# Ynte Hein Schukken

GD Animal Health
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## PRESENT POSITION

Chief Executive Officer, GD Animal Health
Professor of Management of Farm Animal Health, Wageningen University
Professor of Farm Animal Disease Control Programs, Utrecht University.
Professor-emeritus of Veterinary Epidemiology and Herd Health, Cornell University

## EDUCATION

1985 DVM, University of Utrecht, Utrecht, The Netherlands
1987 M.Sc., Cornell University – thesis title:
*Epidemiology of and the relationship between retained placenta and Mastitis*
*1990* Ph.D., University of Utrecht – thesis title:
*Epidemiological studies on clinical mastitis in herds with a low bulk milk somatic cell count*
2015 Master of Business Administration, Nyenrode University, Breukelen, the Netherlands.

## PROFESSIONAL EXPERIENCE

| | |
|---|---|
| 1985 - 1986 | Veterinary practitioner |
| 1987 - 1989 | Assistant Veterinarian, Department of Herd health and Reproduction, Utrecht University |
| 1989 - 1991 | Assistant Professor ('Universitair Docent'), Department of Herd Health and Reproduction, Utrecht University |
| 1991 - 1992 | Post-doctoral scientist, Department of Population Medicine, University of Guelph, Canada |
| 1991 - 1999 | Associate Professor ('Universitair Hoofddocent'), Department of Herd Health and Reproduction, University of Utrecht. |
| 1999 - current | Director of Quality Milk Production Services, Cornell University, Ithaca, NY |
| 1999 - 2002 | Associate Professor, Department of Population Medicine and Diagnostic Sciences, College of Veterinary Medicine, Cornell University, Ithaca, NY |
| 2002 - 2003 | Associate Professor with indefinite tenure, Cornell University, Ithaca, NY |
| 2003 – current | Full Professor, Department of Population Medicine and Diagnostic Sciences, College of Veterinary Medicine, Cornell University, Ithaca, NY |
| 2013-current | Chief Scientific Officer, GD Animal Health |

## PROFESSIONAL TRAINING

Epidemiology summer program, Boston 1986
Regression analysis for dependent responses, Carleton University 1991
S-plus, regression and survival analysis, Pennsylvania 1996
Management of technical professionals, Center for Advanced Learning, Amsterdam 1998
Random effect models for longitudinal data and correlated responses, Leiden University 1998
Cornell University Leadership Development program, Cornell University, 2000

## SPECIALTY CERTIFICATION

Bovine Specialist (Royal College of Dutch Veterinarians)
Epidemiologist (Dutch National Science Foundation)

## SERVICE

Member of the Board of the College of Veterinary Medicine Utrecht NL 1983
Member of the Council of the College of Veterinary Medicine Utrecht NL 1981-1982
Information Technology Committee of the College of Veterinary Medicine Utrecht NL 1988-1990
LIMS selection committee, Cornell University 2001.
Blue ribbon panel on Bovine Curriculum at Cornell Veterinary Medicine, 2003.
College Research Council, 2003-current.
USDA-NRI panel member, 2007.
Faculty Committee on Program Review, 2008- current

## EDITORIAL BOARDS

| | |
|---|---|
| Cornell Veterinarian | 1998 - 2002 |
| Veterinary record - Dutch edition | 1995 - 2000 |
| Preventive Veterinary Medicine | 1995 - 2007 |
| Associate Editor | 2004 - 2006 |
| Journal of Dairy Science | 1997 - 2002 |
| Veterinary Research | 2000 - 2010 |

## MEMBERSHIPS

American Dairy Science Association
Association of Veterinary Laboratory Diagnosticians
Society for Epidemiologic Research
New York State Veterinary Society
American Association of Bovine Practitioners

## TEACHING

I enjoy teaching and enjoy to work with students in courses. Teaching has always been an essential part of my appointment with a higher proportion of my time dedicated to teaching at Utrecht University (at least 50% of my time) than at Cornell University (15% of my time). The feedback that I receive from students is usually very good and positive.

Utrecht University:
Bovine herd health teaching program, final year 1987- 1999, coordinator since 1995.
Ambulatory clinic rotation, final year, 1987 – 1999.
First year course in epidemiology and statistics, 1996 – 1999.
Third year lecture series on modern epidemiology 1992 – 1999.
Tropical veterinary medicine, final year elective 1994 – 1999.
Director MSc. Program in veterinary epidemiology, University of Utrecht, 1992 - 1998.

Cornell University:
Milk quality elective, Cornell Veterinary Medicine, 1999-current.
Lecturer, Animal Science 341, 2001-current
Lecturer Veterinary Medicine block 7, 2001 – current.
Lecturer Graduate course on advanced epidemiological methods 1999-current.
Epidemiological tools for Infectious Disease Epidemiology, Summer Course, Cornell University 2002, 2004, 2007.
Introduction into food animal production systems (Coordinator with Drs. Nydam and Schat), 2002 – current.

Short courses:
Short course in veterinary epidemiology, National University, Heredia Costa Rica 1989.
Short course in herd health and epidemiology, Freie Universitat Berlin 1989.
Pre-ISVEE epidemiology workshop - Advanced level 1991.
Graduate course epidemiologic methods, University of Guelph 1991.
Post graduate M.Sc. course in epidemiology, 1992 – 1999.
Pre-ISVEE course analysis of repeated measures 1997.
Course Nordic Epidemiology program, repeated measures, 1997, 2000.
Advanced quantitative veterinary epidemiology – 2 week summer program, University of Guelph, 1998, 1999, 2000, 2001, 2003.
Mathematical modeling of infectious diseases. Three day short course, Uppsala, Sweden, 2009, repeated in Oslo, Norway and Helsinki, Finland, 2010.

## PRIZES AND AWARDS

1985 Fullbright grantee 1985-1987
1996 Royal Dutch Veterinary Association award. Most valuable contribution to the Dutch Journal of Veterinary Medicine
1997 BIC award. College of Veterinary Medicine Award for International Cooperation.
2002 American Dairy Science Association – Outstanding Scientist award
2010 Franqui Chair, University of Ghent, Ghent, Belgium.

## GRADUATE FIELD MEMBERSHIPS

Cornell University:

| | | |
|---|---|---|
| 1. | Comparative Biomedical Sciences | 1999 - current |
| 2. | Animal Science | 1999 - current |
| 3. | Food Science | 2000 - current |
| 4. | Epidemiology | 2001 - current |

University of Vermont:

| | | |
|---|---|---|
| 1. | Animal Science | 2002 - current |

## EXTERNAL EXAMINER PhD.

- M. Kadohira, University of Guelph, Canada, 1995
- V. Tuovinnen, Univerisity of Helsinki, Finland, 1996
- G. Omore, University of Nairobi, Kenya, 1997
- P. Steinar-Valle, University of Oslo, Norway, 1999
- E. Peeler, Bristol University, Bristol, UK, 2001
- C.J. Sanford, University of Prince Edward Island, Canada, 2006
- R.J. Bouwstra, Utrecht University, the Netherlands, 2010
- M. Derks, Utrecht University, the Netherlands, 2014

## RESEARCH INTEREST

My current research interests are in three major areas:

1. Understanding population dynamics of infectious diseases in animal populations.
2. Udder health in well managed dairy herds.
3. Application of epidemiological, statistical and mathematical methods to animal disease research.

My approach to research has been a comprehensive application of epidemiological, mathematical and patho-biological methods. This integrated approach emphasizing strong collaborations with scientists in related but different disciplines has provided me with the most productive solutions to research questions. I enjoy working in the field and with animals. Often field data provide crucial information and hypotheses that lead to formulation of research questions. However, field data are often crude with many potential biases. More precise measurements and study designs in controlled environments may provide further insight into the disease dynamics. Applied immunology and bacterial molecular typing methods provide a high resolution for detailed insight into infection dynamics within and between hosts. Results from these experimental studies may then be further verified under field conditions.

## PHD STUDENTS, SUPERVISION AND SUPPORT.

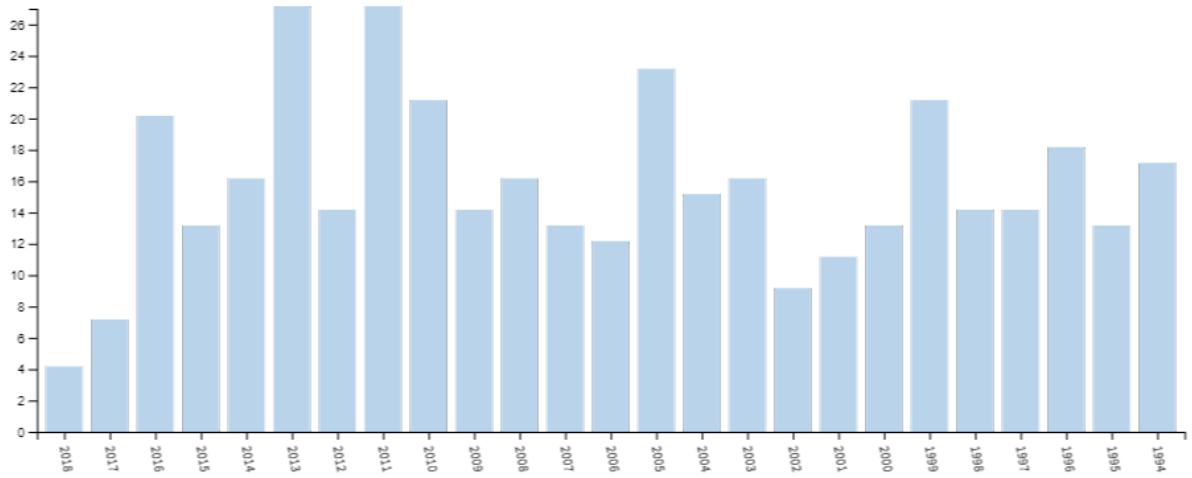
| Name | Thesis title | University | Role | Year completion |
|---|---|---|---|---|
| **Completed:** | | | | |
| M. Nielen. | Detection of bovine mastitis based on milking parlour data | Utrecht University | Major | 1995 |
| T.J.G.M. Lam | Dynamics of bovine mastitis | Utrecht University | Major | 1996 |
| I. Debyser | Juvenile mortality in captive populations of primates | Utrecht University | Major | 1996 |
| P. Vellema | Cobalt/Vitamin B12 deficiency in lambs on pasture | Utrecht University | Major | 1996 |
| J.J. Hage | Epidemiology of bovine herpes virus 1 infections | Utrecht University. | Major | 1997 |
| H.W. Barkema | Epidemiology of mastitis on herds in three somatic cell count cohorts | Utrecht University. | Major | 1998 |
| W. Wouda | Epidemiology of Neospora abortions | Utrecht University. | Major | 1998 |
| T. van Werven | Immune function of the bovine in relationship to Escherichia coli infections | Utrecht University. | Major | 1999 |
| C. Heuer | Negative energy balance in the bovine, prediction consequences and prevention | Utrecht University. | Major | 2000 |
| W. Suryiasathaporn | Negative energy balance in post partum dairy cows | Utrecht University | Major | 2000 |
| A.L.J. Nielen | Mortality and disease in a birth cohort of boxer dogs | Utrecht University. | Major | 2000 |
| D. Döpfer | Epidemiology and pathogenesis of repeated cases of Escherichia coli mastitis | Utrecht University. | Minor | 2000 |
| G. van Schaik | Risk and economics of disease introduction into dairy farms | Wageningen Agricultural | Minor | 2000 |
| R.N. Zadoks | Molecular and Mathematical Epidemiology of Staphylococcus aureus and Streptococcus uberis mastitis in Dairy herds | Utrecht University. | Major | 2001 |
| J. Sol | Cure of Staphylococcus aureus mastitis in Dutch dairy cows | Utrecht University. | Major | 2002 |
| M. Green | Dynamics of intramammary infections in dairy cows | University of. Warwick | Minor | 2003 |
| Matt Waldren | Periparturient metabolism and health | Cornell University | Minor | 2002 |
| Kendra Nightingale | Epidemiology of bovine L. monocytogenes | Cornell University | Minor | 2005 |
| D.J. Wilson | Immunological aspects of vaccination against Escherichia coli mastitis | Cornell University | Major | 2006 |
| Brian Sauders | Epidemiology of human L. monocytogenes | Cornell University | Minor | 2006 |
| M. Munoz | Molecular Epidemiology of Klebsiella Mastitis | Cornell University. | Major | 2008 |
| J. Barlow | Population dynamics of intervention strategies for intramammary infections in dairy herds | University of Vermont | Major | 2008 |
| Doron Bar | Economical and epidemiological models for repeated mastitis in dairy cows | Cornell University | Minor | 2008 |
| A. Latorre | Molecular epidemiology Listeria monocytogenes | Cornell University | Major | 2010 |
| R. Mitchell | Modeling Mycobacterium Avium spp paratuberculosis on dairy farms. | Cornell University | Major | 2015 |
| K. Cicconi | Animal health on organic and conventional dairy farms | Cornell University | Major | 2016 |
| R. Watters | Milking procedures on dairy farms | Cornell University | Minor | 2017 |
| R. Smith | Economics of paratuberculosis in dairy cattle | Cornell University | Minor | 2016 |
| A. Beaver | Modelling of MAP on dairy farms | Cornell University | Major | 2018 |
| B. Pomeroy | Immune function in bovine mastitis | Cornell University | Major | 2018 |

## RESEARCH GRANTS

In the 17 years at Cornell University, I have received as Principal Investigator or Co-Principal Investigator over 50 competitive grants. The total amount awarded was over 10 million US$. Of these grants about 50% were from competitive federal funding (USDA, NSF and other agencies), 25% from New York state funding and 25% through commercial funding sources. At Wageningen University, I have received commercial grants and NOW-funded grants.

## PAPERS IN REFEREED JOURNALS:

**Publication figures as of December 2018. The figure shows the number of peer-reviewed publications per year, Report from ISI database.**




**H-index on June 3, 2018 was 64 as reported by ISI.**

## LIST OF PUBLICATIONS

For an up to date list of publications, use the following link:
**http://www.ncbi.nlm.nih.gov/pubmed?term=schukken**