

NICHOLAS HUME OGDEN

Centre for Foodborne, Environmental and Zoonotic Infectious Diseases, Public Health Agency of Canada.

Associate professor, Faculté de médecine vétérinaire, Université de Montréal

PROFESSIONAL PREPARATION

University of Liverpool, UK.	Veterinary Science	BVSc 1983
University of Oxford, UK.	Zoology	DPhil 1996
Université de Montréal, QC	Epidemiology & Mathematical Modelling	2003-2006

APPOINTMENTS

1983-1992	Frame & Swift, Veterinary Surgeons	Partner
1996-2002	University of Liverpool	Assistant professor
2006-present	Public Health Agency of Canada	Veterinary research scientist

PUBLICATIONS & PRESENTATIONS

5 Related Publications

- Ogden, N.H.**, Bigras-Poulin, M., Hanincová, K., Maarouf, A., O’Callaghan, C.J., & Kurtenbach, K. (2008). Effects of climate change on tick phenology and their influence on fitness of pathogens transmitted by the tick *Ixodes scapularis*. *J Theor Biol*, 254, 621-632.
- Ogden, N.H.**, Bigras-Poulin, M., O’Callaghan, C.J., Barker, I.K., Kurtenbach, K., et al. (2007). Tick seasonality, host infection dynamics and fitness of *Ixodes scapularis*-borne pathogens. *Parasitol* 134, 209-227.
- Ogden, N.H.**, Maarouf, A., Barker, I.K., Bigras-Poulin, M., Lindsay, L.R., et al. (2006). Projections for range expansion of the Lyme disease vector *Ixodes scapularis*, in response to climate change. *Intl J Parasitol* 36, 63-70.
- Ogden, N.H.**, Bigras-Poulin, O’Callaghan, C.J., M., Barker, I.K., Lindsay, et al. (2005). A dynamic population model to investigate effects of climate on geographic range and seasonality of the tick *Ixodes scapularis*. *Intl J Parasitol* 35, 375-389.
- Ogden, N.H.**, Lindsay, L.R., Charron, D., Beauchamp, G., Maarouf, et al. (2004). Investigation of the relationships between temperature and development rates of the tick *Ixodes scapularis* (Acari: Ixodidae) in the laboratory and field. *J Med Entomol*, 41, 622-633.

5 Other Significant Publications

- Ogden, N.H.**, St-Onge, L., Barker, I.K., Brazeau, S., Bigras-Poulin, M., Charron, D.F., et al. (2008) Risk maps for range expansion of the Lyme disease vector, *Ixodes scapularis*, in Canada now and with climate change. *Intl J Health Geograph*. 7, 24
- Ogden, N.H.**, Lindsay, R.L., Hanincová, K., Barker, I.K., Bigras-Poulin, M., et al. (2008). The role of migratory birds in introduction and range expansion of *Ixodes scapularis* ticks, and *Borrelia burgdorferi* and *Anaplasma phagocytophilum* in Canada. *App Environ Microbiol* 74, 1780-1790
- Hanincová K, **Ogden NH**, Diuk-Wasser M, Pappas CJ, Iyer R, Fish D, Schwartz I, Kurtenbach K. (2008). Fitness variation of *Borrelia burgdorferi* sensu stricto strains in mice. *App Environ Microbiol* 74, 153-157.
- Ogden, N.H.**, Barker, I.K., Beauchamp, G., Brazeau, S., Charron, et al. (2006). Investigation of ground level and remote-sensed data for habitat classification and prediction of survival of *Ixodes scapularis* ticks in habitats of southeastern Canada. *J Med Entomol* 43, 403-414.
- Ogden, N.H.**, Casey, A.N.J., French, N.P., Adams, J.D.W. & Woldehiwet, Z. (2002) Field evidence for density-dependent facilitation amongst *Ixodes ricinus* ticks feeding on sheep. *Parasitol* 124, 117-125.

SYNERGISTIC ACTIVITIES

Director of GREZOSP (Groupe de recherche en épidémiologie des zoonoses et santé publique).

GREZOSP is a collaboration between the epidemiology group of the veterinary faculty of Université de Montréal and the Public Health Agency of Canada. It aims to foster research into the ecology and epidemiology of zoonotic diseases and their vectors from a public health aspect. The group particularly specializes in the integration of spatial epidemiology, mathematical modeling and GIS to understand the spatial spread and dispersion of infectious diseases.

Membership of national Canadian public health committees. These committees (National Non-enteric Zoonotic Diseases Committee, National Committee on Lyme disease and other tick-borne zoonoses, National Rabies Committee, National Committee on Arctic Zoonoses) are the principal foci for exchange of information and integration of federal and provincial/territorial public health activities, reporting, and responses concerning zoonotic disease threats. I am co-chair of two committees: National Committee on Lyme disease and other tick-borne zoonoses, National Committee on Arctic Zoonoses

Member of Federal Biodiversity Information Partnership working group. This is a federal working group that aims to bring funding to the gathering, synthesis and accessibility of taxonomic and biodiversity information for the health, agriculture, natural resources and industry sectors.

National consensus conference on Lyme disease, Toronto, 2006. Member of the organizing committee.

COLLABORATORS & OTHER AFFILIATIONS

Collaborators and Co-Editors

Harvey Artsob, National Microbiology Laboratory, Winnipeg, MB, Canada
Robbin Lindsay, National Microbiology Laboratory, Winnipeg, MB, Canada
Ian K. Barker, Ontario Veterinary College, University of Guelph, ON, Canada
Chris O'Callaghan, Queens University, ON, Canada
Charles Francis, Migratory bird populations division, Environment Canada
Audrey Heagy, Bird Studies Canada
Sarah Randolph, University of Oxford, UK
Klaus Kurtenbach, University of Bath UK
Richard Birtles, University of Liverpool, UK
Xavier Lambin, University of Aberdeen, UK
Benoît Lévesque, Université de Laval, QC, Canada
Éric Dewailly, Université de Laval, QC, Canada
Brian Ward, McGill University, QC Canada

Graduate and Postdoctoral Advisor/Sponsor

Catherine Bouchard, Université de Montréal (Thesis Advisor) 2008-2012
Audrey Simon, Université de Montréal (Thesis Advisor) 2007-2011
Kevin Bown, University of Liverpool (Post-doctoral Advisor) 2000-2007
Abigail Casey, University of Liverpool (Post-doctoral Advisor) 2000-2002
John Adams, University of Liverpool (Post-doctoral Advisor) 1998-2000
Esron Karimuribo, University of Reading (Thesis Advisor) 1998-2002
Emmanuel Swai, University of Reading (Thesis Advisor) 1998-2002