



Curriculum Vitae

Daniel Hurnik

2014

ACADEMIC QUALIFICATIONS:

DEGREE	UNIVERSITY	YEAR	SPECIALTY
Master of Science	University of Prince Edward Island	1991	Epidemiology
Doctor of Veterinary Medicine	University of Guelph	1986	

EMPLOYMENT HISTORY:

Currently	University of Prince Edward Island, Interim Dean,
2012 to 2014	University of Prince Edward Island, Department Chair for Departments of Health Management and Companion Animals Professor - Swine Health Management,
1999 to 2012	University of Prince Edward Island, Industry Chair for Swine Research, Associate Professor Department of Health Management
1994 - 1999	University of Prince Edward Island, Associate Professor - Swine Health Management, Department of Health Management.
1991 - 1994	University of Prince Edward Island, Assistant Professor - Swine Health Management, Department of Health Management.
1989 - 1991	University of Prince Edward Island, Lecturer - Swine Health management, Department of Health Management.
1986 - 1989	Private Practice - Food Animal Medicine

SIGNIFICANT MILESTONES:

- As a **teacher**, and overseeing the teaching of clinical swine medicine since 1990, I am particularly proud that AVC continues to rank above the average of other Veterinary Schools in the instruction of swine health as measured by our student's results in the NAVLE exams.
- Since 2012, I have been asked to take a more direct role in University administrative activities, notably chair of two departments, and in 2014 as **Interim Dean**.
- Recipient of the **2014 B.W. Kennedy Memorial Award** by the Canadian Centre for Swine Improvement, www.ccsi.ca, for significant contribution to the Canadian Swine industry.
- Recipient of the **2012 Carl Block Award**. Given by the Canadian Animal Health Coalition <http://www.animalhealth.ca>, this award was named in honour of Carl Block, a cattleman whose tireless dedication to Canadian agriculture and commitment to animal health will long be remembered.
- Director of the **Canadian Swine Health Board** www.swinehealth.ca until 2012. The Canadian Swine Health Board (CSHB) is a national organization with the mission to provide leadership and coordination in support of the management of the health of the Canadian swine herd.
- Helped found of the **Atlantic Swine Research Partnership Inc.** www.asrp.ca A non-profit Swine Research and Development company based on Prince Edward Island, that carried out strategic research on behalf of the Atlantic Canadian Swine Industry. Achievements of the ASRP are:
 - ASRP Research has led to scientific basis for the national swine traceability program and legislation currently being implemented in Canada.
 - Research has led to the establishment of two biotech companies on Prince Edward Island:
Progressive Bioactives Inc, Charlottetown, - sold to Stirling Products Ltd.
Chemaphor Inc / Avivagen, Charlottetown, - currently active.
- Recipient of the **2002 PEI Pork Industry Contribution Award**. Research showing PEI has a unique swine health status compared to other regions in Canada formed the scientific basis for Provincial legislation that protects Prince Edward Island from the entry of key swine diseases.
- Establishment of the **Industry Chair for Swine Research** in 1999, an Industry sponsored research position to lead industry development for the commercial pork producers on Prince Edward Island.
- Recipient of the **1999 Canadian Veterinary Medical Association Shering-Plough Prize** for Advancement of Large Animal Medicine and Surgery.

PROFESSIONAL INVOLVEMENT

- **Technical consultant to the Canadian Swine Health Board**, notable outcomes are:

- As chair of the Long-term Risk Management Pillar, guided the development of the Canadian Swine Health Intelligence Network. (CSHIN)
- Co-author National Swine Farm-level Biosecurity Standard.
<http://www.swinehealth.ca/documents/National%20Swine%20Farm-Level%20Biosecurity%20Standard.pdf>

- **Technical consultant to the World Bank**, notable projects are:

- Veterinary Consultant to the Republic of Georgia to help investigate the African Swine Fever outbreak 2007/2008,
- Veterinary Consultant to the Republic of Armenia to develop plans to manage African Swine Fever outbreak 2007,
- Co-Author for a Biosecurity Guide written for the FAO and OIE, 2009
<http://www.fao.org/docrep/012/i1435e/i1435e00.pdf>

- **CEO Atlantic Swine Research Partnership Inc 2002-2008**. Duties included financial oversight of swine research projects, and management of swine production facilities.

<http://www.aphin.upei.ca/asrp/>

- **Technical advisor to Federal Porcine Circovirus Associated Diseases Task Team 2006-2007**

- **Technical Committee member, National Swine Traceability Program, Canadian Pork Council**. This committee has designed and implemented a National Swine Traceability program in partnership with CFIA.

- **Technical Committee member**, and Canadian Veterinary Medical Association representative on **Quality Assurance Program (CQA), Canadian Pork Council**. CQA™ is Canada's on farm HACCP based food safety program for Swine.

- **Director**, Canadian Centre for Swine Improvement (CCSI). The CCSI manages Canada's national genetic evaluation program for swine.

- **Veterinary Consultant**, International Genetics PEI Ltd. (IGP) and International Genetics Ltd (IGL). IGP and IGL together are an international marketing company selling Canadian swine genetics and expertise around the world. Customer support and consultation is provided in Mexico, Eastern and Central Europe, China, Latin America and Taiwan. International Genetics PEI Ltd is currently one of the largest supplier of purebred breeding stock to Russia.

- **Veterinary Consultant**, to commercial swine farms, breeders, packers, both in Canada and Internationally

SELECTED RECENT RELEVANT PUBLICATIONS & PRESENTATIONS

Hurnik D. *General Principles of Biosecurity*, Proceedings of the: Pig Branch of the Chinese Association of Animal and Veterinary Science 2014 Conference, Wuhan China.

Thakur KK, Revie CW, **Hurnik D**, Poljak Z, Sanchez J. *Analysis of Swine Movement in Four Canadian Regions: Network Structure and Implications for Disease Spread*. Transbound Emerg Dis. 2014 Apr 17. doi: 10.1111/tbed.12225. [Epub ahead of print]

C Byra, J Berezowski, **D Hurnik**, T Herntier, *Utilizing the Canadian Swine Health Intelligence Network during the Porcine Epidemic Diarrhea Outbreak*, Proc, International Pig Veterinary Society, Cancun Mexico 2014.

C Byra, J Berezowski, E Brockhoff, **D Hurnik**, C Klopfenstein, H Kloeze, L Bergeron, G Charbonneau, F Cardinal, T Herntier, Iqbal Jamal. *Canadian Swine Health Intelligence Network*, Proc, International Pig Veterinary Society, Cancun Mexico 2014.

Marianne Parent, **Daniel Hurnik**, Jette Christiansen, Raphael Vanderstichel *Trichinella: The role of Swine Practitioners*. Proc Amer Assoc Swine Vet. 2014 Dallas TX.

Christina Yamazaki, **Daniel Hurnik**, *Novel Use of DNA traceback for genetic selection in the Canadian Swine Industry* The Proc Amer Assoc Swine Vet. 2014 Dallas TX.

Vanderstichel R, Christensen J, Stryhn H, **Hurnik D**. *Standards for reporting surveillance information in freedom from infection models by example of Trichinella in Canadian market hogs*. Prev Vet Med. 2013 Aug 1;111(1-2):176-80.

Hurnik D. *A Swine Veterinary Network for Practitioners*. Proc. World Veterinary Congress, Prague 2013.

J. Berezowski, C Byra, E Brockhoff, **D Hurnik**, C Klopfenstein H. Kloeze, *Canadian Swine Health Intelligence Network*. Proc. International Pig Veterinary Society 2012, Korea.

Budu-Amoako E, Greenwood SJ, Dixon BR, Barkema HW, **Hurnik D**, Estey C, McClure JT. *Occurrence of Giardia and Cryptosporidium in pigs on Prince Edward Island, Canada*. Vet Parasitol. 2012 Feb 28;184(1):18-24.

Daniel Hurnik, Tim W. Seeber Lucie Verdon, *Seasonal Influenza Pilot Project for Pork Producers on Prince Edward Island, Canada*. 2012 GFR One Health Summit, Davos Switzerland.

Daniel Hurnik, *The regulatory and CQA aspects guiding analgesic and anaesthetic use in Swine Practice*. Proc. of Western Canadian Assoc. of Swine Veterinarians, 2011, Saskatoon.

Daniel Hurnik, Janusz Daroszewski, Graham Burton, *Determination of the effect of a Fully Oxidized β -Carotene dietary supplement on the immune system and growth performance of weaned pigs* Proc Amer Assoc Swine Vet. 2011 Phoenix Arizona.

François Madec, **Daniel Hurnik**, Vincent Porphyre, Eric Cardinale. *Good practices for biosecurity in the pig sector – Issues and options in developing and transition countries*. FAO Animal Production and Health Paper No. 169. Rome, FAO. , 2010

Hurnik D *Evaluation of the Control vs Eradication of Endemic Diseases of Swine* Proc. Xº AVEC2010, Congreso de la Asociación Latinoamericana de Veterinarios Especialistas en Cerdos, Mendoza, Argentina, August 2010.

Letellier A, Beauchamp G, Guévremont E, D'Allaire S, **Hurnik D**, Quessy S *factors at slaughter associated with presence of Salmonella on hog carcasses in Canada*. J Food Prot. 2009 Nov;72(11): 2326-31.

Christensen J, MacNab B, Stryhn H, Dohoo I, **Hurnik D**, Kellar J. *Description of Empirical Movement data from Canadian Swine Herd with an application to a disease spread simulation model*. Prev. Vet. Med. 2008 Feb 1;83(2):170-85.

Jackson N, **Hurnik D**, *An investigation into the impact of age, sex, breed, laboratory, test date, and farm, on the specificity of a PRRS Virus ELISA assay*. Proc. American Assoc. Swine Veterinarians 2007 Orlando, Fla.

Haruna J, Hanna P, **Hurnik D**, Ikede B, Miller L, Yason C. *The role of immunostimulation in the development of postweaning multisystemic wasting syndrome in pigs under field conditions*. Can J Vet Res. 2006 Oct;70(4):269-76.

Hurnik D, P Mathur, J Phipps *In Vivo Testing of Immune Capacity of Canadian Purebred Swine* . Proc. Inter Pig Veterinary Society 2006. P38-26 p 593, Copenhagen Denmark.

Hurnik D, T Lank, P Spencer, S Patelakis, *The Immunomodulatory effects of Yeast Beta Glucan on Pregnant and Lactating Sows*. Inter. Pig Veterinary Society 2006. P42-09 p 649 Copenhagen Denmark.

Hurnik D, D Haine, A Ravel, I Robertson, W Hooper, F Bedard E Lowe, *Results of a National Swine Identification and Traceability Pilot Study in Canada*. Proc. Inter Pig Veterinary Society 2006. O65-05 p 307 Copenhagen Denmark.

Hurnik D, *Antibiotic Resistance: Implication on Genetic Improvement and Disease Resistance*, 30th Annual National Swine Improvement Federation Conference. Ottawa. Dec 2005.

Hurnik D, *Traceability Options for The Canadian Pork Industry*, London Swine Conference – Production at the Leading Edge, 6-7 April 2005.

Hurnik D, *Investigations Into Optimal Washing And Disinfection Techniques For Pig Pens*. London Swine Conference – Production at the Leading Edge 6-7 April 2005.

Hurnik D, S Whyte, T Van Lunen, J MacLeod, , A Campbell , *Production And Economic Differences Between Pigs Raised In A Deep Bedded System Vs On A Fully Slatted Floor* Proc. Inter Pig Veterinary Society 2004 Hamburg, DE.

Hurnik D, R. Vanderstichel P. Hanna J. Haruna S. Patelakis *A Pilot Study Comparing Purified Beta Glucan To Commercial Vaccines And Adjuvants In Weaned Pigs* Proc. Inter Pig Veterinary Society 2005 Proc. Inter Pig Veterinary Society 2004 Hamburg, DE.

Hurnik D, *Control and Eradication of Mycoplasma Hyopneumoniae Infection in Pig Herds*. Proceedings Canadian Swine Genetics Symposium, Taipei, Taiwan 2004.

Hurnik D, *Disease Transmission Via Semen*. Proc Canadian Centre for Swine Improvement Research Symposium 2004. Quebec, QC.

Hurnik Daniel, Foote Kim, Vanderstichel Raphaël, Phipps Jenny, Patelakis Shane, VanLunen Ted *A description of the effect of a purified Beta-Glucan extract on the antibody response to PRRS Virus vaccination and to lymphocyte proliferation of weaned pigs* Proc. American Assoc Swine Veterinarians 2004, Des Moines IA.

MacDonald Kimberley, **Hurnik Daniel**, *A DNA technology trial to demonstrate the identity preservation and traceability of pigs from farm to retail*. Proc. American Assoc Swine Veterinarians 2004, Des Moines IA.

A.J. Campbell, T.A. Van Lunen, J.A. MacLeod, **D. Hurnik** and G. Linkletter *Design and performance of a swine finishing barn for production and manure research* Volume 45 2003 CANADIAN BIOSYSTEMS ENGINEERING

Morris, S., Loftus, R., Scott, C., **Hurnik, D.** et al (2003) *A Canadian DNA Traceability Trial to Enhance the Identity Preservation and Control of Transgenic Livestock*. Invited speaker to the IAEF 1st International Symposium on Recent Advances in Food Analysis. November 5-7, 2003. Prague, Czech Republic.

Morris, S., Loftus, R., Scott, C., **Hurnik, D.** et al (2003) *A Canadian DNA Traceability Trial to Enhance the Identity Preservation and Control of Transgenic Livestock*. Invited speaker to the Agricultural Institution of Canada Foundation's Annual Conference – From the Farm Gate to the Dinner Plate. November 2-4, 2003, Edmonton, Alberta, Canada.

T. A. Van Lunen, **D. Hurnik**, and V. Jebelian, *Growth performance, carcass quality, meat quality and fatty acid composition of pigs fed diets containing extruded soybeans* Canadian Journal of Animal Science Volume 83, Number 1, March 2003 45-52.

Vanderstichel R, **Hurnik D**, *The Effect Of A Commercial Vaccine And Adjuvants On The Prevalence Of Post-Weaning Multisystemic Wasting Syndrome And Related Circovirus Lesions In A Finishing Barn*. Proc. American Assoc Swine Veterinarians 2003 Kissimmee FLA.

Hurnik D, *Cross-farm comparisons using carcass data*. Proc. AD Leman Swine Conference. 2002 St. Paul MN.

Hurnik D, *Prudent Antimicrobial Use in Swine Practice*. Proc. Canadian Veterinary Medical Association Annual Meeting 2002, Halifax NS.

Hurnik D, *Control and Eradication of Mycoplasma Hyopneumoniae Infection in Pig Herds*. Proceedings Pfizer Swine Production Conference, 2001 Merida, Mexico.

Hurnik D, *Control of Porcine Respiratory and Reproductive Syndrome in Commercial Herds*, Proceedings Pfizer Swine Production Conference, 2001 Merida Mexico.

Hariharan H, Cepica A, Qian B, Heaney S, **Hurnik D**, *Toxigenic and drug resistance properties of porcine Pasteurella multocida isolates from Prince Edward Island*. Can Vet J. 2000 Oct;41(10):7