

**Set Bornsteins Curriculum vitae  
2012)**

## **Education, scientific degrees:**

Higher school certificate, 1958 (Stockholm).

Diploma in Tropical Veterinary Medicine (DTVM) vid Centre for Tropical Veterinary Medicine (CTVM), Edinburgh, Scotland). 1967.

**DVM**, Royal Veterinary College (Kungl. Veterinärhögskolan), Stockholm, Sweden, 1968

Master of Science (MSc) in Tropisk Veterinary Medicin at the Centre for Tropical Veterinary Medicine (CTVM), Edinburgh, Scotland 1968.

**PhD** in Veterinary Medicin, Swedish University of Agricultural Sciences (SUAS), Uppsala, Sweden) 1995.

Associate Professor (Docent) in Veterinary Medicin and Parasitologi, Swedish University of Agricultural Sciences (SUAS), Uppsala, Sweden, 1998.

**Emeritus at the Department of Virology, Immunology and Parasitology at the National Veterinary Institute (SVA), Uppsala, Sweden. from 2007-.**

## **Completed academic courses:**

**Artificial insemination (AI)** at Royal Veterinary College (Kungl. Veterinärhögskolan), Stockholm, 1965-66.

**One year of Tropical Veterinary Medicine (DTVM)** vid Center for Tropical Veterinary Medicine (CTVM), Edinburgh, Scotland, 1967-68.

Pig health control programs, SVA, 1968.

Preparatory course for aid-workers, SIDA, 4-22/8, 1969. Uppsala

**Environmental control (conservation)** 10 points (1 semester), University of Stockholm, 1972.

**MSc. Tropical Veterinary Science**, University of Edinburgh, 1974-1975.

Poultry Production, 17-21/11, 1975, Ministry of Agriculture, Stockholm.

**Training in bacteriology** of water at ``Statens bakteriologiska laboratorium`` (SBL, Solna, Sweden), 8/11-3/12, 1976.

**The physiology of reproduction** of the mare and diseases of foals, 12-13/2, 1977, (College of the Swedish Veterinary Association)

**Social Antropology 40 points** (a full academic year), University of Stockholm, 1978.

Oftalmologi, 1-3/2, 1979. College of the Swedish Veterinary Association.

**Spanish, technical language: 10 points, University of Stockholm, spring 1979,**

Schistosomes and schistosomiasis, minisymposium at the Dep pf Parasitology, The National Bacteriological Laboratory, Hospital of Roslagstull, Stockholm, 11-13<sup>th</sup> May 1981.

**The biology and medicine of small rodents, cagebirds, reptiles and aquarium fish**, (College of the Swedish Veterinary Association). 22-23/10, 1982.

**The use of konjugated antibodies in medicinal och parasitological research, SBL, 29/8-4/9, 1982.**

**Workmanager training** at the National Veterinary Institute (SVA), Uppsala, Sverige. 10-12/11 1986.

**European course in Acarology**, University of Nottingham, School of Agriculture, Sutton, England. 7-18/9, 1987.

**Training in the management of laboratory animals**, SVA, Uppsala. November 1992.

**Statistical methodology of research planning**, Glunten Uppsala. 26-28/10 1993.

**Epidemiology** (a full year) 1994, Vet Fac, SLU, Main teacher; Dr. Brenda Bonnet, Univ. of Guelph, Canada. & course leader; Prof. Åke Hedhammar, Vet Fac, SUAS.

**Immobilising of animals** with help of injektion-guns according to the Ministry of Agriculture's demands Jordbruksverkets krav i LSFS 1986: 31). Kolmården, Sweden. 20-22/1, 1995.

**Cloning of genes**, a course led by FD. Jens Mattsson, SVA, Uppsala, spring 1995.

Workshop on the diagnostics of *Gyrodactylus salaris*. 13-17/4 1996, Oulu, Finland. Sponsored by the Commission Europeenne, D.G. Agriculture

**Basic course in pedagogy** (teaching) at SUAS, 4 weeks (spring) 1996, responsible & leader of the course; Nils Trowald, Ann-Mari Åkerblom.

**Course in pedagogy** (teaching) for associate professorship (docent). SUAS, 4 weeks during okt.-nov. 1996.

Anatomy and diseases of hairsacs, Swedish Veterinary Dermatology Study Group. Stockholm, 15-16/11 1996.

**Austriches and their diseases** 9-10:e September 1998, Uppsala, Sweden.

## **Publications**

### **Articles in peer reviewed international journals (P)**

P:1. Bornstein, S. The genetic sex of two intersexual horses and some notes on the karyotype of normal horses. *Acta Veterinaria Scandinavica*. 1967; 8: 291-300.

P:2. Bornstein, S. & K. Iwarsson. Occurrence of nasal mites in a colony of Syrian hamsters (*Mesocricetus auratus*). *Laboratory Animals*. 1980; 14: 31-33.

P:3. Bech-Nielsen, S., Bornstein, S., Christensson, D., Wallgren, T.B., Zakrisson, G. & Chirico, J. *Parafilaria bovicola* (Tubangu 1934) in cattle: Epizootiology-vector studies and experimental transmission of *Parafilaria bovicola* to cattle. *American Journal of Veterinary Research*. 1982; 43: 948-954.

**P:4. Bornstein, S. & B. E. Musa. Prevalence of antibodies to some viral pathogens, *Brucella abortus* and *Toxoplasma gondii* in serum from camels (*Camelus dromedarius*) in Sudan. *Journal of Veterinary Medicine B*. 1987; 34: 364-370.**

P:5. Dirie, M.F., Wallbanks, K.R., Molyneux, D.H., Bornstein, S. & Omer, H.A. Haemorrhagic syndrom associated with *T. vivax* infections of cattle in Somalia. *Acta Tropica*. 1988; 45: 291-292.

**P:6. Dirie, M.F., Wallbanks, K.R., Aden, A.A. Bornstein, S. & Ibrahim. M.D. Camel trypanosomiasis and its vector in Somalia. *Veterinary Parasitology*. 1989; 32: 285-291.**

**P:7. Bornstein, S. The ship of the desert. - The dromedary camel (*Camelus dromedarius*), a domesticated animal species well adapted to extreme conditions of aridness and heat. *Rangifer*. 1990; 3: 231-236.**

P:8. Dirie, M.F., Bornstein, S. Wallbanks, K.R., Molyneux D.H. & Steen, M. Comparative studies on Megatrypanum trypanosomes from cervids. *Tropical Medicine and Parasitology*. 1990; 41: 198-202.

P:9. Dirie, M.F., Bornstein, S. Wallbanks, K.R. Stiles, J.K. & Molyneux .D.H. Zymogram and life-history on trypanosomes of the subgenus Megatrypanum. *Parasitology Research*. 1990; 76: 669-674.

**P:10. Abdurahman, O. S. & S. Bornstein. Diseases of camels (*Camelus dromedarius*) in Somalia and prospects for better health. *Nomadic People*. 1991; 29: 104-112.**

- P:11. Bornstein, S. Experimental infection of dogs with *Sarcoptes scabiei* derived from naturally infected wild red foxes (*Vulpes vulpes*): Clinical observations. *Veterinary Dermatology*. 1991; 2: 151-159.
- P:12. Lindberg, R., S. Bornstein, S. Landerholm & G. Zakrisson. Canine trichinosis with signs of neuromuscular disease. *Journal of Small Animal Practice*. 1991; 32: 194-197.
- P:13. Abdurahman, O.S., Cooray, R. & Bornstein, S. 1992. The ultrastructure of cells and cell fragments in mammary secretions of *Camelus bactrianus*. *Journal of Veterinary Medicine A*. 1992; 39: 648-655.**
- P:14. Bornstein, S. & G. Zakrisson. Humoral antibody response to experimental *Sarcoptes scabiei* var. *vulpes* infection in the dog. *Veterinary Dermatology*. 1993; 4: 107-110.
- P:15. Bornstein, S. & G. Zakrisson. Clinical picture and antibody response in pigs infected by *Sarcoptes scabiei* var. *suis*. *Veterinary Dermatology*. 1993; 4: 123-131.
- P:16. Bornstein, S. & G. Zakrisson. Humoral antibody response to experimental *Sarcoptes scabiei* var. *vulpes* infection in the dog. *Small Animal Medicine Digest*. 1995; 3: 267-268. (An extended summary of the article with the same title published in *Veterinary Dermatology*. 1993; 4: 107-110.)
- P:17. Bornstein, S., Zakrisson, G. & Thebo, P. Clinical picture and antibody response to experimental *Sarcoptes scabiei* var. *vulpes* infection in red foxes (*Vulpes vulpes*) *Acta Veterinaria Scandinavica*. 1995; 36: 509-519.
- P:18. Bornstein, S., Thebo, P. & Zakrisson, G. Evaluation of an enzyme-linked immunosorbent assay (ELISA) for the serological diagnosis of canine sarcoptic mange. *Veterinary Dermatology*. 1996; 7: 21-28.
- P:19. Bornstein, S., P. Thebo & G. Zakrisson. Evaluation of an enzyme-linked immunosorbent assay (ELISA) for the serological diagnosis of canine sarcoptic mange. *Veterinary Digest*. 1996; 3: 27-30. (A slightly revised version of the article with the same title and which was first published in *Veterinary Dermatology* 1996).
- P:20. Bornstein, S. & P. Wallgren. Serum antibody responses to *Sarcoptes scabiei* infections in young pigs following acaricidal treatment. *Proceedings of the 14th International Pig Veterinary Society Congress, 7-10 July. Bologna, Italy. 1996. 355.*
- P:21. Abdurahman, O.S.Sh., G. Åström, B. Röken & S. Bornstein. Endotoxin-induced mastitis in the camel - A preliminary study.** Part of O.S.Sh Abdurahmans PhD thesis. 1996. `Studies on mastitis in the camel; cytological, bacteriological and diagnostic aspects` Department of Obstetrics and Gynaecology, Faculty of Veterinary medicine, Swedish University of Agricultural Sciences. Uppsala, Sweden.
- P:22. Cooray, R. O.A.Sh. Abdurahman, S. Bornstein, O. Holmberg & G. Åström. Respiratory burst activity of phagocytic cells isolated from the mammary gland and blood of camels (*Camelus bactrianus*). *Journal of Veterinary Medicine, B*. 1997; 44: 29-37.**
- P:23. Bornstein, S., Zakrisson, G & Thebo P. Clinical picture and antibody response to experimental *Sarcoptes scabiei* var *vulpes* infection in red foxes (*Vulpes vulpes*). *IFASA/SCIENTUR*. 1997. 21: 232.

P:24. Hollanders, W., Vercruyse, J., Raes, R.S. & Bornstein, S. Evaluation of an enzyme-linked immunosorbent assay (ELISA) for the serological diagnosis of sarcoptic mange in swine. *Veterinary Parasitology*. 1997; 69: 117-123.

P:25. Bornstein, S. & P. Wallgren. Serodiagnosis of sarcoptic mange in swine. *Veterinary Record*. 1997; 141: 8-12.

P:26. Wallgren, P. & Bornstein, S. The spread of porcine sarcoptic mange during the fattening period revealed by the development of antibodies to *Sarcoptes scabiei*. *Veterinary Parasitology*. 1997; 73: 315-324.

**P:27. Bornstein, S., Thebo, P., Zakrisson, G., Abu-Samra, M.T. & Mohamed, G.E. Demonstration of serum antibody to *Sarcoptes scabiei* in naturally infected camels: A pilot study. 1997. *Journal of Camel Practice and Research*. 1997; 4: 183 - 185.**

P:28. Jacobson, M., Bornstein, S. & Wallgren, P. 1997. The efficacy of simplified eradication strategies against sarcoptic mange mite infections in swine herds monitored by an ELISA. *Veterinary Parasitology*. 81: 249-258.

P:29. Heinonen, M., Bornstein, S., Kolhinen, R., Saloniemi, H. & Tuovinen, V. Eradication of porcine sarcoptic mange within a health declared production model. *Acta Veterinaria Scandinavica*. 2000. 41: 41-50.

P:30. Jacobson, M., Bornstein, S. Palmer, E. & Wallgren, P. Elimination of *Sarcoptes scabiei* in pig herds by single and double administrations of an avermectin. *Acta Veterinaria Scandinavica*. 2000. 41: 227-235.

**P 31. Bornstein, S., M Younan. & R. Feinstein. Case of neonatal camel colisepticemia in Kenya. *Revue d'élevage et de médecine vétérinaire des pays tropicaux*. 2000. 53 (2); 123-124.**

P 32. Egenvall, A., Bonnett, B.N., Gunnarsson, A., Hedhammar, Å., Shoukri, M., Bornstein, S. & Artursson, K. Sero-prevalence of Granulocytic *Ehrlichia* spp. and *Borrelia* sensu lato in Swedish dogs 1991-94. *Scandinavian Journal of Infectious Diseases*. 2000. 32: 19-25.

**P 33. Younan, M., Ali, Z., Bornstein, S. & Muller, W. *Streptococcus agalactiae* infection in camels (*Camelus dromedarius*) in Kenya. Proceedings of the Actes de l'Atelier International sur le Chamelon. *Revue d'Élevage et de Médecine Vétérinaire des Pays Tropicaux*. 2000. 53: 169-171.**

**P 34. Younan, M., Ali, Z., Bornstein, S. & Muller, W. Application of the California mastitis test in intramammary *Streptococcus agalactiae* and *Staphylococcus aureus* infections of camels (*Camelus dromedarius*) in Kenya. *Preventive Veterinary Medicine*. 2001. 51: 307-316.**

P35. Bornstein, S., Wernery, U, Younan, M., Kinne, J., Näslund, K., Mattsson, R. & Koskey, J. Experimental studies on *Sarcoptes scabiei* infections in arabian camels (*Camelus dromedarius*). COST Action 833, Proceedings of the Mange and myiasis of livestock workshop, Ecole Nationale Veterinaire de Toulouse, France, 3-6<sup>th</sup> of October. 2002. 38-48.

**P 36. Bornstein, S. Sarcoptic mange in swine, Review article for Pig News and Information, 25: 1; 1N-14N, (animalscience.com. Reviews. 2004. No 1.)**

- P 37. Morrison, D. A., Bornstein, S., Thebo, P., Wernery, U., Kinne, J. and Mattsson, J.G. The current status of the small subunit rRNA phylogeny of the coccidian (Sporozoa). International Journal of Parasitology. 2004. 34: 501-514.** (Note this article contains also the description, and the first publication of *Isospora orlovi*'s gene sequence, a coccidia of dromedaries).
- P 38.** Bornstein, S. *Pneumyssoides caninum* (Fain, 1955), the canine nasal mite. Teaching text for Vetstream, UK and the US (IT). 2004.
- P 39.** Bornstein, S., Roosling, J., Näslund, K., Zakrisson, G., Mörner, T. **2006.** Evaluation of a serological test (indirect ELISA) for the diagnosis of sarcoptic mange in red foxes (*Vulpes vulpes*). *Veterinary Dermatology*. 17: 411 - 416.
- P 40. Younan, M. and S.Bornstein. 2007. Lancefield Group B and C Streptococci, important opportunistic pathogens in East African camels (Camelus dromedarius). Veterinary Record. 160: 330 - 335.**
- P41.** Hestvik, G., Zahler-Rinder, M., Gavier-Widen, D., Lindberg, R., Mattsson, R., Morrison, D and Bornstein, S. 2007. A previously unidentified *Chorioptes* species infesting outer ear canals of moose (*Alces alces*): characterization of the mite and the pathology of infestation. *Acta Veterinaria Scandinavica*. 49:21; 1 - 10.
- P42. Younan, M, Bornstein, S., Gluecks, I.V. 2007. Peri-articular abscesses in camel calves in North Kenya. Journal of Camel Practice and Research. 14 (2), 161 - 164.**
- P43. Bornstein, S., Gluecks, I.V., Younan, M., Thebo, P., Mattsson, J.G. 2008. Isospora orlovi infection in suckling dromedary camel calves (Camelus dromedarius) in Kenya. Veterinary Parasitology. 152: 3-4; 194 - 201.**
- P44.** Davidson, R., Bornstein, S., Handeland, K. 2008. Long-term study of *Sarcoptes scabiei* infection in Norwegian red foxes (*Vulpes vulpes*) indicating host/parasite adaptation, *Veterinary Parasitology*. 156: 277-283.
- P45. Bornstein, S. 2010. Important ectoparasites of Alpaca (Vicugna pacos). Acta Vet. Scand. 52: S17 (14-18).**
- P46. Bornstein, S. and de-Verdier, K. 2010. Some important ectoparasites of alpaca (Vicugna pacos) and llama (Llama glama). Journal of Camelid Science.3, 49 - 61.**
- P47. Bornstein, S and K. de-Verdier. 2010. Some important Ectoparasites of Alpaca (Vicugna pacos) and Llama (Lama glama). Journal of Camelid Science. 3; 49-61.**
- P48. Younan, M. Glücks I.V., Podschun R. and Bornstein S.. Klebsiella pneumoniae in Kenyan camel calves (Camelus dromedarius). Submitted to Journal of Camel Practice and Research, 2011.**
- P49. Samer Alasaad , Shelley Walton b, Luca Rossi, Set Bornstein, Marawan Abu-Madi, Ramo ´n C. Soriguer, Scott Fitzgerald, Xing-Quan Zhu, Werner Zimmermann, Uade Samuel Ugbomoiko, Kurtis Jai-Chyi Pei, Jorg Heukelbach. 2011. Sarcoptes-World MolecularNetwork(Sarcoptes-WMN): integrating research on scabies. International Journal of Infectious Diseases. 15: 294-297.**

P50. Lusat, J., Bornstein, S. and Wall, R. **2011**. Chorioptes mites: re-evaluation of species integrity. *Medical and Veterinary Entomology*. 25 (4), 370-376.

P51. Samer Alasaad, Ndeereh, H., Rossi, L., Bornstein, S., Permuniyan, R., Soriguer, R.C., Gakuya, F. **2011**. The opportunistic *Sarcoptes scabiei*: A new episode from giraffe in the drought-suffering Kenya. *Veterinary Parasitology*. Short communication. Do: 10.1016/j.vetpar.2011.10.039, 5pp

#### **Letters to Journals**

L:1. Bornstein, S. Mange in domesticated rats. *Veterinary Record*, January 4, 1997: 28.

#### **Articles in not peer-reviewed international journals:**

**Q:1. Bornstein, S. Camel health and disease. Camel Forum working paper No. 3. Somalia Academy of Sciences and Arts. 1984.**

**Q:2. Hersi, G. A. & S. Bornstein. B-vitamins cured a case of Wryneck syndrom (*Shimbir or Gudaan*) in a camel. Camel Newsletter, ACSAD. 1986; 3: 2.**

**Q:3. Hersi, G. A. & S. Bornstein. Pilot study of the health of Somali camel herds. Camel Forum, Working paper; No: 23. Somalia Academy of Sciences and Arts. 1987.**

**Q:4. Abdurahman, O.S., Bornstein, S., Osman, Kh.Sh., Abdi, A.M. & Zakrisson, G. Prevalence of mastitis among camels in southern Somalia: A pilot study. Camel Forum, Working paper No:37. 1991.**

Q:5. Bornstein, S. Serodiagnostic de la gale Sarcoptique du Porc. Proceedings of the Rencontres Internationales de Production Porcine, Synthèse Élevage. 7th June 1996, Loudéac, France, 115-119.

Q:6. Bornstein, S., Mattsson, J.G., Zakrisson, G. & Ugglå, A. Diagnosis of Sarcoptic mange in pigs: Present and future. A Pfizer Symposium at the 15th International Conference of the World Association for the Advancement of Veterinary Parasitology, August 31, 1995. Yokohama, Japan. pp. 13-16.

Q:7. Bornstein, S. The future - use of sensitive diagnostic tools. *Misset Pigs*, An international magazine on pig keeping. June 1996: 26-27.

Q:8. Bornstein, S. Serodiagnostico de la sarna sarcoptica del credo ("Serodiagnosis of sarcoptic mange in swine"). *Revue Anaporc*. 1996: 161; 73-76.

Q:9. Bornstein, S. Serodiagnosis of sarcoptic mange in pigs. Cost 833 (EU). Action on mange and myiasis in livestock, Working Group. Aristotle University, Thessaloniki, Greece. 1998. Abstract; pp 1-4.

Q:10. Bornstein, S. Sarcoptic mange in dogs. *Veterinary Times*, October 2000.

Q:11. Bornstein, S. & Näslund, K. Serological diagnosis of sarcoptic mange of Felidae. COST Action 833 (EU), Proceedings of the Mange and myiasis of livestock workshop, University of Bari, Italy. 2002.

**Publications (papers) in Svensk Veterinärtidning (the Swedish Veterinary Journal) in Swedish with English summary.**

- P(Sw:1): 54. Bornstein, S. `Hermafrodisism`-en översikt (Hermaphroditism - an overview). Svensk Veterinärtidning (the Swedish Veterinary Journal), 1965; 1-2: 1-8.
- P (Sw2):55. Henrikssen, B. & S. Bornstein. Arvsdisponerande navelbräck hos katt (Hernia of the navel in cats). Svensk Veterinärtidning 1965; 17: 1-3.
- P(SW:3):56. Bornstein, S. Intryck från en kurs i tropisk veterinär medicin i Edinburgh (Impressions from a tropical course in Veterinary medicine in Edinburgh). Svensk Veterinärtidning 1968; 20: 1-6.
- P(SW:4):57. Bornstein, S. Venezuela-hästencephalit (horse encephalitis). Svensk Veterinärtidning 1972; 24: 345-347.
- P(SW:5):58. Bornstein, S. Tropisk veterinärmedicin för laboratorieveterinärer Tropical Veterinary Medicine for laboratory veterinary officers). Svensk Veterinärtidning 1976; 28: 611-613.
- P(SW:6):59. Bornstein, S. En aktuell herpesvirusinfektion på hund- en litteraturöversikt (A herpesvirus infection in dogs). Svensk Veterinärtidning 1977; 29: 137-142.
- P(SW:7):60. Bornstein, S., Jonsson, G. och Kvarnfors, E. **Neonatal virusinfektion** på hund, en fallstudie (A neonatal virus infection of dogs – a case study). Svensk Veterinärtidning 1977; 29: 173-179.
- P(SW:8):61. Bornstein, S. Cryptosporidier, ett aktuellt sjukdomsagens (**Cryptosporidiae**, a significant pathogen). Svensk Veterinärtidning 1985; 37: 21-23.
- P(SW:9):62. Viring, S., Bornstein, S., Jacobsson, S-O. & C-H. Ström. C-H. Cryptosporidier påvisade vid ett besättningsutbrott av kalvdiarré (**A report of Cryptosporidiae sp. outbreak in calves**), the first in Sweden . Svensk Veterinärtidning 1985; 37: 24-26.
- P(SW:10):63. Hellström, A., O. Ljungberg & S. Bornstein. *Anguillicola*, en ny ålparasit i Sverige (*Anguillicola*, a new parasite of eels). Svensk Veterinärtidning 1988; 40: 211-213.
- P:(SW:11) 64. Linder, A., S. Bornstein., J. Carlsson., P. Salomonsson & P. O. Nilsson. Fallbeskrivning. *Trypanosoma theileri* - återupptäckt parasit i Sverige (***Trypanosoma theileri*, a rediscovered parasite in Sweden**). Svensk Veterinärtidning 1990; 42: 507-509.
- P (SW 12) 65. Bornstein, S & G. Zakrisson. Ny diagnostik av hundens rävskabb (*Sarcoptes scabiei*) (**A novel diagnostic method of sarcoptic mange in dogs**). Svensk Veterinärtidning /the Swedish Veterinary Journal). 1990; 42: 180-181.
- P (SW 13):66. Bornstein, S. " Parasitologisk kommentar" till artikel av Räf, P. O. När adjunkt Lithander skulle bota hästskabb i Stenstorp (`When lecturer Lithander was to cure sarcoptic mange in horses at Stenstorp, Sweden; a comment from a parasitological point of view``). Svensk Veterinärtidning 1992; 44: 375-377.
- P (SW 14):67. Christensson, D., Rehbinder, C., Bornstein, S., Zakrisson, G. & Christensson, B. Rapport från ett forskningsprojekt om *Pneumonyssus caninum* (report of a research project of *Pneumonyssus caninum*). Svensk Veterinärtidning 1993; 45: 313-314.

P (SW15):68. Rehbinder, C., Christensson, D., Bornstein, S., Zakrisson, G. & Christensson, B. *Pneumonyssus caninum* - ett kvalster i huvudets luftvägar hos hund (*Pneumonyssus caninum* – a mite in the airspace of the heads of dogs). Svensk Veterinärtidning 1994; 46: 489-495.

P (SW 16):69.Kugelberg, C., Johansson, G., Sjögren, U., Bornstein, S. och Wallgren, P. Infektionssjukdomar och ektoparasiter hos slaktsvin. Svensk Veterinärtidning. 2001. 53; 197-204.

P SW17): 70. **Bornstein, S och K. De Verdier. De Sydamerikanska kameldjuren The South American Camelids**.. Svensk veterinärtidning (Swedish Veterinary Journal), 2010: (5); 137-42.

P (SW18): 70. de-Verdier, K, och **Bornstein, S.** Alpackor i Sverige – en ny utmaning (en enkätstudie 2008). (**Alpacas in Sweden – a new challenge**). Svensk veterinärtidning (Swedish veterinary Journal), 2010. 1;19-23.

P (SW 19): 71. de-Verdier, K., Sandros, B., Christensson, D., Osterman-Lind, E., Lindqvist Frisk, K., **Bornstein, S.** Lilla leverflundran – första fallet hos alpaca i Sverige (**The first case of the lancet fluke (*Dicrocoelium dendriticum*) in Swedish alpacas**). Svensk veterinärtidning (Swedish Veterinary Journal), 2011. 63: (10); 11-16.

#### **Other articles in Swedish journals and magazines:**

P:72. Bornstein, S. Serumpepsinogenbestämning - metod att diagnosticera bovin ostertagios (Testing for serum pepsinogen – a method to diagnos ostertagiosis). SVAVET 1987; 2: 12.

P:73. Bornstein, S. Giardia hos hund (Giardia in dogs). SVAVET 1990; 4: 20.

P:74. Bornstein, S. Rävskabb (``Fox scabies``). Temanummer om vilt. SVAVET 1992; 4: 36-42.

P:75. Bornstein, S. Kamelen - ett naturens underverk. (**The camel-one of the miracles of nature**) Kritan (a journal for libraries), January 1994; 18.

P:76. Bornstein,S., & L. Gunnarsson. Mer om rävskabb (More about ``fox scabies``). Rapport 1995; 4; 30.

P:77. Bornstein, S. & J. Mattsson. Projekt sarkoptesskabb Sarcoptic mange project). Svammel 1996; 5: 6-7.

P:78. Bornstein,S. Sarkoptesskabb på svin (Sarcoptic mange of pigs), Agria, 1996; 1: 12-13.

P:79. Bornstein, S. Sarkoptesskabb hos hund, räv och svin (Sarcoptic mange of dogs and pigs), Rapport, 1996; 2: 11-13.

P:80. Bornstein,S. Sarkoptesskabb på hund Sarcoptic mange of dogs), Agria, 1996; 2: 12-13.

P:81. Bornstein, S. Sarkoptesskabb på svin (Sarcoptic mange of pigs). Fakta-Forskning & Försök-, Svinskötsel. 1997; Nr. 10;10-12.

P:82. Bornstein, S. Förenklade saneringsmodeller riktade mot svinskabb och hur effekten av sådana modeller kan kontrolleras med serologi (ELISA) (**Simple eradication models against sarcoptic mange of swine and how such models can be monitored by ELISA**). SVAvet, 1998. No. 1-2: 16-22.

P: 83. Bornstein, S. 2005. Sarcoptesskabb (sarcoptic mange). SVA´s kurs om infektionssjukdomar hos hund och katt (part of a course of infectious diseases of dogs and cats). pp: 117-122.

### **Books and chapters in books containing both scientific and science for the laymen:**

B:1. Bornstein, S. **Camels in Africa- an undeveloped resource**. In: The exploitation of animals in Africa. Proceedings of a Colloquium at the University of Aberdeen, Scotland. March 1987. Ed; Stone, J- S. Aberdeen University African Studies group 1988. 127-142.

B:2. Bornstein, S. **The case of African drylands and balanced camel production**. A veterinary point of view. In: Camels in development. Sustainable production in African drylands. Edited: A. Hjort af Ornäs. Scandinavian Institute of African Studies, Uppsala. 1988. pp 97-104.

B:3. Bornstein, S. Kamelen. Ett av Guds underverk. (**The Camel. One of g-ds miracles**).. Stockholm. 1993: 101-119.

B:4 Bornstein, S. **Camel health and disease**: veterinary projects. In multi-purpose camel: interdisciplinary studies on pastoral production in Somalia. Ed: A. Hjort af Ornäs. 1993: 189 - 205.

B:5. Bornstein, S. **Skin diseases of camels**. In Camel Keeping in Kenya. Eds; Evans, J.O., Simpkin, S.P. and Atkins, D.J. Range management Handbook of Kenya, 1995; Vol. III, 8. Chapter 7.2: 7 - 14.

B:6. Book:1. Odöö, H. & S. **Bornstein**. Fakta om kameler (**Facts about camels**). 1993. 48 pp. Almqvist & Wiksells förlag. Stockholm.

B:7. Book:2. Bornstein, S & A. Lilburn. Fakta om bäver, grävling, rödräv och utter (Facts about beaver, badger, red fox and otter).1994. 48 pp. Almqvist & Wiksells förlag. Stockholm.

B: 8. **Bornstein**, S., Mörner, T. & Samuel, B. 2001. **Sarcoptes scabiei and sarcoptic mange**. In: **Parasitic Diseases of Wild Mammals**. Eds: Samuel, W.M., Pybus, M.J. & Kocan, A.A. 2<sup>nd</sup> ed. Iowa State University Press/Ames, USA. 107-119.

B:9. Bornstein, S. 2001. **Mange**. In: **A field manual of camel diseases**; Traditional and modern health care for the dromedary. Eds: Köhler-Rollefson, I., Mundy, P. and Mathias, E. ITDG Publishing, London. 254 pp.

B:10. Bornstein, S. **Parasitic Diseases, 2002** (pp. 267-387).. **In: Infectious Diseases in Camelids**. 2<sup>nd</sup> revised and enlarged edition. Eds: Wernery, U., Kaaden. O-R. Blackwell Science Berlin, Vienna.267-387.

### **Reports:**

Statistiskt utredningsuppdrag (statistical report) vid Hållsta, Sweden, 1968.

**Bornstein**, S. Klimatologiska förhållandens inverkan på kroppsfunction och spermogram hos tjurar i Kenya jämfört med tjurar i Sverige (**The study of the influence of climate on body function and sperms in ``exotic bulls`` in Kenya compared to Sweden**). SIDA's mindre forsknings och utrednings uppdrag (SIDA´s minor research project) nr 10 Oktober, 1969. pp: 25, (57 tables and 3 appendices).

**Bornstein, S. Report to SAREC on a disease survey of the Somali Camel Research Project - a pilot study. A seroepidemiological survey of some bovine infectious pathogens in camels in Somalia; bovine parainfluenza.3 virus (PIV-3) bovine viral diarrhoea virus (BVDV), infectious bovine rhinotracheitis virus (IBRV), *Brucella abortus* (*B. abortus*), and *Toxoplasma gondii* (*T. gondii*). 1988.**

Christensson, D.A., **Bornstein, S.**, Gustavsson, Nansen, P., Ndaomba, S.J., Söderlind, O., Zakrisson, G. och Örtenberg, E. Samspel mellan spolmasklarvens vandring genom lungan hos gris och olika lunginflammationsframkallande bakterier (Interactions between *Ascaris suum* and some pulmonary infections in specific pathogen-free pigs. Slutrapport (final report) över NKJ-projekt nr 59 till Nordisk Kontaktorgan för Jordbruksforskning. Parasitära infektioner hos gris (Parasitic infections in pigs). 1991: 106 - 109.

### **Thesis:**

A:1 **Bornstein, S.** The relationship between rainfall distribution and the peak incidence of parasitic gastro-intestinal infective larvae on sheep pasture. Paper submitted in partial fulfilment of the degree of **Master of Science, Tropical Veterinary Science**, University of Edinburgh, Scotland, 1975: pp 66.

A:2. **Bornstein, S. *Sarcoptes scabiei* infections of the domestic dog, red fox and pig: Clinical and serological studies. PhD thesis, Swedish University of Agricultural Sciences, Uppsala, Sweden. 1995. ISBN 91-576-4951-0.**

### **Academic teaching and supervision:**

A:3. Ndaomba, Sh.J. Possible interactions between *Ascaris suum* and some pulmonary infections in specific pathogen-free pigs - A histopathological study. MSc thesis, Swedish University of Agricultural Sciences, Uppsala, Sweden. 1989. ISBN 91-576-3868-3.

The above thesis is based on three papers:

I. Ndaomba, Sh.J., Christensson, D., Bornstein, S., Nilsson, P.O. & Zakrisson, G. Interaction between *Ascaris suum* and *Mycoplasma hyopneumoniae* in specific pathogen-free pigs.

II. Ndaomba, Sh.J., Christensson, D., Bornstein, S., Nilsson, P.O. & Zakrisson, G. Interaction between *Ascaris suum* and *Actinobacillus (Haemophilus) pleuropneumonia* in specific pathogen-free pigs.

III. Ndaomba, Sh. J., Gustavsson, K., Christensson, D., Bornstein, S. & Nilsson, P.O. Interaction between *Ascaris suum* and *Pasteurella multocida* in specific pathogen-free pigs.

### **Papers at scientific meetings:**

C:1. Bornstein, S. **Artificial insemination development in Kilimanjaro region:** Veterinary and Agricultural Annual Conference, Moshi, Tanzania. 23-26th August 1971.

C:2. Bornstein, S. **The epidemiology of *Sarcoptes scabiei*** in wild red foxes (*Vulpes vulpes*) in Sweden. 5th International Conference on Wildlife Diseases, 11-14 August 1985. Uppsala, Sweden.

C:3. Bornstein, S. Rävskabb (Sarcoptic mange in red foxes). Allmänt Veterinärmöte (the annual National Veterinary Meeting), Stockholm. 1985. 89-94.

- C:4. Bornstein, S. Sarcoptic mange of red fox (*Vulpes vulpes*) in Sweden. Nordiskt Acarologi Symposium, 12-13 Maj 1986. Naturhistoriska Riksmuseet (the Museum of Natural History), Stockholm. (Poster)
- C:5. Malmberg, G. & S. Bornstein. Some features seen by SEM of the *Speleorodens clethrionomys* - a nasal mite of hamsters (*Mesocricetus auratus*). Poster. Nordiskt Acarologi Symposium, 12-13 Maj 1986. Naturhistoriska Riksmuseet (see above), Stockholm. (Poster).
- C:6. Bornstein, S., E. Rivera & G. Zakrisson. Sarcoptic mange in red fox in Sweden - a clinical and immunological pilot study. Workshop on the biology of small carnivores, Grimsö Wildlife Research Station. 26 November 1986.
- C:7. Bornstein, S., E. Rivera & G. Zakrisson. Sarcoptic mange of red fox - a clinical and immunological pilot study. Proceedings of the XIII Symposium of the Scandinavian Society for Parasitology, 12-14 June. Helsinki, Finland, 1987.
- C:8. Bornstein, S. The current situation on camel diseases in Africa. Workshop on camel management and ecology. 11-12 June 1987. Landskrona, Sweden.**
- C:9. Bornstein, S. Sarcoptic mange of camels. The Fourth International Congress of Somali Studies. Mogadishu, Somalia. July 1987.**
- C:10. Bornstein, S. A disease survey of the Somali camel. The Fourth International Congress of Somali Studies. Mogadishu, Somalia. July, 1987.**
- C: 11. Bornstein, S. Important diseases of the Somali camel. Seminar on the Biology, Pathology & Husbandry of the Camel. Faculty of ``Zootecnia`` and Veterinary, University of Somalia, Mogadishu, Somalia, 28<sup>th</sup> November – 1<sup>st</sup> of December, 1988.**
- C:12. Bornstein, S. Comparison of seroepidemiological findings of antibodies to some infectious pathogens in camels in Sudan and Somalia with reference to findings in other countries of Africa. The 50th anniversary of the Veterinary Faculty of Sudan and the International Symposium of the development of animal resources in the Sudan. 3-7 January 1988, Khartoum, Sudan.**
- C:13. Bornstein, S. Sarcoptes kabb på fjällrävar-diagnos och behandling. (Sarcoptic mange in Arctic foxes – diagnosis and treatment). Wildlife Disease Association, Nordic Section., 9-10 April, 1988. Kolmården, Sweden.
- C:14. Mörner, T., S. Bornstein & G. Ericsson. Successful treatment of wild Arctic fox (*Alopex lagopus*) infected with *Sarcoptes scabiei* var. *vulpes*. 37th Annual Conference of the Wildlife Disease Association, 7-11 August, 1988. Athens, Georgia, USA. 29.
- C:15. Bornstein, S. Rävskabb på hund i Sverige (Canine sarcoptic mange in dogs). Veterinärdermatologiska sällskapets möte, 14-16 oktober 1988. Vingåker, Sweden.
- C:16. Bornstein, S. Pågående serologiska studier över rävskabb-infektioner hos hund (Current serological studies on *Sarcoptes scabiei* infections on dogs). Veterinärdermatologiska sällskapets möte meeting of the Veterinary Dermatology Association), 3 - 5 Februari 1989. Karlstad, Sweden.
- C:17. Bornstein, S. The ship of the desert. - The dromedary camel (*Camelus dromedarius*), a domesticated animal species well adapted to extreme conditions of aridness and heat. Abstract. The 5th International Reindeer/Caribou Symposium. 18-22 August, 1989. Arvidsjaur, Sweden.**

**C:18. Bornstein, S. The virtues of the camel (*Camelus dromedarius*). Abstract. The first National workshop on camels as food system in Ethiopia, 25-27 April 1989. Nazreth, Ethiopia.**

C:19. Bornstein, S & G. Zakrisson. Demonstration of antibodies to Sarcoptic mange in experimentally infected SPF-pigs. 14th Symposium of the Scandinavian Society for Parasitology. 2-4 August. 1989. Elsinore, Denmark.

C:20. Dirie, M.F., Bornstein, S., Wallbanks, K.R. Molyneux, D.H. & Steen, M. **Trypanosome isolates from Swedish cervidae.** 14th Symposium of the Scandinavian Society for Parasitology. 2-4 August. 1989. Elsinore, Denmark.

C:21. Dirie, M.F., Wallbanks, K.R. Bornstein, S. & Molyneux, D.H. **Characterization of Megatrypanum trypanosomes. Spring meeting of the British Society for Parasitology,** 4-6 April. 1990. University of Aberdeen, Scotland.

**C:22. Abdurahman, O.A.Sh., & S. Bornstein. Diseases of camels (*Camelus dromedarius*) in Somalia and prospects for better health. Somali Camel Research Project: Workshop on: Local knowledge and improved camel rearing. 24-25 May, 1990. Agadir, Morocco.**

C:23. Bornstein, S. & Zakrisson, G. Antibodies detected by ELISA, the clinical course and symptoms in spontaneous *Sarcoptes scabiei* infected neonatal pigs. Proceedings of the 15th Symposium of the Scandinavian Society for Parasitology, 4-5 October, 1991. Uppsala, Sweden. Bulletin of the Scandinavian Society for Parasitology; 1: 160.

C:24. Bornstein, S., Nilsson, P.O., Bladd, G.M. & Vazina, J.K. **The epidemiology of *Trypanosoma theileri* on a Swedish dairy farm and experimental infection of calves.** Proceedings of the 15th Symposium of the Scandinavian Society for Parasitology, 4-5 October, 1991. Uppsala, Sweden. Bulletin of the Scandinavian Society for Parasitology; 1: 29.

C:25. Zakrisson, G & Bornstein, S. Serodiagnosis of sarcoptic mange in dogs. Proceedings of the 15th Symposium of the Scandinavian Society for Parasitology, 4-5 October, 1991. Uppsala, Sweden. Bulletin of the Scandinavian Society for Parasitology; 1: 45.

C:26. Abdurahman, O.S. & S. Bornstein. **Regional cooperation in fighting animal diseases in the Horn of Africa; lessons from Rinderpest campaigns in Africa.** The International Conference on Environmental Cooperation in the Horn of Africa, 9-12 July. 1991; Sigtuna, Sweden.

**C:27. Bornstein, S. Kamelens roll för livsmedelssäkerhet på hushållsnivå (The role of camels in food security of households). Paper given at the seminar "Food security i U-landsforskningen" (Food security in research of the developing world) at Uppsala livsmedels centrum, Sweden, 19<sup>th</sup> of September 1991.**

**C:28. Bornstein, S, Sarcoptic mange in camels and wildlife. The Silver Jubilee Conference of the Kenya Veterinary Association, 22-24 April, 1992. Kabete, Kenya.**

C:29. Feinstein, R.E., Bornstein, S. & Christensson, B. Ear mange in rats: A case report. Abstract; Scand.-LASand MSFI joint Symposium, "Laboratory animals today and tomorrow". 11-13th June, 1992; Djurönäset, Stockholm.

C:30. Bornstein, S. & Zakrisson, G. Demonstration of antibodies to *Sarcoptes scabiei* in experimentally infected pigs and of maternal antibodies in piglets. Abstract; VIth European Multicolloquium of Parasitology, 7-11th September. 1992. The Hague, Netherlands.

- C:31. Bornstein, S., Gupta, R. K., Mengiste, B. & Lindberg, R. Clinical picture and histopathological lesions in rats naturally infected with *Notoedres muris*. Bulletin of the Scandinavian Society for Parasitology 1993; 3: 55.
- C:32. Bornstein, S., Thebo, P. & G. Zakrisson. Clinical picture and serum antibody response in experimental *Sarcoptes scabiei* var. *vulpes* infection in the red fox (*Vulpes vulpes*). 14th International Conference of the World Association for the Advancement of Veterinary Parasitology. 8-13th August 1993. St John's College and Magdalene College, Cambridge, England.
- C:33. Gullan, F. M. D. ed: **Workshop summary: Wildlife situations**. 14th International Conference of the World Association for the Advancement of Veterinary Parasitology. 8-13th August 1993. St John's College and Magdalene College, Cambridge, England. Veterinary Parasitology 1994; 54: 283-286.
- C:34. Bornstein, S. Röken, B., Lindberg, R. & Krüger, T. Sarcoptic mange of lynx (*Felis lynx*): an experimental infection with *Sarcoptes scabiei* var. *vulpes*. Annual meeting of the Wildlife Disease Association, Nordic section, Åland, 1994.
- C:35. Mattsson, R. & S. Bornstein. Bakteriologisk och mykologisk undersökning av *Sarcoptes scabiei* infekterade vilda rödrävar (*Vulpes vulpes*) (**Bacteriological and mycological investigations of red foxes infected by *Sarcoptes scabiei***). Annual meeting of the Wildlife Disease Association, Nordic section, Åland, 1994.
- C:36. Bornstein, S., Fellström, C., Thebo, P & Wallgren, P. **Eradication of sarcoptic mange** in a herd of pigs monitored by skin scrapings and ELISA. Proceedings of the 13th International Pig Veterinary Society Congress, 26-30 Juni. 1994. Bangkok, Thailand. 251. (Poster).
- C:37. Bornstein, S. Serodiagnosis of sarcoptic mange of dogs. Abstract. Symposium, 40 jahrestagung, Fachgruppe Kleintierkrankheiten der Deutschen veterinär-medizinischen Gesellschaft, 15-18 September. 1994. Dresden, Germany. (Also presented a poster).
- C:38. Bornstein, S., Thebo, P. and G. Zakrisson. Characterization of the antigen employed in the ELISA for the diagnosis of sarcoptic mange in dogs. 15th Symposium of the Scandinavian Society for Parasitology. 15-17 June. 1995, Jyväskylä, Finland. Bulletin of the Scandinavian Society for Parasitology 1995; 5: 37.
- C:39. Bornstein, S., Lindberg, R., Mengiste, B. & Gupta, R. K. Notoedric mange in the rat (*Rattus norvegicus*): Clinical picture and histopathological findings in *Notoedres muris* infection. Annual meeting of the Wildlife Disease Association, Nordic section, 21 - 24th. May, 1995. St. Karlsö, Sweden.
- C:40. Bornstein, S., Mattsson, J., Zakrisson, G. & Uggla, A. Diagnosis of Sarcoptic mange in pigs. Present and future. A Pfizer Symposium at the 15th International Conference of the World Association for the Advancement of Veterinary Parasitology, August 31, 1995. Yokohama, Japan. 13-16.
- C:41. Bornstein, S. Serodiagnostic de la gale Sarcoptique du Porc. Proceedings of the Rencontres Internationales de Production Porcine, Synthèse Élevage. 7th June 1996, Loudéac, France, 115-119.
- C:42. Bornstein, S. & P. Wallgren. Serum antibody responses to *Sarcoptes scabiei* infections in young pigs following acaricidal treatment. Proceedings of the 14th International Pig Veterinary Society Congress, 7-10 July. Bologna, Italy. 1996. 355.

- C:43. Bornstein, S. & Hämmerling, R. **Accuracy of a novel diagnostic ELISA** for sarcoptic mange in dogs in relation to atopy. The third World Veterinary Dermatology Congress, 11-14th September 1996, Edinburgh, Scotland. (Poster)
- C:44. Bornstein, S., Olson, P. & Hedhammar, Å. **Seroepidemiological study** of sarcoptic mange in dogs in Sweden. III World Veterinary Dermatology Congress, 11-14th September 1996, Edinburgh, Scotland. (Poster)
- C:45. Mörner, T and Bornstein, S. *Sarcoptes scabiei* var *vulpes* infestation in lynx (*Lynx lynx*), pine marten (*Martes martes*) and wolf (*Canis lupus*) in Sweden. Abstract 2nd European Conference of Wildlife Disease Association, Wroclaw, Polen, 16-21st October; 1996. 19.
- C:46. **Bornstein, S., Thebo, P. and Zakrisson, G., Abu Samra, G.M.T. & Mohamed. G.E. Demonstration of serum antibody to *Sarcoptes scabiei* in naturally infected camels: A pilot study.** The first International Eilat Conference: Camelids: Science & Productivity. 15-19th December, 1996, Eilat, Israel. 42.
- C:47. Jacobson, M., Bornstein, S., Palmer, E. & Wallgren, P. 1997. **Eradication of *Sarcoptes scabiei*** using one or two treatments of Doramectin in swine herds with natural infestations of the disease. The 16th International Conference of the World Association for the Advancement of Veterinary Parasitology. 10-15th August, 1997, Sun City, South Africa.
- C:48. Wallgren, P. & Bornstein, S. The spread of porcine sarcoptic mange during the fattening period. The 16th International Conference of the World Association for the Advancement of Veterinary Parasitology. 10-15th August, 1997, Sun City, South Africa.
- C:49. Bornstein, S., Röken, B. & Lindberg, R. An experimental infection of a lynx (*Felis lynx*) with *Sarcoptes scabiei* var *vulpes*. The 16th International Conference of the World Association for the Advancement of Veterinary Parasitology. 10-15th August, 1997, Sun City, South Africa.
- C:50. Heinonen, M., Bornstein, S., Kolhinen, R., Tuovinen, V. & Saloniemi, H. Eradication of sarcoptic mange from swine herds joining a health class system. 9th International Congress in Animal Hygiene, 17-21st August 1997, Helsinki, Finland.
- C:51. Öhlen, B., Jönsson, L., Lindberg, R. & Bornstein, S. *Ixodes ricinus* in a intracutaneous abscess of a dog: A case report. 14th Annual Congress ESVD-ECVD, 5-7th September, 1997, Pisa, Italy.
- C:52. Bornstein, S. Sarcoptic mange of swine. Sbornik Prednasek Odborneeho Seminare. Hradec Kralove, Czeck Republic, 3<sup>rd</sup> April. 1998.
- C:53. Wallgren, P. and Bornstein, S. The spread of sarcoptic mange during the rearing of fattening pigs. Proceedings of the 15th International Pig Veterinary Society Congress, 6-9th July. 1998. Birmingham, England,
- C: 54. Jacobson, M., Bornstein, S., Palmer, E. and Wallgren, P. 1998. Eradication of *Sarcoptes scabiei* using one or two treatments of Doramectin in swine herds with natural infestations of the disease. Proceedings of the 15th International Pig Veterinary Society Congress, 6-9th July. 1998. Birmingham, England.
- C:55. Jacobson, M., Bornstein, S., and Wallgren, P. Experiences from eradication systems directed against *Sarcoptes scabiei*. Proceedings of the 15th International Pig Veterinary Society Congress, 6-9th July. 1998. Birmingham, England.

C;56. Bornstein, S. Serodiagnosis of sarcoptic mange in pigs. Cost 833 Action on mange and myiasis in livestock, Working Group. Aristotle University, Thessaloniki, Greece. 1998. Abstract; pp 1-4.

**C 57. Bornstein, S., Younan, M. and Feinstein, R. A case of neonatal camel colibacillosis. Abstract at the International Workshop on the young camel, October 1999. Quarzazate, Morocco.**

C 58. Saridomichelakis, M., Soubasis, N., Koutinas, A., **Bornstein, S.** and Liapi, M. Treatment of canine sarcoptic mange with fipronil monitored clinically and serologically. 16<sup>th</sup> Annual Congress of the ESVD-ECVD, 12-14<sup>th</sup> of August, 1999. Helsinki, Finland. P. 161.

**C 59. Younan, M., Kibor, A., Koske, J. and Bornstein, S. Tick bite lesions, A potential reservoir of mastitis pathogens for camels (*Camelus dromedarius*). The 2nd International Camelid Conference; Agroecconomics of camelid farming, 8-12<sup>th</sup> September, Almaty, Kazakhstan. 2000.**

C 60. Degiorgis, M.P., Bröjer, C., Hård af Segerstad, C., **Bornstein, S.**, Lutz, H., Hoffmann-Lehmann, R., Leutenegger, C., Berg, A.L., Bignert, A., Gavier-Widen, D. and Mörner, T. Assessment of health status of the free ranging lynx population in Sweden. 4th meeting of the European Wildlife Disease Association, 20-23 September, 2000. Zaragoza, Spain. p. 13.

C 61. Bornstein, S. Serodiagnosis of sarcoptic mange in pigs. In: Good, M., Hall, M.J., Losson, B., O'Brien, D., Pithan, K. & Sol, J. (eds.) Mange and Myiasis of Livestock. European Commission EUR 19209 EN, ISBN 92-828-9759-1. 2000. p. 174.

C 62. Bornstein, S., Eliasson-Selling, L. Näslund, K. & Wallgren, P. Evaluation of a serodiagnostic ELISA for swine sarcoptic mange. Proceedings of the 16th International Pig Veterinary Society Congress, Melbourne, Australia, 17-20 September, 2000.

**C 63. Bornstein, S., Younan, M., Wernery, U. & Kinne, J. Sarcoptic mange, a common disease of camels: experiences of two experimental studies. COST Action 833, Proceedings of the 3<sup>rd</sup> Annual Mange and myiasis of livestock workshop, Budweis, Czech Republic, 27-30 September, 3-6<sup>th</sup> of October. 2000.**

C 64. Chirico, J. % **Bornstein, S.** An invitro method to determine acaricidal effect on mites. In: Good, M., Hall, M.J., Losson, B., O'Brien, D., Pithan, K. & Sol, J. (eds.) Mange and Myiasis of Livestock. European Commission EUR 19209 EN, ISBN 92-828-9759-1. 2000. p. 174.

**C 65.. Bornstein, S., Koskey, J. and Kibor, A. Sarcoptic mange and results of experimental studies. Paper given at the camel seminar of the Egerton University, Njoro, Kenya, 21<sup>st</sup> of February, 2001.**

**C 66. Bornstein, S. Camel skin disease. Paper given at the camel seminar of the Egerton University, Njoro, Kenya, 21<sup>st</sup> of February, 2001.**

**C 67. Bornstein, S. 2002. Sarcoptic mange: A common disease in camels. Proceedings of the 8<sup>th</sup> Kenya Camel Forum. 2002. Past Present and Future: Does it fulfil the needs of camel owners? 12-15<sup>th</sup> march 2002. Elangata Wuas Ecosystem center, Kajiado District, Kenya. 78-81.**

C 68. Bornstein, S. & Näslund, K. 2002. Serological diagnosis of sarcoptic mange in cats. European Society of Veterinary Dermatology (ESVD) and European College of Veterinary

Dermatology (ECVD), 18<sup>th</sup> Annual Congress, Nice, France, 26 – 28<sup>th</sup> September, 2002. In: *Veterinary Dermatology*. 14 (5); 204.

C 70. Bornstein, S. Gidlund, K., Karlstam, E., Bergström, K., Zakrisson, G., Nikkilää, T., Bergvall, K., Renström, L., Mattsson, J.G. Sarcoptic mange epidemic in a cat population. Abstract to the 5<sup>th</sup> World Veterinary Dermatology Congress 2004. 25-28 August, Vienna, Austria.

C 71. Bornstein, S. Gaviers-Widen, D M. Rinder, Bröjer, C., Uhlhorn, H. & Ågren, E. Chorioptic ear mange in Moose (*Alces alces*). A pilot prevalence study in the Swedish wild moose population. 6th meeting of the European Wildlife Disease Association, 9<sup>th</sup>-12<sup>th</sup> September, 2004, Uppsala, Sweden.

C. 72. Mörner, T., Uhlhorn, H., Bröjer, C., Bernodt, K., Ågren, E., Gavier-Widen, D. & **Bornstein, S.** The introduction of sarcoptic mange in the red fox (*Vulpes vulpes*) population in Sweden and its ecological consequences – 30 years of experience.- Wildlife disease association. International conference June 26-July 1<sup>st</sup> 2005, Cairns, Australia. Proceedings, 54.

**C 73. Bornstein, S., Younan, M., Glueck, I., Thebo, P. and Mattsson, J. *Isospora orlovi* infections in dromedary camels: A common pathogen? Abstract (poster) at the World Association for the Advancement of Veterinary Parasitology (WAAVP), 16<sup>th</sup> –20<sup>th</sup> October, Christchurch, New Zealand. 2005.**

**C 74. Bornstein, S., Gluecks, I., Younan, M., Thebo, P., Mattsson, J. 2006. *Isospora orlovi* a common pathogen in scouring young calves (*Camelus dromedarius*) in Northern Kenya (2002-2004). Abstract (poster) at the 1<sup>st</sup> conference of International Society of Camelid Research and Development (ISOCARD), Al Ain, United Arab Emirates, April, 15-17. 2006.**

**C 75. Bornstein, S., Kinne, J., Younan, M., Wernery, U., Näslund, K., Koskey, J. 2006. Experimental studies on *Sarcoptes scabiei* in dromedaries (*Camelus dromedarius*). Abstract at the 1<sup>st</sup> conference of International Society of Camelid Research and Development (ISOCARD), Al Ain, United Arab Emirates, April, 15-17. 2006.**

**C 76. Gluecks, L.V., Younan, M., Podschun, R., Bornstein, S., Mueller, W. 2006. *Klebsiella pneumoniae* subsp. *pneumoniae* as a cause of septicaemia in camel calves up to twelve weeks of age in Northern Kenya. Abstract at the 1<sup>st</sup> conference of International Society of Camelid Research and Development (ISOCARD), Al Ain, United Arab Emirates, April, 15-17. 2006.**

**C 77. Gluecks, I.V., Younan, M., Bornstein, S., Mueller, W. 2006. Prevalence and pathogenicity of *Isospora orlovi* in Kenyan camel calves up to twelve weeks of age (2002-2003). Abstract at the 1<sup>st</sup> conference of International Society of Camelid Research and Development (ISOCARD), Al Ain, United Arab Emirates, April, 15-17. 2006.**

**C 78. Younan, M., Laemmler, Ch., Bishop., Bornstein, S. 2006. Notes on the epidemiology and genetics of pyogenic Steptococci in East African camels (*Camelus dromedarius*). Abstract at the 1<sup>st</sup> conference of International Society of Camelid Research and Development (ISOCARD), Al Ain, United Arab Emirates, April, 15-17. 2006.**

C. 79. Zahler-Rinder, M., Bornstein, S., Hestvik, G., Mattsson, R., Lindberg, R., Gavier-Widen, D., and Morrison, D. 2007. *Chorioptes* ear mites in moose (*Alces alces*): pathological and taxonomic investigations. Abstract at the 1<sup>st</sup> International Conference of the World Association for the Advancement of Veterinary Parasitology (WAAVP), 19<sup>th</sup> - 23<sup>th</sup> August. Gent, Belgium.

C. 80. Hestvik, G., Zahler-Rinder, M., Gavier-Widen, D., Lindberg, R., Mattsson, R., Morrison, D and Bornstein, S. 2008. A previously unidentified Chorioptes species infesting the outer ear canals of moose (*Alces alces*): Characterization of the mite and the pathology of infestation. Abstract: at the 57<sup>th</sup> Annual International Conference of the Wildlife Disease Association; Northern and Western Frontiers, August 3-8, 2008, Edmonton, Alberta, Canada.

C.81. Davidson, R.K., Bornstein, S., Handeland, K. 2008. Host/Parasite Adaptation seen during the course of a *Sarcoptes scabiei* Epidemic in Red Foxes (*Vulpes vulpes*) in Norway. Abstract: at the 57<sup>th</sup> Annual International Conference of the Wildlife Disease Association; Northern and Western Frontiers, August 3-8, 2008, Edmonton, Alberta, Canada.

**C.82. Bornstein, S. Ectoparasites in alpacas (*Vicugna pacos*).** Invited paper given (Abstract) at the Nordic Veterinary (NKVet) Symposium, 8<sup>th</sup>-9<sup>th</sup> September 2008. Parasite infections of domestic animals in the Nordic countries – emerging threats and challenges, Helsinki, Finland.

**C. 83. Bornstein, S. and K. de- Verdier. Important ectoparasites in alpacas (*Vicugna pacos*) and llama (*Llama glama*).** Abstract (Poster) at the Second Conference of the International Society of Camelid Research and Development (ISOCARD), Djerba Tunisia 12-14<sup>th</sup> March 2009.

**C.83. de-Verdier, K and Bornstein, S. Alpacas (*Vicugna pacos*) in Sweden: a new challenge.** Abstract at the Second Conference of the International Society of Camelid Research and Development (ISOCARD), Djerba Tunisia 12-14<sup>th</sup> March 2009.

**C84. Bornstein, S. Ectoparasites of Camelids. Alpaca.** Abstract at the International Alpaca meeting of the Australian Veterinary Alpaca Society Juli. 8<sup>th</sup>-12<sup>th</sup> 2009. Galway, Ireland.

**C.85. Bornstein, S. Information of the International Society of Camelids, Research and Development (ISOCARD).** Abstract at the International Alpaca meeting of the Australian Veterinary Alpaca Society Juli. 8<sup>th</sup>-12<sup>th</sup> 2009. Galway, Ireland.

**C.86. Bornstein, S. Information of the International Society of Camelids, Research and Development (ISOCARD).** At the Summer School of Health and Reproduction of South American Camelids of the Faculty of Veterinary Medicine, University of Padua, Italy and the Facultad de Zootecnia, Universidad Agraria La Molina, Peru; October 12<sup>th</sup>-16<sup>th</sup> 2009 at the Faculty of Veterinary Medicine, University of Padua, Italy.

**C.87. Bornstein, S. Ectoparasites of Camelids.** At the Summer School of Health and Reproduction of South American Camelids of the Faculty of Veterinary Medicine, University of Padua, Italy and the Facultad de Zootecnia, Universidad Agraria La Molina, Peru; October 12<sup>th</sup>-16<sup>th</sup> 2009 at the Faculty of Veterinary Medicine, University of Padua, Italy.

**C. 88. Bornstein, S. Significant veterinary research on the dromedary camels of Kenya: Past and Present. Address note at the International Camel Symposium; linking camel science and development for sustainable livelihoods: Garissa, Kenya, 7-12<sup>th</sup> June 2010.**

**C. 89. Bornstein, S. Information of ISOCARD, poster Wien, Oct 2010. Interdisciplinary Workshop on camels in Asia and North Africa in Vienna Austria, October 5-6 2010.** Presented a Poster on ISOCARD

C. 90. **Bornstein, S. Information of ISOCARD, poster at the 5<sup>th</sup> European Symposium on South American camelids and the 1<sup>st</sup> European Meeting on Fibre Animals, October 6-8, 2010, at Seville, Spain.**

**C. 91, Bornstein, S. Presented a paper on ISOCARD and the old world camels and their importance as food animals at the 5<sup>th</sup> European Symposium on South American camelids and the 1<sup>st</sup> European Meeting on Fibre Animals, October 6-8, 2010, at Seville, Spain..**

**Participation in scientific meetings and seminars:**

12th Scandinavian Symposium of Parasitology, Tromsø, Norway, 1985. 17-19th June.

**Workshop on holistic Resource Management (HRM)**, 15-17th December, 1986, Swedish University of Agricultural Sciences, Uppsala, Sweden.

**Camel Forum workshop Wamba/Samburu, Kenya**, 9-11th May 1986. Sponsored by the United Nations Environment Programme and the German Food Security Program.

**Seminar on Digestion, Digestion and Feeding of the Dromedary. Quargla, Algeria.** 22 February-1st March, 1988.

**International Conference on the Application of Biotechnology to Livestock in Developing Countries.** 3-7 September 1989. University of Edinburgh, Scotland.

**British Society for Parasitology, 25th Trypanosomiasis Seminar.** 13-14th September 1989. University of Glasgow, Scotland.

**Workshop: "Is it possible to improve the reproductive performance of the camel?"** Unite de Coordination pour l'Elevage Camelin. Paris, France. 10-12th September 1990.

Equine Dermatology; 24th May, 1995. Swedish Veterinary Dermatology Study Group (Skinnklubben, guest lecturer; Dr. S. White, Colorado State University, USA). SUAS, Uppsala.

**Water microbiology for the 21st century**, Post-workshop for the sixth Stockholm Water Symposium; 8th August 1996. One day programme. Designed for water industry management and regulatory authorities, Swedish Institute for Infectious Disease Control. Stockholm, Sweden.

**Seminars in Sweden (presenting papers on sarcoptic mange, diagnosis etc.)**

Sp:1 Svenska dermatologsällskapets möte (Swedish Society of **Dermatology**), Vingåker, 14-16/10 1988.

S:2. Svenska dermatologsällskapets möte (Swedish Society of **Dermatology**), Karlstad, 3-5/2 1989.

S:3. One day symposium in dog and cat's **dermatology**, Grand Hotel, Oslo, Norway. 16/8 1992. (Poster).

S:4. Swedish Veterinary **Dermatology** Study group, "Skinnklubben". 13-15 Maj 1993, Borgholm, Öland.

S:4. Swedish Society of **Dermatology workshop**, Stena Line; Göteborg-Kiel, 4-6/3 1994.

S:5. Swedish Society of **Dermatology workshop**, Öland 1994.

- S:6. Svenska djurhälsovårdens fortbildningskonferens, Uppsala, oktober 1995; Föredrag; Svinskabb-patogenes, epidemiologi och diagnostik (Sarcoptic mange of swine – pathology, epidemiology and diagnosis).
- S:7., Presentation of :``*Svinskabb diagnostik*`` (the diagnosis of sarcoptic mange in pigs), "Aktuella inslag från SVA". Allmänna Veterinärmötet Annual Veterinary Meeting) 1995, 15-17/11
- S:8. Swedish Society of Dermatology (Svenska dermatologsällskapetets möte), Karlstad, Jan. 1996. Paper; "Sarkoptesskabb hos hund, I Sverige också kallad rävs-kabb (Sarcoptic mange of dogs, also called fox-mange/scabies in Sweden)!
- S:9. Swedish Society of Dermatology (Svenska dermatologsällskapetets möte (Skinnklubben), Karlstad, Jan. 1996. Föredrag; Fall beskrivningar från Lotta Gunnarssons patienter, SLU, Uppsala".
- S:11. Svenska djurhälsovårdens fortbildningskonferens, Malmö 20-21/3, 1996. Föredrag; Svinskabb-epidemiologi och diagnostik.
- S:12. Swedish Society of Dermatology (Svenska dermatologsällskapetets möte (Skinnklubben), Toftaholm, 25-26:e april, 1997. Föredrag; *Ixodes ricinus* funnen subkutant i en abscess hos hund-fallbeskrivning. Medförf; B. Öhlen och L. Jönsson.
- S:13. Swedish Society of Dermatology (Svenska dermatologsällskapetets möte (Skinnklubben), Toftaholm, 25-26:e april, 1997. Föredrag; Sarkoptesskabb hos hund och människa-fallbeskrivning (Sarcoptic mange of dogs and scabies in people-case studies). Authors; H.L. **Raue & S. Bornstein.**
- S. 14. Bornstein, S. Sarcoptic mange of swine:-Live-cycle and sero-diagnostic methods (Means to monitor eradication programs against the *Sarcoptes scabiei* infection in swine herds). Pfizer-Seminarium-Aktuell svinparasitologi, 15-16 september 1998, Novotel Göteborg.
- S. 15. Bornstein, S. Serologisk Diagnostik av *Sarcoptes scabiei* infektioner på katt (Serological diagnosis of *Sarcoptes scabiei* infections in cats).Swedish Society of Dermatology meeting (Svenska dermatologsällskapetets (Skinnklubben) möte), Mälaröarna 2002.
- S. 16.** Ugglå, A., Bornstein, S., Chirico, J., Höglund, J., Leemans, I., Waller, P. **Combatting parasites of livestock in developing countries** – Swedish Involvement. Paper presented at a SIDA seminar. Stockholm, January **2004**,
- S. 17. Bornstein, S. Utbrott av *Sarcoptes scabiei* infektioner på katter (Outbreak of sarcoptic mange in cats).Swedish Society of Dermatology (Svenska dermatologsällskapetets (Skinnklubben) höstmöte, 2004.
- S. 18. Seminarieriserie om hund och katt vid SVA: Utbrott av *Sarcoptes scabiei* infektioner på katter (Sarcoptesskabb i en kattgrupp – en fallbeskrivning) (Outbreak of sarcoptic mange in cats in a household – case study). 26:e Oktober, 2004.
- S. 19. Bornstein, S. Sarkoptesskabb. Infektionssjukdomar hos hund och katt – inhemska sjukdomar (Sarcoptic mange. Infectious diseases in dogs and cats; in Sweden)- SVA, Uppsala 2005-04-15-pp117-28.

**S. 20. The Old- and New World Camelids; their ancestry, biology, behaviour and diseases. A series of seminars** (3 x 2hrs) Autumn semester of **2007**, the Swedish University of Agricultural Sciences (SUAS) & the Swedish Veterinary Institute (SVA/I).

**Supervised student-exams (Handledda fördjupningsarbeten):**

Melangen, T. *Sarcoptes scabiei* smitta i en hundpopulation - undersökning med serologisk metod. (*Sarcoptes scabiei* infections in a dog population – investigation employing serological methods), 1994. Handledare (**supervisor**); **S. Bornstein**.

Fridén, S. Sarkoptesskabb och noskvalsterinfektion hos hund. En litteraturgenomgång och en fältstudie på 43 engelska hundar (Sarcoptic mange and nasal mite infestations of dogs. A literature review and a field study on 43 dogs in England). 1999. Handledare (**supervisors**): Gunnarsson, L. och **Bornstein, S.**

**Supervised paraklinical seminars (Handledda parakliniska seminarier):**

Johansson, R., Mörne, E. Sandin, E. & Sjöholm, B. Rävskabb (Sarcoptic mange of dogs/red foxes). 1994. Parakliniskt seminariearbete, SLU. Handledare (**supervisors**); **S. Bornstein & T. Mörner**.

Johansson, M., Väisänen, T., Borell, H. & P. Griffelcrona. *Pneumonyssus caninum*. 1995. Parakliniskt seminariearbete, SLU. Handledare (**Supervisors**); **S. Bornstein & D. Christensson**.

Bonnevier, A., Garping, C., Hallberg, C. & Nord, U. Giardia - en litteraturstudie (-a literature review). 1995. Parakliniskt seminariearbete, SLU. Handledare (**supervisor**); **S. Bornstein**.

Björnefot, H., Bransell, P. & Ordell, J. Sarkoptesskabb (Sarcoptic mange). 1997. Parakliniskt seminariearbete, SLU. Handledare (**supervisor**); **S. Bornstein**.

**Supervised examinations (Handledda examensarbeten):**

Hult, H. Fotskabb hos häst (Chorioptic mange in horses), Examensarbete för specialistkompetens I hästens sjukdomar. (examination as part of specialization for the diseases of horses, SUAS, Uppsala. 2001. pp 15. Handledare (**supervisor**); **Bornstein, S.**

Pettersson, Å. Evaluering av en ELISA för att påvisa antikroppar mot *Sarcoptes scabiei* hos katter och lodjur (Evaluation of an ELISA to demonstrate specific antibodies to *Sarcoptes scabiei* of cats and lynx). Biomedicinsk Laboratorievetenskap, 61-80 p. (examination for university degree in Biomedical laboratory Sciences at the University of Uppsala). At SVA, Uppsala. Handledare(supervisors); Näslund, S., Zakrisson, G. & **Bornstein, S.** 2001. pp 23.

Nordenberg, Å. Evaluation of a serodiagnostic test of sarcoptic mange in red foxes. Exam work, 10 academic points, at the Section for training of Biomedical laboratory analysts, Department of Medical Biochemistry and Mikrobiology, Uppsala University. Handledare (**supervisor**); **Bornstein, S. & Zakrisson, G.** 2002.

**Fant, D.** Prevalens av *Sarcoptes scabiei* hos thailändska gatuhundar (The prevalens of *Sarcoptes scabiei* infection of street dogs in Thailand). Exam work, SUAS, Vet Fac., 2005. Handledare (**supervisors**); Anna Lunden (Inst för biomedicin och veterinärfolkhälsovetenskap, Dep of Parasitologi och Virologi), och/and Set **Bornstein** (Dep. of. Parasitologi, SVA). Pp;15.

**Minor Field studies of SIDA:**

Trägårdh, C. **A pilot study of the health status of camels in Syria. 1994.** Arbetsrapport 225, SLU/IRDC. Handledare (supervisors); S. Bornstein, & M. F. Wardeh.

Svensson, G. 2001. Tickbites in camels, ticks as a potential vector for *Streptococcus agalactiae*. **Supervisors; Bornstein, S.** and Dolan, T.

Brolin-Schlanger, L. **Prevalence of external parasites in alpacas and llamas in Andean Ecuador. 2004.** Minor field study. SLU/IRDC. Handledare (supervisors Bornstein, S., Moreno-Lopez, J. & Toledo, D.

**Member of the examination board of PhDs at the Swedish University of Agricultural Sciences (SUAS), Uppsala, Sweden:**

1/ Lotta Gunnarsson, 1999

2/ John Githiori, 2004

3/ Erland Ljunggren, 2005

**Courses:**

For veterinary students, International postgraduate courses in `veterinary pathology`; on camel and their diseases at the Swedish University of Agricultural Sciences (SUAS), France etc.

**Seminars on the biology, behaviour and diseases of South American Camelids for SUAS and SVA September-December 2007.**

**The virtues and constraints of camels in Kenya; focus endemic disease.** Paper given at Kenya Agricultural Research Institute (KARI) 9<sup>th</sup> of December **2008**. Nairobi, Kenya.

Ecto and endo parasites of Alpaca, seminar for Swedish veterinarians. November 21<sup>st</sup>-22<sup>nd</sup> 2011. SVA, Uppsala, Sweden.

**SIDA-courses at SVA: employed as teacher in Parasitology:**

1985-11-11-15.

1986-05-20-22.

1987-11-09-20

**SUAS courses in Parasitology at the Vet fac; (1986-1994).**

**Teaching during my employment as Vet-officer in Tanzania, 1969-1971;**

**Teaching and tutoring/supervision of research was one of the main tasks as veterinary consultant to the Somali Camel Research Project , SAREC employment (1982-1989).**

**Various courses and seminaries at SVA, SUAS; for students and the general public in Sweden and abroad e.g. East Africa, Sudan, Somalia, Mauretania, India, Arab Emirates.**

´Camel diseases´ for the course; **Animal diseases in the Tropics**, organised by the Veterinary school of Toulouse and the department of Animal diseases of CIRAD, Montpellier, France. March 14<sup>th</sup>, **2003**.

**Previous employments:**

``Amanuens`` at the Dep. of Genetics at the `Kungl. Veterinärhögskolan` (Royal Academic school of Veterinary Studies) 1964-66 (2,5 years).

Military service (127 dagar) at the Swedish Cavalry, 1959, 1960, 1961

Also special (specialist) training at K1 (the cavalry batalion of Stockholm) 1965-66.

And special (specialist) training at the dog-school, Sollefteå 1965.

**Meat-inspector:** in Varberg 1968: 28 dagar.

Visby slakteri: 751124-751128 (5d).

kontr. slakteriet Sege 760705-760725 (25d).

kontr. slakteriet Bollnäs: 760726-760827 (33d)

kontr. slakteriet Bollnäs: 761018-761023 (6d).

**Distrikt Veterinary Officer in Sweden:** Filipstad 1964 (45 dagar).  
Gnesta; 1965 (27d).  
Västerås; 1968: (6 dagar).  
Tollarp; 760614-760704 (31 d).

**Work of investigation (epidemiology)** for SHS, Hällsta, 1968.  
`Assistant` (Assistant) at the Dep. of Obstetrics and Gynecology, Royal Veterinary School (Veterinärhögskolan), Stockholm 1968 (681004 - 681009, 681104-681231=64d).

**Veterinary Officer in Tanzania, 1969-1971;**

Distrikt vet in Tanga 1969-11-01-1970-03-31  
Distrikt vet in Korogwe 1970-04-01-197-004-30.  
Regional vet of Tanga 1970-05-01-1970-10-31.  
AI Vet-officer in Moshi, (AI-projekt Kilimanjaro).  
1970-10-01-1971-10-31.

**Laboratory Veterinarian at SVA;** Dep. of Epizootology; (1972-01-01-1972-09-30).  
Dep. of Pathology; (1972-10-01-1974-09-30).  
Dep. of Parasitology; (from. 1978-03-01-  
Ass. Prof. at the animal at the Dep. at **Huddingesjukhus** (part of the Karolinska Institute and Hospital) (1978-06-26,-1978-07-16, 1978-07-31-1978-08-04, 1979-06-18-1979-07-01).

**Veterinary consultant** for the Somali Camel Research Project , SAREC (1982-1989).  
Including particularly work in Somalia, but also in other countries in Africa and Asia.

**Privat practioner** small animals, Stockholm one year (1976)

**Work of investigation** for SAREC in Kenya (Camel research 2 weeks, April 1993).

**Guest researcher** at Environmental Policy and Society (EPOS), Tema V, Linköpings Universitet; 2 weeks, March 1996. (employment in Kenya).

**Member in Scientific Societies including veterinary:**

1. International Society of Camelid Resesarch and Development (also presently member of the executive board of the society)

**Previous member of the following societies::**

2. Scandinavian and Baltic Society of Parasitology
3. The Society of Veterinary Medical Research (Sällskapet för Veterinärmedicinsk Forskning)
4. European College of Veterinary Dermatology and European College of Veterinary Dermatology (ESVD, ECVD).
5. European Veterinary Parasitology College (EVPC)
6. The World Veterinary Parasitology Society (WAAVP)

Between 2003-2008; (De Facto Diplomate of the European Veterinary Parasitology College (EVPC).