

## CURRICULUM VITAE

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Languages : English (speak, read, write)  
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Netherlands (speak, read, write)  
German (read)

Training and Qualifications : 1963: Matric (Distinction in Mathematics)  
1968: B.V.Sc., University of Pretoria  
1997: M.Med.Vet. (Bact.), University of Pretoria

Employment Experience : 1969 – 1970 Veterinarian in private practice  
(locums)  
1970 – 2002 Onderstepoort Veterinary Institute  
Project Leader, Bacteriology and  
from 1997 acting Section  
Head, for the Bacteriology, Food Hygiene and  
Reproduction Sections.  
2002 – 2016 IDEXX Laboratories, Veterinary  
Specialist  
2016 – date Vetdiagnostix

Specialist Field: Veterinary Specialist, registered by the South  
African Veterinary Council in 2001.  
Bacteriology

## PUBLICATIONS

1. Ehret, W.J., Schutte, A.P., Pienaar, J.G. & Henton, M.M. Chlamydiosis in a beef herd. *Journal of the South African Veterinary Association*, 46,171-179 (1975).
2. Du Plessis, J.L., Meyer-Scharrer, Elizabeth, Verwoerd, D.W. and Henton, M.M. Mortality of suckling athymic nude mice associated with *Staphylococcus aureus*. *Journal of the South African Veterinary Association*, 49 No. 3, 253-255 (1978).
3. Boomker, J. and Henton, M.M. Pseudotuberculosis in a cheetah (*Acinonyx jubatus*). *South African Journal of Wildlife Research*, 10(2), 63-66 (1980).
4. Boomker, J, Henton, M.M., Naudé, T.W. and Huchzermeyer, F.W. Furunculosis in rainbow trout (*Salmo gairdneri*) raised in sea water. *Onderstepoort J. Vet. Res*, 51, 91-94 (1984).
5. Bragg, R.R. and Henton, M.M. Isolation of *Yersinia ruckeri* from rainbow trout in South Africa. *Bulletin European Association of Fish Pathologists*, 6(1), 5 (1986).
6. Hunter, P., van der Vyver, F.H., Selmer-Olsen, A., Henton, M.M., Herr, S. and de Lange, J.F. Leptospirosis as a cause of "white spot" kidneys in South African pig abattoirs. *Onderstepoort Journal of Veterinary Research*, 54, 59-62 (1987).

7. Van Amstel, S.R., Henton, M.M., Witcomb M.A., Fabian, B. and Vervoort, P. Antibiotic sensitivity of *Pasteurella haemolytica* isolated by means of a fibreoptic endoscope from cases of pneumonic pasteurellosis in cattle. *Onderstepoort Journal of Veterinary Research*, 54, 551-552 (1987).
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9. Berry, W.L., van Rensburg, I.B.J. and Henton, M.M. Systemic cryptococcosis in a cat. *Journal of the South African Veterinary Association*, 61(2), 71-75 (1990).
10. Els, H.J., Krecek, R.C., Henton, M.M. and de Wet, S.C. Adherence and development of a smooth-walled filamentous bacterium associated with equine Cyathostomes. *Proceedings of the XIth International Congress for Electron Microscopy* (1990).
11. Lambrechts, N., Collett, M.G. and Henton, M. Black grain eumycetoma (*Madurella mycetomatis*) in the abdominal cavity of a dog. *Journal of Medical and Veterinary Mycology*, 29, 211-214 (1991).
12. Krecek, R.C., Els, H.J., de Wet, S.C. and Henton, M.M. Studies on Ultrastructure and cultivation of Micro-organisms Associated with Zebra Nematodes. *Microbial Ecology*, 23, 87-95 (1992).
13. Trichard, C.J.V., Jordaan, P., Prozesky, L., Jacobsz, E.P. and Henton, M.M. The identification of *Mycoplasma mycoides* L C as the aetiological agent of balanoposthitis

and vulvovaginitis in sheep in South Africa. *Onderstepoort Journal of Veterinary Research*, 60, 29-37 (1993).

14. Huchzermeyer, F.W., Henton, M.M. and Keffen, R.H. High mortality associated with megabacteriosis of proventriculus and gizzard in ostrich chicks. *The Veterinary Record*, 133, 143-144 (1993).
15. Vorster, J.H., Henton, M.M., Bastianello, S.S. and van der Lugt, J.J. Attaching and effacing *Escherichia coli* strains as a cause of diarrhoea and mortality in calves in South Africa. *Journal of the South African Veterinary Association*, 65, 3 (1994).
16. Van der Lugt, J.J., Gerdes, G.H., Henton, M.M. and Lopez Rebollar, L.M. Guidelines for establishing a diagnosis in calf diarrhoea. *Journal of the South African Veterinary Association*, 65, 4 (1994).
17. Van Halderen, A. and Henton, M.M. *Moraxella* spp. Infections. In: Coetzer, J.A.W., Thomson, G.R., Tustin, R.C. and Kriek, N.P.J., (eds). *Infectious Diseases of Livestock with special reference to Southern Africa*. Vol. II. Cape Town, Oxford, New York: Oxford University Press (1994).
18. Henton, M.M. *Klebsiella* spp. Infections. In: Coetzer, J.A.W., Thomson, G.R., Tustin, R.C. and Kriek, N.P.J., (eds). *Infectious Diseases of Livestock with special reference to Southern Africa*. Vol. II. Cape Town, Oxford, New York: Oxford University Press (1994).
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21. Henton, M.M. 1994. *Actinobacillus* spp. Infections. *In: Coetzer, J.A.W., Thomson, G.R., Tustin, R.C. and Kriek, N.P.J., (eds). Infectious Diseases of Livestock with special reference to Southern Africa*. Vol. II. Cape Town, Oxford, New York: Oxford University Press.
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23. Henton, M.M. 1994. *Actinobacillus equuli* infections. *In: Coetzer, J.A.W., Thomson, G.R., Tustin, R.C. and Kriek, N.P.J., (eds). Infectious Diseases of Livestock with special reference to Southern Africa*. Vol. II. Cape Town, Oxford, New York: Oxford University Press.

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25. Henton, M.M., 1994. *Actinobacillus suis* infections. *In: Coetzer, J.A.W., Thomson, G.R. Tustin, R.C. and Kriek, N.P.J., (eds). Infectious Diseases of Livestock with special reference to Southern Africa. Vol. II. Cape Town, Oxford, New York: Oxford University Press.*
26. Henton, M.M., 1994. *Staphylococcus* spp. infections. *In: Coetzer, J.A.W., Thomson, G.R., Tustin, R.C. and Kriek, N.P.J., (eds). Infectious Disease of Livestock with special reference to Southern Africa. Vol. II. Cape Town, Oxford, New York: Oxford University Press.*
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38. Penrith, M.L., van der Lugt, J.J., Henton, M.M., Botha, J.A. and Stroebel, J.C., 1994. A review of mycotic nasal granuloma in cattle, with a report on three cases. *Journal of the South African Veterinary Association*, 65, 179-183.
39. Penrith, M.L., Henton, M.M. and Clay, C.G., 1995. CNF 1 toxin-producing strains of *Escherichia coli* isolated from weaner pigs with necrotic enteritis in South Africa. *Veterinary Record*, 136, 493-494.

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41. Odendaal, M.W. and Henton, M.M., 1995. The distribution of *Pasteurella haemolytica* serotypes among cattle, sheep and goats in South Africa and their association with disease. *Onderstepoort Journal of Veterinary Research*, 62, 223-226.
42. Joubert, J.P.J., Henton, M.M., Whitehead, C.J. and Kellerman, G.E., 1995. Artificial transmission of Bolo disease in woolled sheep and attempted characterization of the causative unclassified *Corynebacterium* sp. *Journal of the South African Veterinary Association*, 66, 222-229.
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44. Van der Lugt, J.J., Henton, M.M. & Steyn, B.G., 1996. Type C botulism in sheep associated with the feeding of poultry litter. *Journal of the South African Veterinary Association*, 67, 3-7
45. Henton, M.M., 1997. Characterization of *E. coli* strains isolated from diseased pigs in South Africa by means of serotyping and virulence markers. M.Med.Vet.(Bact)

Thesis, University of Pretoria.

46. Bastianello, S.S., Dolman, C.C., Henton, M.M. and Penrith, M-L., 1997. Suspected aflatoxicosis in breeding budgerigars. *Journal of the South African Veterinary Association*, 68, 2-4.
47. Lubbe, A.M. and Henton, M.M., 1997. Sterilization of surgical instruments with formaldehyde gas. *Veterinary Record*, 140, 450-453.
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52. Henton, M.M., Zapke, O. and Basson, P.A., 1999. *Streptococcus phocae* infections associated with starvation in Cape fur seals. *Journal of the South African Veterinary Association*, 70, 98-99.

53. Dingu, B., Henton, M.M., Bosman, A., Fourie, H. and Viljoen, G., 2000. Evaluation of two PCR-based procedures for typing *Clostridium perfringens*. *Journal of the South African Veterinary Association*, 71, 111-114.
54. Huchzermeyer, F.W., Henton, M.M., Riley, J. and Agnagna, M., 2000. Aerobic intestinal flora of wild-caught African dwarf crocodiles *Osteolaemus tetraspis*. *Onderstepoort Journal of Veterinary Research*, 67, 201-204.
55. Huchzermeyer, F. Henton, M.M., 2000. Megabacteria in mammals. *Veterinary Record*, 146: 768.
56. Takai, S., Henton, M.M., Picard, J.A., Guthrie, A.J., Fukushi, H., 2001. Prevalence of virulent *Rhodococcus equi* in isolates from soil collected from two horse farms in South Africa and restriction fragment length polymorphisms of virulence plasmids in the isolates from infected foals, dog and a monkey. *Onderstepoort Journal of Veterinary Research*. 68, 105-10.
57. Morfeld, K, Henton, M M, Grobler, D, Bengis, R, Puffer, A, Armstrong, D L, 2001. Elimination of *Brucella abortus* from infected domestic (*Bos taurus*) and wild (*Bos gaurus*) cattle and buffalo (*Syncerus caffer*) semen without compromising sperm viability. *Theriogenology*, 55, 393
58. Volkmann, D H, Williams, J H, Henton, M M, Donahue, J M, Williams, N M, 2001. The first reported case of equine nocardiform placentitis in South Africa, 2001. *Journal of the South African Veterinary Association*, 72, 235-238
59. Irons, P.C., Henton, M.M., Bertschinger, H.J., 2002. Collection of preputial material by scraping and aspiration for the diagnosis of *Tritrichomonas foetus* in bulls. *Journal of the South African Veterinary Association*, 73, 66-9.
60. Labeda, D.P., Donahue, J.M., Williams, N.M., Sells, S.F. and Henton, M.M., 2003  
*Amycolatopsis kentuckyensis* sp. nov., *Amycolatopsis lexingtonensis* sp. nov. and

*Amycolatopsis pretoriensis* sp. nov., isolated from equine placentas. *International Journal of Systematic and Evolutionary Microbiology*, 53, 1601-1605.

61. Haruna, E.S., Usman, M., Ahmed, S., Shaibu, J.S., Makinde, A.A., Lombin, L.H. and Henton, M.M., 2004. Isolation of *Citrobacter murlinae* from clinically ill and dead quail, ducks and chickens. *Veterinary Record*, 154, 119-120.
62. Henton, M. M., 2003. *Pasteurella testudinis* associated with respiratory disease and septicaemia in leopard (*Geochelone pardalis*) and other tortoises in South Africa. *Journal of the South African Veterinary Association*, 74, 135-136.
63. Penrith, M-L and Henton, M. M. *Bordetella bronchiseptica* infections. In: Coetzer, J. A. W. and Tustin, R. C., (eds). *Infectious Diseases of Livestock*. Second edition. Volume 3 (2004) Cape Town, Dar es Salaam, Hong Kong, Karachi, Kuala Lumpur, Madrid, Melbourne, Mexico, Nairobi, New Delhi, New York, Toronto, Shanghai: Oxford University Press.
64. Naser, J. A., Henton, M. M. and Fenwick, S. G. Ovine and caprine salmonellosis. In: Coetzer, J. A. W. and Tustin, R. C., (eds). *Infectious Diseases of Livestock*. Second edition. Volume 3 (2004) Cape Town, Dar es Salaam, Hong Kong, Karachi, Kuala Lumpur, Madrid, Melbourne, Mexico, Nairobi, New Delhi, New York, Toronto, Shanghai: Oxford University Press.
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66. Raji, M, Adekeye, J, Kwaga, J, Bale, J, Henton, M, 2007. Serovars and biochemical characterization of *Escherichia coli* isolated from colibacillosos cases and dead-in-shell embryos in poultry in Zaria-Nigeria. *Veterinarski Arhiv* 77, 495-505.
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68. Henton, M. M., Eagar, H. A., Swan, G. E. and van Vuuren, M., 2011. Part VI. Antibiotic management and resistance in livestock production. *South African Medical Journal*, Part 2, 101, 583-586.

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70. Smith, A.M., Ismail, H., Henton, M. M. and Keddy, K. H., 2014. Similarities between *Salmonella* Enteritidis isolated from humans and captive wild animals in South Africa. *Journal of Infection in Developing Countries*,8(12): 1615-1619
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#### Other publications

References 17 – 27 and 29 – 35. These chapters were also updated with various co-authors in the second edition of Coetzer, J. A. W. and Tustin, R. C., (eds). *Infectious Diseases of Livestock*. Second edition. Volume 3 (2004) Cape Town, Dar es Salaam, Hong Kong, Karachi, Kuala Lumpur, Madrid, Melbourne, Mexico, Nairobi, New Delhi, New York, Toronto, Shanghai: Oxford University Press.

#### Other Activities

1. Regular presentation of scientific papers about bacterial diseases of animals in South Africa at veterinary congresses and other veterinary group meetings.
2. Regular peer reviewer for veterinary journals.
3. Technical Advisor to The Registrar, Act 36 of 1947 until 2005 and again from 2021 to date.
4. Occasional external examiner for pre- and post-graduate dissertations and examinations.
5. SANAS (South African National Accreditation System). Attended the Technical Assessor Course, 22-26 November 2004 and the Good Laboratory Practice workshop, 28-30 June, 2005. Technical Assessor for Veterinary Bacteriology Laboratories (now lapsed). Was a founder member of the Veterinary Specialist Technical committee.
6. SAVLSF – SA Veterinary Laboratory Scientific Forum member, and on two of its task teams. The SAVLSF comprises all the government veterinary laboratories (provincial and national) and the university (Onderstepoort). The SAVLSF makes recommendations regarding best practices for veterinary laboratories, by co-ordinating recommended tests, in line with OIE principles.

7. Veterinary Council – assisting assessment of an application for veterinary specialization. Act as the Veterinary Council’s representative (also for the SAVA – South African Veterinary Association) for both the SANAS technical committee and the SAVLSF.
8. SAASP (South African Antibiotic Stewardship Programme) member. Initiative of combined medical and veterinary members for a strategy to combat antibiotic resistance.

Anthrax experience 1970 – 2002 All anthrax diagnostics received at Onderstepoort. Outbreaks in the Kimberley area during 1995/6 and 2001

Cultured 565 samples from the police during the anthrax powders scare in 2001 and 2001.  
Was the reference laboratory for all veterinary laboratories in SA from 1970 – 2002

Anthrax workshops:

Presented and lectured on the veterinary and laboratory aspects of anthrax. Trained (practical) laboratory staff on diagnostics.

Astana, Kazakhstan, 19-27 October, 2006

Tbilisi, Georgia, 23-27 April, 2007

Samarkand, Uzbekistan, 17-21 November, 2008

Skukuza, SA, 28-30 November, 2008

Skukuza, SA, 1-3 March, 2011

## **Work experience**

During the 32 years I was employed at the Onderstepoort Veterinary Institute, I was mainly responsible for bacterial diagnostics of all the farm and pet animals submitted to the Institute. The laboratory also functioned as a reference laboratory for all the other veterinary microbiology laboratories in the country.

My duties also included all the activities of the Food Hygiene Section.

In addition, I was also involved with research on bacterial diseases and the bacterial vaccines prepared by the vaccine factory. These resulted in various publications as well as improvements in the vaccines prepared by the factory. I also assisted other researchers with their projects and studies, for example when they had to show absence of bacterial disease in the e.g. viral condition they were studying, or for the development of new tests, such as PCR tests for bacterial conditions.

From 2002 to 2016, I was responsible for bacterial and fungal diagnostics at Idexx Laboratories, and since then, Vetdiagnostix.

At Idexx and Vetdiagnostix laboratories, the daily diagnostic samples are far more than the sample load at Onderstepoort, and the greater proportion is from companion animals. I have continued to assist other researchers, e.g. dolphin mortalities due to shark nets, crocodile microbiology, *Mycobacterium* (not *M. bovis*) in animals.

### **Education**

I have given occasional lectures to pre- and postgraduate students at the Faculty of Veterinary Science. I have also occasionally lectured microbiology students and Animal Health technicians. I occasionally act as external examiner for examinations and dissertations or theses.

I am presently an advisor for a specialist candidate.

I regularly present papers at congresses. I have presented workshops on Anthrax in Astana, Kazakhstan, Tblisi, Georgia and Samarkand, Uzbekistan.

I regularly review articles for publication in the Onderstepoort Journal of Veterinary Research and the Journal of the South African Veterinary Association.

### **Experience as a Technical Advisor for The Registrar Act 36**

I assessed dossiers for the Registrar, Act 36 since the 1970's until 2005, and again during 2018. I was appointed again in 2021.

Most of the dossiers that I have assessed were for vaccines, new antibiotics, disinfectants and other biologicals.

### **Quality control and GLP**

Apart on what has been listed under SANAS, the bacteriology laboratory at the Veterinary Research Institute was the first laboratory at Onderstepoort to be accredited by SANAS, whilst I was the acting Section Head.