairy Sci* Nov 2022 105:9107-9118.
5. Uyama T, Renaud DL, LeBlanc SJ, McClure JT, Slavic D, Winder CB, Kelton DF. Observational study on antimicrobial resistance in *E. coli* and *Salmonella* isolates from Ontario calf samples submitted to a diagnostic laboratory from 2007 to 2020. *Can Vet J* March 2022 63:260-268.
6. Renaud DL, Savor N, Gordon J, Kelton DF, Miltenburg C. Buyer Beware! Disease testing newly arrived cattle to dairy farms in Ontario. *Can Vet J* March 2022 63:297-300.
7. Roche S, Kelton D, Meehan M, Von Massow M, Jones-Bitton A. Exploring Ontario dairy producer and veterinarian perceptions of barriers and motivators to adopting on-farm management practices for Johne's Disease control. *J Dairy Sci.* Apr 2019 102:4476-4488.
8. Corbett C, Ali Naqvi S, Bauman CA, De Buck J, Orsel K, Uehlinger F, Kelton DF, Barkema HW. Prevalence of *Mycobacterium avium* subsp. *paratuberculosis* infections in Canadian dairy herds. *J Dairy Sci.* Oct 2018; 101:11218-28.
9. Barkema HW, Orsel K, Nielsen SS, Koets AP, Rutten VPMG, Bannantine JP, Keefe GP, Kelton DF, Wells SJ, Whittington RJ, Mackintosh CG, Manning EJ, Weber MF, Heuer C, Forde TL, Ritter C, Roche S, Corbett CS, Wolf R, Griebel PJ, Kastelic JP, DeBuck JM. Knowledge gaps that hamper prevention and control of *Mycobacterium avium* subspecies *paratuberculosis* infection. *Transb Emerg Dis.* May 2018; 65:125-48.
10. Bauman C, Barkema H, Dubuc J, Keefe G, Kelton D. Canadian National Dairy Study: herd-level milk quality. *J Dairy Sci.* 2018 Mar; 101:2679-91.
11. Ritter C*, Kwong G, Wolf R, Pickel C, Slomp M, Flaig J, Mason S, Adams C, Kelton D, Jansen J, De Buck J, Barkema H. Factors associated with participation of Alberta dairy farmers in a voluntary, management-based Johne's disease control program. *J Dairy Sci.* 2015 Sept 98(11):7831-45.
12. Pieper L, Sorge U, DeVries T, Godkin A, Lissemore K, Kelton D. Evaluation of the Johne's disease Risk Assessment and Management Plan on dairy farms in Ontario, Canada. *J Dairy Sci.* 2015 Aug;98:6792-800.