

CURRICULUM VITAE: HERWIG LEIRS

Name : LEIRS
First names : Herwig Ernest Louis
Date of birth : 22 May 1963
Place of Birth : Turnhout (province of Antwerp, Belgium)
Nationality : Belgian

Marital Status : Married to Ann VRANCKEN
Children : Wannes (° 3 May 1994)
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Present Position : University of Antwerp, Dept of Biology (since 2001)
Full Professor ("gewoon hoogleraar")

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1. UNIVERSITY STUDIES

University of Antwerp, Belgium

- Doctor in de Wetenschappen (PhD Zoology) UIA
30 June 1992 - grandest distinction
- Licentiaat Dierkunde (Zoology) UIA (1983-1985)
First licentiate 3 July 1984 - grand distinction
Second licentiate 9 July 1985 - grand distinction
- Kandidaat Biologische Wetenschappen (Biology) RUCA (1981-1983)
First candidature 10 July 1982 - distinction
Second candidature 16 July 1983 - distinction
- High School Teaching Certificate UIA (1983-1985)
16 October 1985 - distinction
- Environmental Sciences UIA (1983-1985)
15 January 1986 - distinction

University of Reading, UK

- Vertebrate Pest Control Courses (partim Rodents, partim Birds), Dept. of Pure and Applied Zoology,
University of Reading, Reading, UK
3 July 1989 - 5 August 1989

2. LANGUAGE PROFICIENCY

Dutch : mother tongue
English : speaking, writing, reading fluently
Danish : speaking, writing, reading fluently (also reading Swedish and Norwegian)
French : speaking fluently, writing fairly, reading fluently
German : speaking fairly, writing basic, reading fluently
Kiswahili : speaking fairly
Russian : basic notions

3. PROFESSIONAL CAREER

3.1. Occupational positions

- 1 October 1985 - 31 December 1986: specialisation grant from the IWONL (the Belgian Institute for encouragement of Scientific Research in Industry and Agriculture).
- 1 January 1987 - 30 September 1989: research collaborator at the Laboratory of General Zoology, University of Antwerp (RUCA), Belgium.
- 1 October 1989 - 30 September 1992: Research Assistant of the National Fund for Scientific Research (Belgium).
- 1 July 1991 - 30 June 1992: Military Service at the Belgian Zoonosis Workgroup, Department of Epidemiology, Military Hospital, Brussels, Belgium.
- 1 October 1992 - 30 September 1994: Research Assistant (GOA) at the Department of Biology, University of Antwerp (UIA), Belgium.
- 1 October 1994 - 30 November 1996: Postdoctoral Researcher of the National Fund for Scientific Research (Belgium), attached to the Department of Biology, University of Antwerp (RUCA), Belgium.
- 1 December 1996 - 30 November 2001: Head of Mammal Department, Danish Pest Infestation Laboratory, Kgs. Lyngby, Denmark
- 1 October 1999 - 30 September 2001: part-time (50%) associate professor ("docent") at the Department of Biology, University of Antwerp (RUCA), Belgium
- 1 October 2001 - 31 December 2007: professor ("hoogleraar") at the Department of Biology, University of Antwerp, Belgium
- 2002-2007: honorary title as "Adjungeret Professor" at the Institute of Ecology, Royal Veterinary and Agricultural University, Frederiksberg, Denmark (currently, University of Copenhagen)
- 1 April 2002-30 March 2012: Visiting Professor and Senior Researcher, Danish Pest Infestation Laboratory, Kgs. Lyngby, Denmark (currently University of Aarhus)
- Since 1 January 2008: full professor ("gewoon hoogleraar") at the Department of Biology, University of Antwerp, Belgium
- 1 October 2009 - 30 September 2015: Dean of the Faculty of Sciences, University of Antwerp, Belgium
- since 15 November 2016: Chairman of the University of Antwerp Board of Governors

3.2. Short-term assignments

- January - May 1987: trainee at the Dept. of Virology, Institute of Tropical Medicine Leopold II, Antwerp, Belgium.
- 26 May 1987 - 26 August 1987: visiting co-operant for the Belgian Administration of Development Cooperation at the Tanzania-Belgium Joint Rodent Research Project, Sokoine University of Agriculture, Morogoro, Tanzania.
- 4 October 1987 - 6 December 1987: visiting co-operant for the Belgian Administration of Development Cooperation at the Tanzania-Belgium Joint Rodent Research Project, Sokoine University of Agriculture, Morogoro, Tanzania.
- 12 May 1988 - 7 August 1988: visiting co-operant for the Belgian Administration of Development Cooperation at the Tanzania-Belgium Joint Rodent Research Project, Sokoine University of Agriculture, Morogoro, Tanzania.
- 13 October 1988 - 13 January 1989: visiting co-operant for the Belgian Administration of Development Cooperation at the Tanzania-Belgium Joint Rodent Research Project, Sokoine University of Agriculture, Morogoro, Tanzania.

4. SCIENTIFIC RESEARCH

4.1. Books, theses and other special volumes

-licentiate thesis

LEIRS H. 1985. Epidemiological study of Hemorrhagic Fever with Renal Syndrome in *Clethrionomys glareolus* (Schreber, 1780). (in dutch). 91 pp. UIA, Departement Biology, Antwerp.
promotor: Prof. Dr. Walter N. VERHEYEN

-doctoral thesis

LEIRS, H. 1992. Population ecology of *Mastomys natalensis* (SMITH, 1834) multimammate rats: possible implications for rodent control in Africa. 273 pp. UIA, Departement Biology, Antwerp.

promotor: Prof. Dr. Walter N. VERHEYEN

(published in 1995 as volume 35 in *Agricultural Editions*, scientific publications of the Belgian Administration for Development Cooperation, Brussels.)

-congress proceedings

- LEIRS, H. & E.SCHOCKAERT (Eds.). 1997. Rodent Biology and Integrated Pest Management in Africa. Proceedings of the International Workshop held in Morogoro (Tanzania, 21-25 October 1996). *Belgian Journal of Zoology*, **127 (suppl.)**:180 pp.
- LEIRS, H., R.H.MAKUNDI & S.DAVIS (Eds). 2005. Proceedings of the 9th International African Small Mammal Symposium, Morogoro, Tanzania, 14-18 July 2003. *Belgian Journal of Zoology*, **135 (suppl.)**:216 pp.

-book

SINGLETON, G., L.HINDS, H.LEIRS & ZHANG ZHIBIN (Eds.). 1999. Ecologically-based management of rodent pests. ACIAR Monograph 49, Canberra, 494 pp. [ISBN 1 86320 262 5 0].

4.2. Publications in refereed journals

(SCI journal impact factors are given as listed in the year of publication, or for 2004 for earlier papers)

4.2.1. published in journals in ISI Web of Science

1. VERHAGEN R., H.LEIRS, E.TKACHENKO & G.VAN DER GROEN. 1986. Ecological and epidemiological notes on Hanta-virus in a bank vole population in Belgium. *Archives of Virology*, **91**:193-205. [IF 1.967]
2. VERHAGEN R., G.VAN DER GROEN, A.IVANOV, J.VAN ROMPAY, H.LEIRS & W.VERHEYEN. 1987. Occurrence and distribution of HFRS-virus in wild living mammals in Belgium. *Acta Virologica*, **31**:43-52. [IF 0.660]
3. VAN DER GROEN G., G.BEELAERT, G.HOOFD, H.LEIRS, R.VERHAGEN, K.YAMANISHI, E.TKACHENKO & A.IVANOV. 1987. Partial characterization of a Hantavirus isolated from a *Clethrionomys glareolus* captured in Belgium. *Acta Virologica*, **31**:180-184. [IF 0.660]
4. LEIRS H., W.VERHEYEN, M.MICHIELS, R.VERHAGEN & J.STUYCK. 1989. The relation between rainfall and the breeding season of *Mastomys natalensis* (Smith, 1834) in Morogoro, Tanzania. *Annales de la Société royale Zoologique de Belgique*, **119 (1)**:59-64. [IF 0.394]
5. LEIRS H., R.VERHAGEN & A.LEFEVRE. 1989. L'Hantavirose, une anthrozoonose mal connue. *Annales de Médecine Vétérinaire*, **133**:653-662. [IF 0.156]
6. LEIRS H., J.STUYCK, R.VERHAGEN & W.VERHEYEN. 1990. Seasonal variation in growth of *Mastomys natalensis* (Rodentia: Muridae) in Morogoro, Tanzania. *African Journal of Ecology*, **28**:298-306. [IF 0.366]
7. MCKENNA,P., G.VAN DER GROEN, G.HOOFD, G.BEELAERT, H.LEIRS, R.VERHAGEN, J.P.KINTS, F.CORMONT, F.NISOL & H.BAZIN. 1992. Eradication of hantavirus infection among laboratory rats by application of caesarian section and a foster mother technique. *Journal of Infection*, **25**:181-190. [IF 1.493]
8. HINDRICHSEN,S., A.MEDEIROS DE ANDRADE, J.CLEMENT, H.LEIRS, P.MCKENNA, P.MATTHIJS, G.NEILD. 1993. Evidence of Hantavirus infection in Brazilian patients from Recife with suspected Leptospirosis. *Lancet*, **341**:50. [IF 15.397]
9. LEIRS H., R.VERHAGEN & W.VERHEYEN. 1993. Productivity of different generations in a population of *Mastomys natalensis* rats in Tanzania. *Oikos*, **68(1)**:53-60. [IF 2.387]
10. LEIRS,H. & L.DE BRUYN. 1993. New ideas for personal library maintenance software. *Nature*, **366 (11 November)**:183-184.[product review] [IF 30.432]
11. LEIRS H., R.VERHAGEN & W.VERHEYEN. 1994. The basis of reproductive seasonality in *Mastomys* rats (Rodentia: Muridae). *Journal of Tropical Ecology*, **10(1)**:55-66. [IF 1.130]
12. BACKELJAU,T., K.BREUGELMANS, H.LEIRS, T.RODRIGUEZ, D.SHERBAKOV, T.SITNIKOVA, J.M.TIMMERMANS, J.L.VAN GOETHEM & E.VERHEYEN. 1994. Application of isoelectric focusing in molluscan studies. *The Nautilus, Suppl.2*:156-167. [IF 0.286]
13. CLEMENT,J., P.COLSON, I.THOMAS, P.MCKENNA, J.NEYTS, J.COECK, G.VAN DER GROEN, H.LEIRS & R.VERHAGEN. 1994. Hantavirose en Belgique. *Annales de Médecine Vétérinaire*, **138**:257-262. [IF 0.156]
14. LEIRS,H., R.VERHAGEN, W.VERHEYEN & M.R.PERRIN. 1995. The biology of *Elephantulus brachyrhynchus* in natural miombo woodland in Tanzania. *Mammal Review*, **25(1)**:43-47. [IF 0.810]
15. FITZGIBBON,C.D., H.LEIRS & W.VERHEYEN. 1995. Distribution, population dynamics and habitat choice of the lesser pouched rat, *Beamys hindei* (Rodentia: Cricetomyinae). *Journal of Zoology*, **236**:499-512. [IF 1.057]
16. LEIRS,H., VERHAGEN,R., VERHEYEN,W., MWANJABE,P. & MBISE,T. 1996. Forecasting rodent outbreaks in Africa: an ecological basis for *Mastomys* control in Tanzania. *Journal of Applied Ecology*, **33**:937-943. [IF 2.092]
17. LEIRS,H., W.VERHEYEN & R.VERHAGEN. 1996. Spatial patterns in *Mastomys natalensis* rats in Tanzania. *Mammalia*, **60(4)**:545-555. [IF 0.356]

18. FIRQUET, E., H. LEIRS & G. BRONNER. 1996. Germinating grasses and reproductive seasonality in *Mastomys* rats. *Mammalia*, **60(4)**:775-779. [IF 0.356]
19. LEIRS, H., N.C. STENSETH, J.D. NICHOLS, J.E. HINES, R. VERHAGEN & W.N. VERHEYEN. 1997. Seasonality and non-linear density-dependence in the dynamics of african *Mastomys* rats. *Nature*, **389**:176-180. [IF 30.432]
20. LEIRS, H., R. VERHAGEN, C.A. SABUNI, P. MWANJABE & W.N. VERHEYEN. 1997. Spatial dynamics of *Mastomys natalensis* in a field-fallow mosaic in Tanzania. *Belgian Journal of Zoology*, **127(sup.1)**:29-38. [IF 0.394]
21. BEKELE, A. & H. LEIRS. 1997. Population ecology of rodents of maize fields in central Ethiopia. *Belgian Journal of Zoology*, **127(sup.1)**:39-48. [IF 0.394]
22. MWANJABE, P. & H. LEIRS. 1997. An early warning system for IPM-based rodent control in smallholder farming systems in Tanzania. *Belgian Journal of Zoology*, **127(sup.1)**:49-58. [IF 0.394]
23. VAN GULCK, T., R. STOKS, R. VERHAGEN, C.A. SABUNI & H. LEIRS. 1998. Short-term effects of avian predation variation on population size and local survival of the multimammate rat, *Mastomys natalensis*, (Rodentia, Muridae). *Mammalia*, **62(3)**:329-339. [IF 0.356]
24. LEIRS, H., J. MILLS, J.W. KREBS, J.E. CHILDS, DUDU AKAIBE, N. WOOLLEN, G.E. LUDWIG, C.J. PETERS, T.G. KSIAZEK. 1999. Search for the Ebola-reservoir in Kikwit: reflections on the vertebrate collection. *Journal of Infectious Diseases*, **179 (Suppl 1)**:S155-63. [IF 4.857]
25. JULLIARD, R., H. LEIRS, N.C. STENSETH, N.G. YOCCOZ, A.-C. PRÉVOT-JULLIARD, R. VERHAGEN & W. VERHEYEN. 1999. Survival variation within and between functional categories of the African multimammate rat. *Journal of Animal Ecology*, **68**:550-561. [IF 2.905]
26. CARLSEN, M., J. LODAL, H. LEIRS & T.S. JENSEN. 1999. The effect of predation risk on body weight in the field vole *Microtus agrestis*. *Oikos*, **87(2)**:277-285. [IF 2.387]
27. VAN CAKENBERGHE, V., F. DE VREE & H. LEIRS. 1999 (published in 2000). A collection of bats (Chiroptera) from Kikwit, Democratic Republic of Congo. *Mammalia*, **63(3)**:291-322. [IF 0.356]
28. CARLSEN, M., J. LODAL, H. LEIRS, T.S. JENSEN. 2000. Effects of predation on temporary autumn populations of subadult *Clethrionomys glareolus* in forest clearings. *Zeitschrift für Säugetierkunde*, **65(2)**:100-109. [IF 0.370]
29. CLEMENT, J., M. VAN RANST & H. LEIRS. 2000. False positive results for tick-borne encephalitis (TBE) in ELISA and HI testing. *American Journal of Tropical Medicine & Hygiene*, **62(3)**:325-326. [letter] [IF 2.063]
30. BOLBROE, T., L.L. JEPPESEN & H. LEIRS. 2000. Behavioural response of field voles under mustelid predation risk in the laboratory: more than neophobia. *Annales zoologici Fennici*, **37(3)**: 169-178. [IF 1.544]
31. ASIKAINEN, K., T. HÄNNINEN, H. HENTTONEN, J. NIEMIMAA, J. LAAKKONEN, H.K. ANDERSEN, N. BILLE, H. LEIRS, A. VAHERI & A. PLYUSNIN. 2000. Molecular evolution of Puumala Hantavirus in Fennoscandia: phylogenetic analysis of strains from two recolonization routes, Karelia and Denmark. *Journal of General Virology*, **81(12)**: 2833-2841. [IF 3.061]
32. LEIRS, H., K.S. LARSEN & J. LODAL. 2001. Palatability and toxicity of fipronil as a systemic insecticide in a rodenticide bait for rat and flea control. *Medical and Veterinary Entomology*, **15(3)**:299-303. [IF 1.148]
33. STENSETH, N.C., H. LEIRS, S. MERCELIS & P. MWANJABE. 2001. Comparing strategies of controlling African pest rodents: an empirically based theoretical study. *Journal of Applied Ecology*, **38(5)**:1020-1031. [IF 2.902]
34. SIRONEN, T., A. PLYUSNINA, H.K. ANDERSEN, J. LODAL, H. LEIRS, J. NIEMIMAA, H. HENTTONEN, A. VAHERI, Å. LUNDKVIST & A. PLYUSNIN. 2002. Distribution of Puumala Hantavirus in Denmark: analysis of Bank voles (*Clethrionomys glareolus*) from Fyn and Jutland. *Vector-Borne and Zoonotic Diseases* **2**:37-47. [IF 2.373]
35. MOHR, K., S. VIBE-PETERSEN, L.L. JEPPESEN, M. BILDØE & H. LEIRS. 2003. Foraging of multimammate rats (*Mastomys natalensis*) under different predation pressure: cover, patch-dependent decisions and density-dependent GUDs. *Oikos*, **100**:459-468. [IF 2.387]
36. MARKUSSEN, M.D., A.C. HEIBERG, R. NIELSEN & H. LEIRS. 2003. Vitamin K requirement in Danish anticoagulant-resistant Norway rats (*Rattus norvegicus*). *Pest Management Science*, **59**:913-920. [IF 1.178]
37. STENSETH, N.C., H. LEIRS, A. SKONHOFT, S.A. DAVIS, R.P. PECH, H.P. ANDREASSEN, G.R. SINGLETON, M. LIMA, R.M. MACHANG'U, R.H. MAKUNDI, ZHIBIN ZHANGH, P.B. BROWN, DAZHAO SHII & XINRONG WAN. 2003. Mice, Rats and People: population dynamics and bio-economics of agricultural rodent pests. *Frontiers in Ecology and the Environment*, **1(7)**:367-375. [IF 4.745]
38. LIMA, M., N.C. STENSETH, H. LEIRS & F.M. JAKSIC. 2003. Population dynamics of small mammals in semiarid regions: a comparative study of within-year demographic variability in two rodent species. *Proceedings of the Royal Society B*, **270 (1528)**:1997-2007. [IF 3.396]

39. DAVIS, S.A., H. LEIRS, R. PECH, ZHIBIN ZHANG & N.CHR. STENSETH. 2004. On the economic benefit of predicting rodent outbreaks in agricultural systems. *Crop Protection*, **23**:305-314. [IF 0.966]
40. DAVIS, S.A., M.BEGON, L.DE BRUYN, V.S.AGEYEV, N.KLASSOVSKIY, S.B.POLE, H.VILJUGREIN, N.C.STENSETH & H.LEIRS. 2004. Predictive thresholds for plague in Kazakhstan. *Science* **304**:736-738. [IF 28.956]
41. NEMIROV, K., H.ANDERSEN, H.LEIRS, H.HENTTONEN, A.VAHERI, Å.LUNDKVIST & A.PLYUSNIN. 2004. Saaremaa Hantavirus in Denmark. *Journal of Clinical Virology*, **30**:254-257. [IF 2.568]
42. LEIRS, H., J. LODAL, M. KNORR. 2004. Factors correlated with the presence of rodents in outdoor pig farms in Denmark and suggestions for management strategies. *Netherlands Journal of Agricultural Sciences*, **52(2)**:145-161. [IF 0.732]
43. MEERBURG, B.G., M.K. BONDE, F.W.A. BROM, S. ENDEPOLS, A.N. JENSEN, H. LEIRS, J. LODAL, G.R. SINGLETON, H.J. PELZ, T.B. RODENBURG, A. KIJLSTRA. 2004. Towards sustainable management of rodents in organic animal husbandry. *Netherlands Journal of Agricultural Sciences*, **52(2)**:195-205. [IF 0.732]
44. SCHMIDT, N.M., H.OLSEN, M.BILDSØE, V.SLUYDTS & H.LEIRS. 2005. Effects of grazing intensity on small mammal population ecology in wet meadows. *Basic & Applied Ecology*, **6**:57-66. [IF 1.577]
45. DAVIS,S., E.CALVET & H.LEIRS. 2005. Fluctuating rodent populations and risk to humans from rodent-borne zoonoses. *Vector-Borne and Zoonotic Diseases*, **5(4)**:305-314. [IF 2.373]
46. MGODE, G.F,MHAMPFI, G. ,KATAKWEBA, A., PAEMELAERE, E., WILLEKENS, N., LEIRS, H, MACHANG'U, R.S., HARTSKEERL, R.A. 2005. Pcr detection of *Leptospira* DNA in rodents and insectivores in Morogoro Tanzania. *Belgian Journal of Zoology*, **135 (suppl.)**:17-19. [IF 0.537]
47. ODHIAMBO, C., N.O. OGUGE & H. LEIRS. 2005. Movements and spatial patterns of *Mastomys erythroleucus* in maize cropping systems in the Kenyan Rift Valley. *Belgian Journal of Zoology*, **135 (suppl.)**:83-89. [IF 0.537]
48. ODHIAMBO, R., R. MAKUNDI, H.LEIRS & R.VERHAGEN. 2005. Community structure and seasonal abundance of rodents of maize farms in southwestern Tanzania. *Belgian Journal of Zoology*, **135 (suppl.)**:113-118. [IF 0.537]
49. MAKUNDI, R.H., AFEWORK BEKELE, H.LEIRS, A.W. MASSAWE, W.RWAMUGIRA & L.S.MULUNGU. 2005. Farmers' perceptions of rodents as crop pests: Knowledge, attitudes and practices in rodent pest management in Tanzania and Ethiopia. *Belgian Journal of Zoology*, **135 (suppl.)**:153-157. [IF 0.537]
50. NGOWO, V., MULUNGU, L.S., LODAL, J., MAKUNDI, R.H., LEIRS, H., MASSAWE, A.W. 2005. Evaluation of thiram and cinnamamide for protection of maize seeds against multimammate mice, *Mastomys natalensis*, in Tanzania. *Belgian Journal of Zoology*, **135 (suppl.)**:179-181. [IF 0.537]
51. MULUNGU, L., R.H.MAKUNDI, A.W.MASSAWE, R.S.MACHANG'U, V.NGOWO & H.LEIRS. Spatial patterns and distribution of damage in maize fields due to *Mastomys natalensis* in Tanzania. *Belgian Journal of Zoology*, **135 (suppl.)**:183-185. [IF 0.537]
52. MASSAWE, A.W., W. RWAMUGIRA, H. LEIRS, R.H. MAKUNDI & L.MULUNGU. 2005. Influence of land preparation methods and vegetation cover on population abundance of *Mastomys natalensis* in Morogoro, Tanzania. *Belgian Journal of Zoology*, **135 (suppl.)**: 187-190. [IF 0.537]
53. KATUALA, P.G.B., J.A.HART, R.HUTTERER, H.LEIRS & A.DUDU. 2005. Biodiversity and ecology of small mammals (rodents and shrews) of the "Réserve de Faune à Okapis", Democratic Republic of the Congo. *Belgian Journal of Zoology*, **135 (suppl.)**: 191-196. [IF 0.537]
54. CORTI, M., R.CASTIGLIA, P.COLANGELO, E.CAPANNA, F.BEOLCHINI, A.BEKELE, N.OGUGE, R.MAKUNDI, A.SICHILIMA, H.LEIRS, W.VERHEYEN, R.VERHAGEN. 2005. Cytotaxonomy of rodent species from Ethiopia, Kenya, Tanzania and Zambia. *Belgian Journal of Zoology*, **135 (suppl.)**: 197-216. [IF 0.537]
55. VIBE-PETERSEN, S., H.LEIRS & L.DE BRUYN. 2006. Effects of predation and dispersal on *Mastomys natalensis* populations in Tanzanian maize fields. *Journal of Animal Ecology*, **75(1)**:213-220. [IF 3.399]
56. VERVAEKE, M., S.DAVIS, H.LEIRS, R.VERHAGEN. 2006. Implications of increased susceptibility to predation for management of the sylvatic cycle of *Echinococcus multilocularis*. *Parasitology*, **132**:893-901. [IF 1.354]
57. STENSETH, N.C., N. I. SAMIA, H.VILJUGREIN, K. KAUSRUD, M. BEGON, S. DAVIS, H. LEIRS, V.M. DUBYANSKIY, J. ESPER, V. S. AGEYEV, N. L. KLASSOVSKIY, S. B. POLE & K. S. CHAN. 2006. Plague Dynamics are driven by Climate Variation. *Proceedings of the National Academy of Sciences of the USA*, **103 (35)**: 13110-13115. [IF 10.231]
58. BAUSCH, D.G., S.T.NICHOL, J.J.MUYEMBE-TAMFUM, M.BORCHERT, P.E.ROLLIN, H.SLEURS, P.CAMPBELL, F.K. TSHIOKO, C.ROTH, R.COLEBUNDERS, P.PIRARD, S.MARDEL, L.A.OLINDA, H.ZELLER, A.TSHOMBA, A.KULIDRI, M.L.LIBANDE, S.MULANGU, P.FORMENTY, T.GREIN, H.LEIRS, L.BRAACK, T.KSIAZEK, S.ZAKI, M.D.BOWEN, S.B. SMIT, P.A. LEMAN, F.J. BURT, A.KEMP & R. SWANEPOEL. 2006. Marburg hemorrhagic fever associated with multiple genetic lineages of virus. *New England Journal of Medicine*, **355(9)**: 909-919. [IF 44.016]
59. SKONHOFT, A., L.S.MULUNGU, H.LEIRS, H.P.ANDREASSEN & N.C.STENSETH. 2006. The bioeconomics of controlling an African rodent pest species. *Environment and Development Economics*, **11**:453-475. [IF 0.323]

60. HEIBERG, A.C., H.LEIRS & H.SIEGISMUND. 2006. Reproductive success of bromadiolone resistant rats in absence of anticoagulant pressure. *Pest Management Science*, 62 (9): 862-871. [IF 1.175]
61. HOLT, J., S. DAVIS & H. LEIRS. 2006. A model of Leptospirosis infection in an African rodent to determine risk to humans: Seasonal fluctuations and the impact of rodent control. *Acta Tropica*, 99:218-225. [IF 1.800]
62. DAVIS, S., R.MAKUNDI, R.MACHANG'U & H.LEIRS. 2006. Demographic and spatio-temporal variation in human plague at a persistent focus in Tanzania. *Acta Tropica*, 100:133-141. [IF 1.800]
63. BEERNAERT, J., J.SCHEIRS, H.LEIRS, R.BLUST, R.VERHAGEN. 2007. Non-destructive pollution exposure assessment by means of wood mice hair. *Environmental Pollution*, 145:443-451. [IF 2.769]
64. NYSSSEN, J., J.POESSEN, D.GEBREMICHAEL, K.VANCAMPENHOUT, M.DAES, G.YIHDEGO, G.GOVERS, H.LEIRS, J.MOEYERSONS, J.NAUDTS, N.HAREGEWEYN, M.HAILE, J.DECKERS. 2007. Interdisciplinary on-site evaluation of stone bunds to control soil erosion on cropland in Northern Ethiopia. *Soil & Tillage Research*, 94:153-161. [IF 1.619]
65. CLEMENT, J., G.NEILD, P.MAES, H.LEIRS, P.MATTHYS & M.VAN RANST. 2007. Symptomatic human hantavirus in the Americas. *Emerging Infectious Diseases*, 13(2): 345-346 [IF 5.094]
66. LAUDISOIT, A., H.LEIRS, R.MAKUNDI, S.VAN DONGEN, S.DAVIS, S.NEERINCKX, J.DECKERS & R.LIBOIS. 2007. Plague and the Human Flea, Tanzania. *Emerging Infectious Diseases*, 13(5):687-693. [IF 5.094]
67. DAVIS, S., H. LEIRS, H. VILJUGREIN, N.C. STENSETH, L. DE BRUYN, N. KLASSOVSKIY, V. AGEYEV, & M. BEGON. 2007. Empirical assessment of a threshold model for plague in Kazakhstan. *Journal of the Royal Society Interface*, 4:649-657. [IF 0.930]
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19. LEIRS, H., C.VAN SOOM, P.LIEVENS & H.DEJONGHE. 2013. De interuniversitaire ijkingstoets wetenschappen: eerste ervaringen. *Tijdschrift voor Onderwijsrecht en Onderwijsbeleid*, vol. 2012:81-85.
20. THOMAES, A., H.LEIRS & L.DE BRUYN. 2017. *Morimus funereus* Mulsant, 1862, a longhorn beetles from the Habitats directive observed in Belgium due to transport for the first time (Coleoptera: Cerambycidae). *Bulletin de la Société royale belge d'Entomologie/Bulletin van de Koninklijke Belgische Vereniging voor Entomologie*, **153**:203-205
21. LAUDISOIT A, COLLET M, MUYAYA B, MAUWA C, NTADI S, WENDELEN W, GUIET A, HELSEN P, BAUDOIN M, LEIRS H, VANHOUTTE N, MICHA JC & VERHEYEN E. 2017 West African Manatee *Trichechus senegalensis* (LINK, 1795) in the Estuary of the Congo River (Democratic Republic of the Congo): Review and Update. *Journal of Biodiversity and Endangered Species* 5:1. DOI: 10.4172/2332-2543.1000181

4.2.3. accepted, in press

- IACUCCI A., P. COLANGELO, V.GAMBERI, E.MORI, D.CAPIZZI, K.BAERT, A.ESTHER, H.LEIRS, T.PETIT, A.RIBAS SALVADOR, G.ALOISE, F.ANNESE & R.CASTIGLIA. VKORC1 mutation in European populations of *Rattus norvegicus* with first data for Italy and the report of a new amino acid substitution. *Hystrix*.
- RUTTEN, A., J.CASAER, M.VOGELS, E. ADDINK, J.VANDEN BORRE & H.LEIRS. Assessing Agricultural Damage by Wild Boar Using Drones. *Wildlife Society Bulletin*.
- VANMECHELEN, B., M.BLETS, L.LAENEN, A.R.LOPES, V.VERGOTE, L.BELLER, W.DEBOUTTE, M.KORVA, T.AVŠIČ ŽUPANC, J.GOÛY DE BELLOCQ, S.GRYSEELS, H.LEIRS, PH.LEMEY, B.VRANCKEN & PIET MAES. Discovery and genome characterization of three new Jeilongviruses, a lineage of paramyxoviruses characterized by their unique membrane proteins. *BMC Genomics*.

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- SWINNEN, K.R.R., A.RUTTEN, J.NYSSEN & H.LEIRS. Environmental factors explain the distribution of beaver dams in alluvial plains in Middle Belgium. *European Journal of Wildlife Research*. [IF 1.208]
- REIJNIERS, J. et al. Why hantavirus prevalence does not always increase with host density: modeling the role of host spatial behavior and maternal antibodies. *Epidemics*.
- RUTTEN, A., J.CASAER, T.ONKELINX, L.DE SMET, F.HUYSENTRUYT, N.WITTERS & H.LEIRS. Using an online survey to assess the spatial distribution of wild boar (*Sus scrofa* L.) crop damage and factors influencing this distribution. *Wildlife Research*.
- MARIÉN, J., F.KOUROUMA, N.MAGASSOUBA, H.LEIRS, E.FICHET-CALVET. Movement patterns of small rodents in Lassa fever-endemic villages in Guinea. *Population Ecology*.
- LAENEN, L., V.VERGOTE, B.VANMECHELEN, K.TERSAGO, G.BAELE, PH.LEMEY, H.LEIRS, S.DELLICOUR, B.VRANCKEN & P.MAES. Geographic spread of Puumala virus over time: opening new avenues for identifying correlates of hantavirus migration dynamics. *Molecular Ecology*.
- VANDELANNOTE, K., D.PHANZU, K.KIBADI, M.EDDYANI, C.MEEHAN, K.JORDAENS, H.LEIRS, F.PORTAELS, T.STINEAR, S.HARRIS & B.C.DE JONG. Genomic population modeling informs control of *Mycobacterium ulcerans* disease. *mBio*.

4.3. Contributions to books or refereed congress proceedings

1. VAN DER GROEN G., H.LEIRS & R.VERHAGEN. 1986. Polyhostal nature of Hantaviruses. *Proceedings of the Second Symposium on Recent Advances in Rodent Control*, Kuwait, February 2-6, 1985. pp. 197-207.
2. LEIRS H., R.VERHAGEN & W.VERHEYEN. 1990. The use of rainfall patterns in predicting population densities of multimammate rats *Mastomys natalensis*. *Proceedings of the 14th Vertebrate Pest Conference (L.R.Davis & R.E.Marsh, Eds.)*, University of California, Davis.

3. CLEMENT, J., H. LEIRS, P. MCKENNA, V. ARMOUR, D. WARD, J. GROEN, A. OSTERHAUS & C. KUNZ. Parallelism between Lyme and Tick-borne encephalitis (TBE) sero-epidemiology following occupational exposure in S. Germany. *in* J.S. AXFORD & D.H.E. REES (Eds.). *Lyme borreliosis*. Plenum Press, New York, pp.89-93.
4. CLEMENT, J., P. MCKENNA, H. LEIRS, R. VERHAGEN, A. LEFÈVRE, G. SONG, E. TKACHENKO & G. VAN DER GROEN. 1994. Hantavirus infections in rodents. *in* A.D.M.E. OSTERHAUS (Ed.). *Virus infections of rodents and lagomorphs*. Elsevier Science, Amsterdam, pp.295-316.
5. SINGLETON, G., H. LEIRS, L. HINDS & ZHANG ZHIBIN. 1999. Ecologically-based management of rodent pests: re-evaluating our approach to an old problem. *in*: SINGLETON, G., L. HINDS, H. LEIRS & ZHANG ZHIBIN (Eds.) *Ecologically-based management of rodent pests*. ACIAR, Canberra, pp. 17-29.
6. LEIRS, H. 1999. Populations of African rodents: models and the real world. *in*: SINGLETON, G., L. HINDS, H. LEIRS & ZHANG ZHIBIN (Eds.) *Ecologically-based management of rodent pests*. ACIAR, Canberra, pp.388-408.
7. LEIRS, H., G. SINGLETON & L. HINDS. 1999. Ecologically-based rodent management in developing countries: where to now? *in*: SINGLETON, G., L. HINDS, H. LEIRS & ZHANG ZHIBIN (Eds.). *Ecologically-based management of rodent pests*. ACIAR, Canberra, 477-484.
8. FEENSTRA, A., A. ROEPSTORFF, J.T. SØRENSEN, H. LEIRS & J. LODAL. 2000. Sygdoms- og zoonoserisiko ved frilandsproduktion/adgang til udeareal. In: J.E. HERMANSEN (Ed). *Økologisk svineproduktion – udfordringer, muligheder og begrænsninger*, FØJO-rapport nr.8/2000, Forskningscenter for Økologisk Jordbrug, Foulum, pp. 47-75.
9. BEKELE, A., LEIRS, H. & VERHAGEN, R. 2002. Composition of rodents and damage estimates on maize farms at Ziway, Ethiopia. In: G. R. Singleton, L. A. Hinds, C. J. Krebs, and D. M. Spratt, eds., *Rats, Mice and People: Rodent Biology and Management*. Canberra, Australian Center for International Agricultural Research, 262-263.
10. HEIBERG, A. C., LEIRS, H. & SIEGISMUND, H. R. 2002. Bromadiolone resistance does not respond to absence of anticoagulants in experimental populations. In: G. R. SINGLETON, L. A. HINDS, C. J. KREBS & D. M. SPRATT, eds., *Rats, Mice and People: Rodent Biology and Management*. Canberra, Australian Center for International Agricultural Research, 461-464.
11. LEIRS, H. 2002. Management of rodents in crops: the Pied Piper and his orchestra. In: G. R. SINGLETON, L. A. HINDS, C. J. KREBS, & D. M. SPRATT, eds., *Rats, Mice and People: Rodent Biology and Management*. Canberra, Australian Center for International Agricultural Research, 183-190.
12. LEIRS, H., SKONHOFT, A., STENSETH, N. C., & ANDREASSEN, H. P. 2002. A bioeconomic model for the management of *Mastomys natalensis* mice in maize fields. In: G. R. SINGLETON, L. A. HINDS, C. J. KREBS & D. M. SPRATT, eds., *Rats, Mice and People: Rodent Biology and Management*. Canberra, Australian Center for International Agricultural Research, 358-361.
13. MASSAWE, A. W., LEIRS, H., RWAMUGIRA, W. P. & MAKUNDI, R. H. 2002. Effect of land preparation methods on spatial distribution of rodents in crop fields. In: G. R. SINGLETON, L. A. HINDS, C. J. KREBS & D. M. SPRATT, eds., *Rats, Mice and People: Rodent Biology and Management*. Canberra, Australian Center for International Agricultural Research, 229-232.
14. MULUNGU, L. S., MAKUNDI, R. H. & LEIRS, H. 2002. Robustness of techniques for estimating rat damage and yield loss in maize fields. In: G. R. SINGLETON, L. A. HINDS, C. J. KREBS & D. M. SPRATT, eds., *Rats, Mice and People: Rodent Biology and Management*. Canberra, Australian Center for International Agricultural Research, 224-228.
15. MULUNGU, L. S., MAKUNDI, R. H., LEIRS, H., MASSAWE, A. W., VIBE-PETERSEN, S. & STENSETH, N. C. 2002. The rodent density-damage function in maize fields at an early growth stage. In: G. R. SINGLETON, L. A. HINDS, C. J. KREBS & D. M. SPRATT, eds., *Rats, Mice and People: Rodent Biology and Management*. Canberra, Australian Center for International Agricultural Research, 301-303.
16. NGOWO, V., LODAL, J., MULUNGU, L. S., MAKUNDI, R. H., MASSAWE, A. W. & LEIRS, H. 2002. Evaluation of thiram and cinnamamide as potential repellents against maize-seed depredation by the multimammate rat, *Mastomys natalensis*, in Tanzania. In: G. R. SINGLETON, L. A. HINDS, C. J. KREBS & D. M. SPRATT, eds., *Rats, Mice and People: Rodent Biology and Management*. Canberra, Australian Center for International Agricultural Research, 260-261.
17. SICHILIMA, A. M., ZULU, M. S. & LEIRS, H. 2002. The effects of *Tephrosia vogelii* and land preparation methods on mole rat activity in cassava fields. In: G. R. SINGLETON, L. A. HINDS, C. J. KREBS & D. M. SPRATT, eds., *Rats, Mice and People: Rodent Biology and Management*. Canberra, Australian Center for International Agricultural Research, 254-255.
18. LEIRS, H. & G. SINGLETON. 2006. Parasites and pest population management. In: S. MORAND, B. KRASNOV, R. POULIN (Eds). *Micromammals and macroparasites: from evolutionary ecology to management*. Springer-Verlag Tokyo. pp. 565-591.
19. LEIRS, H., V. SLUYDTS & R.H. MAKUNDI. 2010. Rodent outbreaks in sub-saharan Africa. In: G. R. SINGLETON, S. BELMAIN, P. BROWN & B. HARDY, eds., *Rodent outbreaks: Ecology and impacts*. International Rice Research Institute, Los Baños, Philippines (ISBN 978-971-22-0257-5). pp. 269-280.

4.4. Contributions at scientific meetings

4.4.1. Lectures

(presenting author is the first author, unless an other author name is underlined)

1. lecture at the seminar 'Anatomy - systematics - ecology and ethology of (small) rodents' of the Vereniging voor Zoogdierkunde en Zoogdierbescherming, 19 April 1986 in Louvain-la-Neuve (Belgium): LEIRS H., R.VERHAGEN & G.VAN DER GROEN. Epidemiological aspects of a Hantavirus-infection in a free-living population of bank voles (*Clethrionomys glareolus*) in Belgium. (abstract: *Lutra*, **29(2)**:347-349)
2. lecture and poster at the Meeting of the Koninklijke Belgische Vereniging voor Dierkunde, 29 November 1986 in Brussels (Belgium): LEIRS H. Strong relation between human clinical cases of Hantavirus disease and infected rodent populations in Belgium. (abstract: *Annales de la Société royale Zoologique de Belgique*, **117(1)**:120)
3. abstract of lecture at the 29th International Colloquium on Hantaviruses, Antwerpen, Belgium, 10-11 December 1987: VERHAGEN R., H.LEIRS & G.VAN DER GROEN. Hantaviruses in wild living rodents: geographical and seasonal differences.
4. lecture at the XIIth International Congress for Tropical Medicine and Malaria, Amsterdam, The Netherlands, 18-23 September 1988: VERHAGEN R., C.VAN YPERSELE DE STRIHOU, H.LEIRS, J.CLEMENT, G.HOOFD & G.VAN DER GROEN. Relation between the geographical and seasonal variation of Hantavirus infection in rodents and humans in Belgium.
5. lecture at the 5th International Theriological Congress, Roma, Italy, 22-29 September 1989: LEIRS H., R.VERHAGEN & W.VERHEYEN. The relation between rainfall and reproduction in *Mastomys natalensis*: a useful tool in planning control actions ?
6. lecture at the 14th Vertebrate Pest Conference, Sacramento, California, USA, 5-9 March 1990: LEIRS H., R.VERHAGEN & W.VERHEYEN. The use of rainfall patterns in predicting population densities of multimammate rats *Mastomys natalensis*.
7. lecture at the 1st Belgian Congress of Zoology, Antwerp, Belgium, 16-17 November 1990: LEIRS H. An ecological basis for rodent control: optimism and reality. (abstract: *Belgian Journal of Zoology*, **120 (suppl. 1)**:42)
8. seminar at the Laboratoire de Zoologie Appliquée, Faculté des Sciences Agronomiques, Gembloux, Belgium, 16 May 1991: L'emploi de l'écologie comme base pour le pest control de *Mastomys*.
9. lecture at the 6th International Colloquium on the Ecology and Taxonomy of Small African Mammals, Mitzpe-Ramon, Israel, 11-16 August 1991: LEIRS, H., R.VERHAGEN & W.VERHEYEN. Proximate and ultimate causes of seasonal reproduction in *Mastomys*. (abstract: *Israel Journal of Zoology*, **38**:419)
10. lecture at the 2nd Belgian Congress of Zoology, Diepenbeek, Belgium, 15-16 November 1991: LEIRS, H., R.VERHAGEN & W.VERHEYEN. Seasonal breeding in *Mastomys* rats: induction or inhibition by environmental factors ? (abstract: *Belgian Journal of Zoology*, **121 (suppl. 1)**:28)
11. lecture at the First Workshop on Economic importance and control of rodents in Tanzania, Morogoro, Tanzania, 6-8 July 1992: LEIRS, H., T.MBISE, R.VERHAGEN & W.VERHEYEN. Forecasting *Mastomys natalensis* outbreaks in Tanzania: a model using *vuli* and *masika* rainfall data.
12. lecture at the First Workshop on Economic importance and control of rodents in Tanzania, Morogoro, Tanzania, 6-8 July 1992: LEIRS, H., R.VERHAGEN & W.VERHEYEN. Life history variations and reproductive output in subsequent generations of *Mastomys natalensis* rats.
13. lecture at the First Workshop on Economic importance and control of rodents in Tanzania, Morogoro, Tanzania, 6-8 July 1992: LEIRS, H., R.VERHAGEN & W.VERHEYEN. The causation of seasonal reproduction in *Mastomys*.
14. lecture at the 6th International Theriological Congress, Sydney, Australia, 4-10 July 1993: LEIRS, H., R.VERHAGEN & W.VERHEYEN. A comparison between small mammal communities in fallow land and in natural miombo woodland in Tanzania.
15. lecture at the 4th Congress of the European Society for Evolutionary Biology, Montpellier, France, 22-28 August 1993: LEIRS, H., W.VERHEYEN, R.VERHAGEN, W.WENDELEN & L.DE BRUYN. Morphometrical problems due to variable growth seasonality in *Mastomys* rats.
16. lecture at the 3th Belgian Congress of Zoology, Liège, Belgium, 5-6 November 1993: LEIRS, H., W.VERHEYEN, R.VERHAGEN & L.DEBRUYN. Variable growth: a trap for morphometric phylogeny (abstract: *Belgian Journal of Zoology*, **123 (suppl. 1)**:44-45)
17. lecture at the 7th International African Small Mammal Symposium, Itala, South-Africa, 25-30 September 1995: LEIRS, H. Home ranges and movements in *Mastomys natalensis* rats in Tanzania.
18. lecture at the 7th International African Small Mammal Symposium, Itala, South-Africa, 25-30 September 1995: LEIRS, H., N.C.STENSETH, D.HJERMANN & E.JOHANNESSEN. Survival patterns in *Mastomys natalensis* in Tanzania.

19. lecture at the International Colloquium on Ebola Virus Research, Antwerp, Belgium, 4-7 September 1996: KSIAZEK, T., H.LEIRS & P.REITER. Search for the reservoir near Kikwit.
20. lecture at the International Workshop on Rodent Biology and Integrated Pest Management in East Africa, Morogoro, Tanzania, 21-26 October 1996: LEIRS, H. Modeling *Mastomys* population dynamics.
21. lecture at the International Workshop on Rodent Biology and Integrated Pest Management in East Africa, Morogoro, Tanzania, 21-26 October 1996: LEIRS, H. Spatial dynamics of *Mastomys natalensis* in a field-fallow mosaic in Tanzania.
22. divisional seminar at CSIRO's Division of Wildlife and Ecology, Canberra, Australia, 21 August 1997: LEIRS, H. Hunting Ebola in Kikwit & the multimammate rat in Morogoro.
23. lecture at the 7th International Theriological Congress, Acapulco, Mexico, 7-11 September 1997: LEIRS, H., J.MILLS & T.KSIAZEK. Hunting Ebola virus in Kikwit: lessons for mammalogists.
24. lecture at the 7th International Theriological Congress, Acapulco, Mexico, 7-11 September 1997: LEIRS, H. & N.C.STENSETH. Simulating and forecasting African *Mastomys* populations.
25. special seminar at the Workshop on Management of Rodent Pests in Southeastern Asia, International Rice Research Institute, Los Baños, the Philippines, 5-8 April 1998: LEIRS, H. Rodent management in Eastern Africa: challenges and prospects for the future.
26. lecture at the International Conference on Rodent Biology and Management, Beijing, China, 5-9 October 1998: LEIRS, H. Populations of african rodents: models and the real world
27. lecture at the International Conference on Rodent Biology and Management, Beijing, China, 5-9 October 1998: LEIRS, H. Ecologically based rodent management in Africa: no quick solutions for urgent problems
28. lecture at the "Mini-Symposium in honour of Walter Verheyen", 26 November 1998, Antwerp, Belgium: LEIRS, H. Veeltepelratten in de regen.
29. special seminar at the First Project Co-ordination Meeting for Management of Rodent Pests in Rice-Based Farming Systems in Southeast Asia, 19-21 April 1999, Canberra, Australia: LEIRS, H. Age structure differences in *Mastomys natalensis*.
30. lecture at the 3th European Congress of Mammalogy, 29 May - 3 June 1999, Jyväskylä, Finland: CARLSEN, M., J.LODAL, H.LEIRS & T.S.JENSEN. The effects of winter and spring body weights and onset of reproduction in *Microtus agrestis*.
31. lecture at the 3th European Congress of Mammalogy, 29 May - 3 June 1999, Jyväskylä, Finland: VIBE-PETERSEN, S. & H.LEIRS. Prey dynamics of african rats under different predation pressure.
32. invited keynote lecture at the International Symposium on African Small Mammals, 4-9 July 1999, Paris, France: LEIRS, H. The rodent problem in Africa: challenges for ecologically-based management.
33. lecture at the International Symposium on African Small Mammals, 4-9 July 1999, Paris, France: VIBE-PETERSEN, S. & H.LEIRS. Predation in populations of *Mastomys natalensis*: potential for pest management?
34. lecture at the Symposium "Dynamics in time and space: basic and applied issues", Norwegian Academy of Science and letters, 15-17 September 1999, Oslo, Norway: LEIRS, H., J.NICHOLS, R.JULLIARD, N.G.YOCCOZ & R.VERHAGEN. The population dynamics of the multimammate rat in Africa.
35. research seminar "Ratting in the rain: population dynamics of African *Mastomys* rats" at the Department of Population Biology, Copenhagen University, 10 February 2000.
36. lecture at the 8th International Theriological Congress, 12-17 August 2001, Sun City, South Africa: LEIRS, H. & G.SINGLETON. Trends in population ecology of tropical rodents.
37. lecture at the 3rd European Vertebrate Pest Management Conference, 9-14 September 2001, Ma'ale Hachamisha, Israel: LEIRS, H. A bioeconomic model for the management of *Mastomys natalensis* rats in maize fields.
38. lecture at the 3rd European Vertebrate Pest Management Conference, 9-14 September 2001, Ma'ale Hachamisha, Israel: HEIBERG, A.-C. & H.LEIRS. Population effects of anticoagulant rodenticide resistance in Norway rats.
39. invited opening keynote address at the 8th International Conference "Rodens & Spatium", 22-26 July 2002, Louvain-la-Neuve, Belgium: LEIRS, H. African rodents: comes time, comes space.
40. invited lecture at the 10th Meeting of the International Hamsterworkgroup, 12-14 October 2002, Tongeren, Belgium: LEIRS, H. Conservation advices based on rodent pest biology?
41. lecture at the 2nd International Conference on Rodent Biology and Management, 10-14 February 2003, Canberra, Australia: HEIBERG, A. C., LEIRS, H. & SIEGISMUND, H. R. Bromadiolone resistance does not respond to absence of anticoagulants in experimental populations.
42. invited plenary lecture at the 2nd International Conference on Rodent Biology and Management, 10-14 February 2003, Canberra, Australia: LEIRS, H.. Management of rodents in crops: the Pied Piper and his orchestra.
43. lecture at the 2nd International Conference on Rodent Biology and Management, 10-14 February 2003, Canberra, Australia: LEIRS, H., SKONHOFT, A., STENSETH, N. C., & ANDREASSEN, H. P. A bioeconomic model for the management of *Mastomys natalensis* mice in maize fields.

44. lecture at the 2nd International Conference on Rodent Biology and Management, 10-14 February 2003, Canberra, Australia: MASSAWE, A. W., LEIRS, H., RWAMUGIRA, W. P. & MAKUNDI, R. H. Effect of land preparation methods on spatial distribution of rodents in crop fields.
45. lecture at the 2nd International Conference on Rodent Biology and Management, 10-14 February 2003, Canberra, Australia: MULUNGU, L. S., MAKUNDI, R. H. & LEIRS, H. Robustness of techniques for estimating rat damage and yield loss in maize fields.
46. lecture at the 2nd International Conference on Rodent Biology and Management, 10-14 February 2003, Canberra, Australia: NGOWO, V., LODAL, J., MULUNGU, L. S., MAKUNDI, R. H., MASSAWE, A. W. & LEIRS, H.. Evaluation of thiram and cinnamamide as potential repellents against maize-seed depredation by the multimammate rat, *Mastomys natalensis*, in Tanzania.
47. lecture at the 2nd International Conference on Rodent Biology and Management, 10-14 February 2003, Canberra, Australia: SICHILIMA, A. M., ZULU, M. S. & LEIRS, H. The effects of *Tephrosia vogelii* and land preparation methods on mole rat activity in cassava fields.
48. lecture at the 9th African Small Mammal Symposium, 14-18 July 2003, Morogoro, Tanzania: BEKELE, A., LEIRS, H. The effect of *Tephrosia vogelii* on common mole rats in enset fields, Ethiopia.
49. lecture at the 9th African Small Mammal Symposium, 14-18 July 2003, Morogoro, Tanzania: DAVIS, S.A., LEIRS, H., PECH, R., ZHANG, Z., STENSETH, N.C. Predicting rodent outbreaks: does it pay?
50. lecture at the 9th African Small Mammal Symposium, 14-18 July 2003, Morogoro, Tanzania: STENSETH, N.C., LEIRS, H., SKONHOFT, A., DAVIS, S.A., PECH, R.P., ANDREASSEN, H.P., SINGLETON, G.R., LIMA, M., MACHANG'U, R.S., MAKUNDI, R.H., ZHIBIN ZHANG, BROWN, P.R., DAZHAO SHI, XINRONG WAN Mice, Rats and People: population dynamics and bio-economics of agricultural rodent pests.
51. lecture at the 9th African Small Mammal Symposium, 14-18 July 2003, Morogoro, Tanzania: VIBE-PETERSEN, S., LEIRS, H. , DE BRUYN, L., MULUNGU, L.S. Effects of predation pressure on the population dynamics of a pest rodent species in Eastern Africa.
52. lecture at the 9th African Small Mammal Symposium, 14-18 July 2003, Morogoro, Tanzania: VIBE-PETERSEN, S., LEIRS, H., OGUGE, N.O., MAKUNDI, R., SICHILIMA, A. Rodent population dynamics in eastern Africa - a comparative study.
53. lecture at the 9th African Small Mammal Symposium, 14-18 July 2003, Morogoro, Tanzania: ODHIAMBO, R., MAKUNDI, R., LEIRS, H., VERHAGEN, R. Community structure and seasonal abundance of rodents of maize farms in Southwestern Tanzania.
54. lecture at the 9th African Small Mammal Symposium, 14-18 July 2003, Morogoro, Tanzania: OJWANG, D.O., OGUGE, N.O., LEIRS, H. Impact of barn owl predation on population densities of multimammate rat (*Mastomys erythroleucus*) in maize fields in Kenya.
55. lecture at the 9th African Small Mammal Symposium, 14-18 July 2003, Morogoro, Tanzania: KATUALA, P.G.B., HART, J.A., LEIRS, H., DUDU, A. Biodiversity and ecology of small mammals (Rodents and Shrews) of the Okapia Fauna Reserve, Democratic Republic of Congo.
56. lecture at the 9th African Small Mammal Symposium, 14-18 July 2003, Morogoro, Tanzania: ODHIAMBO, C.O., OGUGE, N.O., LEIRS, H. Movements and spatial patterns of *Mastomys erythroleucus* in a maize cropping systems in the Kenyan Rift Valley.
57. lecture at the 9th African Small Mammal Symposium, 14-18 July 2003, Morogoro, Tanzania: SICHILIMA, A.M., ZULU, M.S., LEIRS, H. The effects of *Tephrosia vogelii* and land preparation methods on mole rat damage on cassava tubers.
58. lecture at the 9th African Small Mammal Symposium, 14-18 July 2003, Morogoro, Tanzania: VAN HOOFT, W.F., MACHANG'U, R., MAKUNDI, R., LEIRS, H. Population genetics of the multimammate rat, *Mastomys natalensis*.
59. lecture at the 9th African Small Mammal Symposium, 14-18 July 2003, Morogoro, Tanzania: NGOWO, V., MULUNGU, L.S., LODAL, J., MAKUNDI, R.H., LEIRS, H., MASSAWE, A.W. Evaluation of thiram and cinnamamide for protection of seeds against multimammate rats, *Mastomys natalensis*, in maize fields in Tanzania.
60. lecture at the 9th African Small Mammal Symposium, 14-18 July 2003, Morogoro, Tanzania: OGUGE, N., ODHIAMBO, R., VERHEYEN, W., AGWANDA, B., LEIRS, H. Linking patch-based studies to landscape ecology: *Praomys delectorum* demography in the Taita Hills, Kenya.
61. lecture for the Department of Animal Ecology, Swedish University of Agricultural Sciences, Umeå, Sweden, 10 October 2003: LEIRS, H. *Yersinia pestis* and Ebola: old and new plagues from the bush?
62. lecture at the 10th Benelux Congress of Zoology, 7-8 November 2002, Leiden, the Netherlands: VAN HOOFT, W.F. & H.LEIRS. Population genetics of the African multimammate rat *Mastomys natalensis*.
63. invited foreign lecture at the Annual Meeting of the Danish Society for Infectious Diseases, Hindsgavl Slot, Middelfart, Denmark, 14 May 2004: LEIRS, H. Predictive thresholds for plague in Kazakhstan.
64. invited lecture at the Seminar "Rodent control strategies in organic pig and poultry production systems", Wageningen, The Netherlands, May 26-28 2004: LEIRS, H., J. LODAL & M.K.LAURIDSEN. Factors affecting the presence of rodents in outdoor pig farms in Denmark.

65. lecture at the 19th International Zoological Congress, Beijing, China, 23-27 August 2004: LEIRS, H. Protecting staple crops in Eastern Africa: integrated approaches for ecologically based field rodent pest management.
66. lecture at the 19th International Zoological Congress, Beijing, China, 23-27 August 2004: LEIRS, H. & S.BELMAIN. Prevention of sanitary risks linked to rodents at the rural/peri-urban interface in South-eastern Africa.
67. lecture at the 19th International Zoological Congress, Beijing, China, 23-27 August 2004: DAVIS, S., E. CALVET & LEIRS, H. Fluctuating rodent populations and risk to humans from rodent-borne zoonoses.
68. lecture at the International Meeting "Plague: bacteriology, evolution, ecology, epidemiology and its impact on human history". Oslo, Norway, 9-13 November 2005: MAKUNDI, R.H., H.LEIRS, A.MASSAWE, L.MULUNGU, B.S.KILONZO & R.M.MACHANG'U. Plague in Lushoto, NE Tanzania.
69. lecture at the International Meeting "Plague: bacteriology, evolution, ecology, epidemiology and its impact on human history". Oslo, Norway, 9-13 November 2005: LAUDISOIT, A., H.LEIRS, R.H. MAKUNDI. Plague in the Western Usambara mountains. Ecological study on hosts and vectors of plague in Lushoto district (Tanzania).
70. lecture at the International Meeting "Plague: bacteriology, evolution, ecology, epidemiology and its impact on human history". Oslo, Norway, 9-13 November 2005: DAVIS,S., H.LEIRS, M.BEGON, V.AGEYEV, N.KLASSOVSKIY, S.POLE, N.C.STENSETH, H.VILJUGREIN, L.DE BRUYN. The Threshold Model for Plague.
71. lecture at the International Meeting "Plague: bacteriology, evolution, ecology, epidemiology and its impact on human history". Oslo, Norway, 9-13 November 2005: POLE. S., V.AGEYEV & H.LEIRS. Birds and long-distance spreading of plague in Central-Asia.
72. invited lecture at the International Meeting "Plague: bacteriology, evolution, ecology, epidemiology and its impact on human history". Oslo, Norway, 9-13 November 2005: LEIRS, H. & STEPICA colleagues. A plague prediction "expert system"?
73. invited lecture at the meeting "Challenges in Crop Protection strategies in fruit growing: new research developments", Hasselt, Belgium, 16 November 2005: LEIRS, H. Pest modelling in agriculture.
74. invited lecture at Interregional Meeting on Prevention and Control of Plague, Antananarivo, Madagascar, 7-11 April 2006: LEIRS,H. Natural foci of plague: are they extending world-wide?
75. lecture at Interregional Meeting on Prevention and Control of Plague, Antananarivo, Madagascar, 7-11 April 2006: LEIRS,H. Predictive thresholds for plague surveillance in Kazakhstan
76. invited lecture at "Rats and Human Health in Africa: A Workshop on Rodent-borne Diseases and the RatZooMan Research Project", Pestana Kruger Lodge, South Africa, 4-5 May 2006: LEIRS H. Rats and disease.
77. lecture at "Rats and Human Health in Africa: A Workshop on Rodent-borne Diseases and the RatZooMan Research Project", Pestana Kruger Lodge, South Africa, 4-5 May 2006: LEIRS H. & Ratzooman colleagues. Rodent ecology across rural, peri-urban and urban habitats.
78. lecture at "Rats and Human Health in Africa: A Workshop on Rodent-borne Diseases and the RatZooMan Research Project", Pestana Kruger Lodge, South Africa, 4-5 May 2006: HOLT, J., S. DAVIS & LEIRS H. Predicting disease through mathematical models.
79. invited plenary lecture at the 3rd International Conference on Rodent Biology and Management, 28 August - 1 September 2006, Hanoi, Vietnam: LEIRS, H. Rodents and plague: new attention for an old foe.
80. lecture at the 3rd International Conference on Rodent Biology and Management, 28 August - 1 September 2006, Hanoi, Vietnam: LEIRS H., S.GUNTHER & R.MACHANG'U. An arenavirus isolated from *Mastomys natalensis* in Tanzania: a model for Lassa ecology research?
81. lecture at the 3rd International Conference on Rodent Biology and Management, 28 August - 1 September 2006, Hanoi, Vietnam: LEIRS H. & Ratzooman colleagues. Rodent ecology across rural, peri-urban and urban habitats.
82. lecture at the 3rd International Conference on Rodent Biology and Management, 28 August - 1 September 2006, Hanoi, Vietnam: BELMAIN, S., A.MEYER, M.JANOWSKI, J.HOLT, M.ILES, J.PENDER, L.RITCHIE, A.NILLS, H.LEIRS, S.DAVIS, A.LAUDISOIT, J.LODAL, S.VIBE-PETERSEN, A.C.HEIBERG, R.HARTSKEERL, M.ENGELBERTS, R.MACHANG'U, A.KATAKWEBA, R.NALA, R.THOMPSON, A.MANHICA, M.MPISAUNGA, G.CHIKWENHERE, M.ZIMBA, L.ARNTZEN, J.FREAN, F.KIRSTEN, E.VON MALTITZ, P.MALEBANE & P.TAYLOR. Prevention of sanitary risks linked to rodents at the rural/peri-urban interface in Southeastern Africa: overview and outcomes of the RATZOOMAN project.
83. lecture at the 3rd International Conference on Rodent Biology and Management, 28 August - 1 September 2006, Hanoi, Vietnam: HEIBERG, A.C., H.MARTIN-LEGÈNE, H.LEIRS & H.STEGISMUND. Migration and differentiation between surface rat populations in an urban area. Consequences for the spreading of resistance against rodenticides.

84. lecture at the 3rd International Conference on Rodent Biology and Management, 28 August - 1 September 2006, Hanoi, Vietnam: TERSAGO, K., H.LEIRS & R.VERHAGEN. Hantavirus infection in Belgium; population and transmission dynamics in local bank vole populations.
85. lecture at the 3rd International Conference on Rodent Biology and Management, 28 August - 1 September 2006, Hanoi, Vietnam: KENNIS J., LEIRS H., VAN HOOFT W.F. & MORRISSEY M. Mating system of the multimammate mouse *Mastomys natalensis*.
86. lecture at the 3rd International Conference on Rodent Biology and Management, 28 August - 1 September 2006, Hanoi, Vietnam: KENNIS J., KATUALA P.G.B., GAMBALEMOKE M., MUKINZI I., LEIRS H. & DUDU A.M. Rodents from primary rainforest and degraded habitats around Kisangani (D.R.C.): life history and molecular ecology.
87. lecture at the 3rd International Conference on Rodent Biology and Management, 28 August - 1 September 2006, Hanoi, Vietnam: SLUYDTS, V. L.CRESPIN, S.DAVIS, H.LEIRS & M.LIMA. Rodent outbreaks in Tanzania: Matrix based simulation for testing different hypothesis?
88. invited lecture at the Department of Biology, Jyväskylä University, Finland, 27 October 2006: LEIRS, H. Rodents and plague: new attention for an old foe.
89. lecture at the International Conference on Neglected Infectious Diseases, 8-9 November 2006, Brussels, Belgium: STENSETH, N.C. & H.LEIRS. Plague: a Neglected Infectious Disease.
90. invited lecture at the Department of Population Biology, University of Copenhagen, Denmark, 14 November 2006: LEIRS, H. Predictive thresholds of plague in Kazakhstan: population ecology of an infection in rodents.
91. invited lecture at the Environment and Human Health Workshop, 16-19 April 2007, Liverpool, UK: LEIRS, H. Plague in Central Asia. From a Threshold Model to an Expert System - so far.
92. invited lecture at the 10th African Small Mammal Symposium, Abomey-Calavi, Benin, 20-25 August 2007: LEIRS, H. Zoonotic diseases: a new boost for African Small Mammal Biology.
93. lecture at the 10th African Small Mammal Symposium, Abomey-Calavi, Benin, 20-25 August 2007: AMUNDALA D., KENNIS J., LEIRS H. & DUDU A.M. Rodent crop damage in the Kisangani region (D.R.Congo): preliminary data on damage and rodent ecology in experimental crop fields.
94. lecture at the 10th African Small Mammal Symposium, Abomey-Calavi, Benin, 20-25 August 2007: DURNEZ L., BOEYKENS N., MACHANG'U R.R., KATAKWEBA A., KAZWALA R.R., KATHOLI C.R., PORTAELS F. & LEIRS H. Mycobacterial flora of rodents and insectivores in Africa: a longitudinal study in Morogoro, Tanzania.
95. lecture at the 10th African Small Mammal Symposium, Abomey-Calavi, Benin, 20-25 August 2007: KATUALA, P.G.B., KENNIS, J., NICOLAS, V., WENDELEN, W., HULSELMANS, J., VERHEYEN, E., VAN HOUTTE, N., DIERCKX, T., DUDU, A.M. & LEIRS, H. Zoogeography of *Praomys*, *Lophuromys*, and *Deomys* species in the lowland rainforest around Kisangani and the influence of the Congo river and tributaries on their distribution.
96. lecture at the 10th African Small Mammal Symposium, Abomey-Calavi, Benin, 20-25 August 2007: LAUDISOIT A., NEERINCKX S., LEIRS H., AND MAKUNDI R.H. Rodent and flea communities in villages with different plague frequency in the Western Usambara Mountains, Tanzania.
97. lecture at the 10th African Small Mammal Symposium, Abomey-Calavi, Benin, 20-25 August 2007: KENNIS, J., H.LEIRS *et al.* Comparison of rodents' composition and density in different habitats of a tropical rainforest region using capture-mark-recapture data.
98. lecture at the 6th European Vertebrate Pest Management Conference, 11-15 September 2007, Reading, UK: KRØJGAARD, L., S.VILLUMSEN, M.MARKUSSEN, A.C.HEIBERG, H. LEIRS & J.JENSEN. The prevalence of *Leptospira* sp. in sewer rats (*Rattus norvegicus*).
99. lecture at the 6th European Vertebrate Pest Management Conference, 11-15 September 2007, Reading, UK: STEFFENSEN, L., A.C.HEIBERG & H.LEIRS. Detection of mouse mammary tumour virus in House mice.
100. lecture at the 5th European Congress of Mammalogy, Siena, Italy, 21-26 September 2007: LEIRS, H. & the EDEN ROBO-team: The focal distribution of Puumala hantavirus infection in Europe.
101. lecture at the 5th European Congress of Mammalogy, Siena, Italy, 21-26 September 2007: LEIRS, H. & V.SLUYDTS. Demography and population dynamics of the multimammate mouse (*Mastomys natalensis*) over a range of rainfall regimes in eastern Africa.
102. invited lecture at the Symposium on the Ecology of Plague and its Effects on Wildlife, Fort Collins, CO, USA, 4-6 November 2008: LEIRS, H. S.NEERINCKX, A.LAUDISOIT & R.H. MAKUNDI. Emergence and growth of plague foci in Africa.
103. lecture at the Symposium on the Ecology of Plague and its Effects on Wildlife, Fort Collins, CO, USA, 4-6 November 2008: Davis, S., H.LEIRS, M.BEGON & H.HEESTERBEEK. Remote sensing of plague epizootics in Central Asia.
104. invited lecture at the Belgian Biosafety Symposium, Liège, 11 December 2008: LEIRS, H., Coping with biosafety in extreme field conditions?
105. invited lecture at the Symposium "Zoonoses: Diseases from Nature", Yale School of Public Health, New Haven, CT, April 3-4, 2009: H.LEIRS. Hantavirus in Europe: Spatial and Temporal Aspects.

106. invited lecture at the Symposium of the Platform Biologische Veiligheidsfunctionarissen "De BVF en aangrenzende werkvelden", Ede, the Netherlands, 21 April 2009: LEIRS, H. Omgaan met biologische veiligheid onder extreme veldomstandigheden?
107. invited plenary "Chris Collins lecture" at the 12th Annual Conference of the European Biosafety Association, 15–17 June 2009, Karolinska Institutet, Stockholm-Solna/Sweden: LEIRS, H. Coping with biosafety in extreme field conditions?
108. invited lecture at the Veterinary and Agrochemical Research Center (CODA-CERVA), Brussels, June 2009: LEIRS H. Linking small mammals and (emerging) infectious diseases
109. invited lecture at the Symposium "Emerging and highly pathogenic agents – from discovery to vaccine development" on the occasion of the opening of the extension building and the new biosafety level 4 facility of the Bernhard Nocht Institute for Tropical Medicine, Hamburg, 13-14 July 2009: LEIRS. H. Ecology of rodent-borne diseases: from warm summers to the Black Death, from biofilms to Google Earth.
110. invited lecture at "A conference on Ecology and Evolution" organized by Centre for Ecological and Evolutionary Synthesis in the Norwegian Academy of Science and Letters, Oslo, Norway, Sept 3-5, 2009: LEIRS, H. The eco-epidemiology of plague.
111. lecture at the 4th International Conference on Rodent Biology and Management (ICRBM), Bloemfontein, South Africa, 10-17 April 2010: FICHET-CALVET, E., H.LEIRS & D.ROGERS. Modelled spatial distribution of *Mastomys natalensis* in Africa
112. lecture at the 4th International Conference on Rodent Biology and Management (ICRBM), Bloemfontein, South Africa, 10-17 April 2010: KENNIS, J., P.G.B.KATUALA, V.NICOLAS, J.HULSELMANS, W.WENDELEN, M.GAMBALEMOKE, A.M.DUDU, H.LEIRS & E.VERHEYEN. Rodent biogeography using dated phylogenies: do rivers in the Congo basin act as barriers or as speciation hotspots?
113. lecture at the 4th International Conference on Rodent Biology and Management (ICRBM), Bloemfontein, South Africa, 10-17 April 2010: AMUNDALA, N.D., J.KENNIS, A.DUDU & H.LEIRS. Composition of rodents and rodent damage estimates on mixed fields (maize and rice) in the Kisangani hinterland (Democratic Republic of Congo).
114. lecture at the 4th International Conference on Rodent Biology and Management (ICRBM), Bloemfontein, South Africa, 10-17 April 2010: HEIBERG, A.C. & H.LEIRS. Uncovering the secret lives of sewer rats (*Rattus norvegicus*): Movements and distribution revealed by a capture-mark-recapture study.
115. lecture at the 4th International Conference on Rodent Biology and Management (ICRBM), Bloemfontein, South Africa, 10-17 April 2010: LEIRS, H., S. NEERINCKX, A.LAUDISOIT & R.MAKUNDI. Plague ecology and rodents in Africa: from fleas to satellite images.
116. lecture at the 4th International Conference on Rodent Biology and Management (ICRBM), Bloemfontein, South Africa, 10-17 April 2010: GOÛY DE BELLOCQ,J., B.BORREMANS, A.S.KATAKWEBA, R.H.MAKUNDI, S.J.E.BAIRD, B.BECKER-ZIAJA, S.GÜNTHER & H.LEIRS. Host specificity of an arenavirus in Morogoro, Tanzania.
117. lecture at the 4th International Conference on Rodent Biology and Management (ICRBM), Bloemfontein, South Africa, 10-17 April 2010: BORREMANS, B., H.LEIRS, R.H.MAKUNDI, S.GÜNTHER & J.GOÛY DE BELLOCQ. Arenavirus presence related to host characteristics and biotope; implications for transmission dynamics.
118. lecture at the 4th International Conference on Rodent Biology and Management (ICRBM), Bloemfontein, South Africa, 10-17 April 2010: KENNIS, J., L.CRESPIN, N.D.AMUNDALA, A.M.DUDU & H.LEIRS. Demography of three rodent genera (*Praomys*, *Hylomyscus*, *Deomys*) inhabiting a tropical rainforest region in the DR Congo.
119. lecture at the International Conference EDEN 2010 on Emerging Vector-borne Diseases in a Changing European Environment, 10-11-12th May 2010 - Le Corum, Montpellier, France: TERSAGO, K., R.VERHAGEN & H.LEIRS. Spatio-temporal variation in bank vole hantavirus infection and relation to nephropathia epidemica in humans during an epizootic.
120. lecture at the International Conference EDEN 2010 on Emerging Vector-borne Diseases in a Changing European Environment, 10-11-12th May 2010 - Le Corum, Montpellier, France: CRESPIN, L., K.TERSAGO & H.LEIRS. Does the Puumala virus impact the survival of its host, the Bank Voles *Myodes glareolus*? Insights from a capture-mark-recapture analysis.
121. lecture at the International Conference EDEN 2010 on Emerging Vector-borne Diseases in a Changing European Environment, 10-11-12th May 2010 - Le Corum, Montpellier, France: BORREMANS, B., H.LEIRS, R.MAKUNDI, S.GÜNTHER & J.GOÛY DE BELLOCQ. Presence of Mopeia virus, an African arenavirus, related to individual host characteristics and biotope.
122. lecture at VIII International Conference on HFRS, HPS & Hantaviruses, Athens, Greece, 20-22 May: TERSAGO, K., R.VERHAGEN & H.LEIRS. Variation in Bank Vole Hantavirus Infection and Relation to Nephropathia Epidemica in Humans during an Epizootic.

123. invited lecture at the Hantavirus Workshop, University of Liverpool, UK, 29-30 July 2010: LEIRS, H. Hantavirus ecology: spatial and temporal aspects.
124. invited lecture at the 10th International Symposium on *Yersinia*, Recife, Brasil, 23-27 October 2010: LEIRS, H. The patchy distribution of plague.
125. invited lecture at the meeting of the "Koninklijke Academie voor Overzeese Wetenschappen", Brussels, 29 March 2011: LEIRS, H. Rodents in Africa: of mice and men.
126. invited lecture at the Institute for Biodiversity and Ecosystem Dynamics, Universiteit van Amsterdam, the Netherlands, 21 April 2011: LEIRS, H. Predictive thresholds for infections: of mice and men.
127. invited lecture at the 5th Joint Meeting of European Advisory Committees on Biosafety, 23-24 May 2011, Berne, Switzerland: LEIRS, H. Coping with biosafety in extreme field conditions.
128. lecture at the 11th African Small Mammal Symposium, Kwaluseni, Swaziland, 3-8 July 2011: H.LEIRS, D.DE RICHTER, S.VIBE-PETERSEN & C.A.SABUNI. Differential predation by barn owls (*Tyto alba*) on field rodents in Tanzania: old males are more at risk.
129. abstract for the 11th African Small Mammal Symposium, Kwaluseni, Swaziland, 3-8 July 2011: I.J.C.MUKINZI, R.HUTTERER, M.GAMBALEMOKE, P.BARRIÈRE, M.COLYN, H.LEIRS & A.DUDU. Abundance, reproduction and population structure of three African shrews: *Sylvisorex cf ollula* Thomas, 1910, *Scutisorex somereni* (Thomas, 1910) and *Crocidura dolichura* Peters, 1876 (Soricidae Mammalia) from the Yoko Forest Reserve (DRC).
130. abstract for the 11th African Small Mammal Symposium, Kwaluseni, Swaziland, 3-8 July 2011: D.AMUNDALA, A.DUDU & H.LEIRS. Farmers' perceptions on rodents as crop pests and practices in rodent pest management in Faradje region in northwest of the DRC.
131. lecture at the 11th African Small Mammal Symposium, Kwaluseni, Swaziland, 3-8 July 2011: C.A.SABUNI, H.LEIRS, R.H.MAKUNDI & S.L.S.MAGANGA. The use of camera traps in the study of the ecology of Black-and-rufous sengi (*Rhynchocyon petersi*) in Zaraninge coastal forest, Tanzania.
132. lecture at the 11th African Small Mammal Symposium, Kwaluseni, Swaziland, 3-8 July 2011: S.GRYSEELS, S.BAIRD, R.H.MAKUNDI, A.RIBAS, H.LEIRS & J.GOÛY DE BELLOCQ. Landscape genetics of Mopeia virus and its host (*Mastomys natalensis*) in Morogoro region, Tanzania.
133. lecture at the 11th African Small Mammal Symposium, Kwaluseni, Swaziland, 3-8 July 2011: J.GOÛY DE BELLOCQ, S.J.E.BAIRD, S.GRYSEELS, B.BORREMANS, J.ZIMA JR, J.BRYJA, S.GÜNTHER, R.H.MAKUNDI & H.LEIRS. Mopeia Virus in Morogoro, Tanzania.
134. lecture at the 11th African Small Mammal Symposium, Kwaluseni, Swaziland, 3-8 July 2011: MEHERETU Y.MADEBO, K.WELEGERIMA, A.LAUDISOIT, H.BAUER, K. GEBREHIWOT, S.DECKERS, A.KATAKWEBA, R.MAKUNDI & H.LEIRS. Rodent-ectoparasite associations in the highlands of Tigray, Northern Ethiopia: Implications for potential zoonoses.
135. abstract for the 11th African Small Mammal Symposium, Kwaluseni, Swaziland, 3-8 July 2011: N.A.RALAIZAFISOLOARIVONY, D.N.KIMARO, N.I.KIHUPI, L.S.MULUNGU, H.LEIRS, B.M.MSANYA, J.L.MELIYO, J.A.DECKERS & H.GULINCK. Community and diversity of potential plague small mammals in different landscapes in West Usambara Mountains, Tanzania.
136. abstract for the 11th African Small Mammal Symposium, Kwaluseni, Swaziland, 3-8 July 2011: N.A.RALAIZAFISOLOARIVONY, D.N.KIMARO, N.I.KIHUPI, L.S.MULUNGU, H.LEIRS, B.M.MSANYA, J.L.MELIYO, J.A.DECKERS & H.GULINCK. Spatial analysis of vegetation communities with respect to small mammals potential for plague occurrence in Western Usambara Mountains, Tanzania.
137. invited lecture at the VIth European Congress of Mammalogy, Paris, France, 19-23 July 2011: H.LEIRS. Plague ecology in Kazakhstan: rodents and thresholds.
138. lecture at the VIth European Congress of Mammalogy, Paris, France, 19-23 July 2011: H.HENTTONEN, H.LEIRS, E.R.KALLIO, K.TERSAGO, L.VOUTLAINEN. Biome-specific rodent dynamics and hantavirus epidemiologies in Europe. Plague ecology in Kazakhstan: rodents and thresholds.
139. lecture at the workshop "Rodent population ecology, behavior and management in the North and South", Konnevesi, Finland, 21-24 February 2012: H.LEIRS. Ecologically-based rodent management and infectious diseases: One step beyond?
140. invited lecture at the 3. Workshop des Netzwerks Nagetier-übertragene Pathogene, Munchen, Germany, 21-23 November 2012: H.LEIRS. Rodent host thresholds in disease ecology: from plague to hantavirus, from theory to Google Earth.
141. lecture at the Conference on Soils, Land Use and Health. Lushoto, Tanzania, 28-31 August 2013: H.LEIRS. Understanding plague in Lushoto. Where are we now?
142. invited lecture at the International Conference "Nutrition and Food Production in the Congo Basin", Brussels, 30 September - 1 October 2013. H.LEIRS. Pre- and postharvest losses in the Congo Basin. The dark side of biodiversity?
143. lecture at EPIDEMICS⁴, the 4th International Conference on Infectious Disease Dynamics, Amsterdam, The Netherlands, 19-22 November: B.BORREMANS, J.REIJNIERS, N.K.HUGHES, R.H.MAKUNDI, H.LEIRS. Contacts in semi-natural mouse populations are heterogeneous and intermediate between density and frequency dependency.

144. lecture at EPIDEMICS⁴, the 4th International Conference on Infectious Disease Dynamics, Amsterdam, The Netherlands, 19-22 November: S.GRYSEELS, S.BAIRD, R.MAKUNDI, B.BORREMANS, A.BRYJOVÁ, H. LEIRS & J.GOÛY DE BELLOCQ. Contrasting evolutionary patterns in recent and deep time suggest old origins for East-African arenaviruses and strong specificity to their multimammate mouse hosts.
145. invited lecture at the Training Workshop "Visual Representations of the Third Plague Pandemic" at the Centre for Research in the Arts, Social Sciences and Humanities, University of Cambridge, 19-20 May 2014: H.LEIRS. Plague: a global, but patchy, distribution.
146. lecture at the 5th International Conference on Rodent Biology and Management, Zhengzhou, China, 25-29 August 2014: H.LEIRS. The ecology of arenavirus infections in rodents in Africa.
147. lecture at the 5th International Conference on Rodent Biology and Management, Zhengzhou, China, 25-29 August 2014: S.GRYSEELS, H.LEIRS, J.GOUY DE BELLOCQ & S.BAIRD. Genetic distinction between contiguous urban and rural multimammate mice in Tanzania: incipient speciation in synanthropy?
148. lecture at the 5th International Conference on Rodent Biology and Management, Zhengzhou, China, 25-29 August 2014: L.S.MULUNGU, A.W.MASSAWE, R.H.MAKUNDI & H. LEIRS. Comparing population dynamics and breeding patterns of *Mastomys natalensis* in three different agricultural practices.
149. lecture at the 5th International Conference on Rodent Biology and Management, Zhengzhou, China, 25-29 August 2014: S.R.BELMAIN, P.R.BROWN, R.DAVIES, S.J.EISEB, S.M.GOODMAN, F.KIRSTEN, H.LEIRS, T.MAHLABA, R.H.MAKUNDI, E.VON MALTITZ, P.MALEBANE, A.W.MASSAWE, A.MONADJEM, L.S.MULUNGU, G.R.SINGLETON, V.L.SOARIMALALA, L.SWANPEOEL, P.J.TAYLOR & M.WILSON. The STOPRATS project: the next step in delivering Ecologically-Based Rodent Management in Africa.
150. lecture at the 5th International Conference on Rodent Biology and Management, Zhengzhou, China, 25-29 August 2014: K.R.R.SWINNEN, M.J.J.LA HAYE, A.T.KUITERS, H.LEIRS & H.SIEPEL. What can a stochastic population model teach us for better management of the highly threatened common hamster (*Cricetus cricetus*)?
151. lecture at the 5th International Conference on Rodent Biology and Management, Zhengzhou, China, 25-29 August 2014: B.BORREMANS, J.REIJNIERS, N.HUGHES, S.GRYSEELS, R. MAKUNDI & H.LEIRS. Scaling of contacts with rodent population density.
152. lecture at the 5th International Conference on Rodent Biology and Management, Zhengzhou, China, 25-29 August 2014: B.BORREMANS, J.REIJNIERS, PH.BEUTELS, H.LEIRS, & N.HENS. Estimating time since infection using antibody titers.
153. invited lecture at the meeting "The past plague pandemics (Justinian, Black Death, Third) in light of modern Molecular Life Science insights", Norwegian Academy of Science and Letters, Oslo, Norway, November 19-20, 2014: H.LEIRS. Introduction to the biology of plague.
154. invited lecture at the 6th International Symposium of Integrative Zoology, Beijing, China, 24-25 November 2014: H.LEIRS. Rodent and flea abundance thresholds: an ecological explanation for the occurrence of plague.
155. invited lecture at the Department of Vector Biology and Control, National Institute for Communicable Disease Control and Prevention, Chinese Center for Disease Control and Prevention, 26 November 2014: H.LEIRS. Rodent and flea abundance thresholds: an ecological explanation for the occurrence of plague.
156. invited plenary lecture at the 7th International Symposium of Integrative Zoology 25-28 Aug 2015, Xi'an, Shaanxi, China: H.LEIRS, C.SABUNI, L.MULUNGU, A.MASSAWE & R.MAKUNDI. Long-term CMR studies in *Mastomys natalensis* in Tanzania.
157. invited lecture at the 7th International Symposium of Integrative Zoology 25-28 Aug 2015, Xi'an, Shaanxi, China: H.LEIRS, J.REIJNIERS & M.BEGON. Plague in great gerbils: cyclicality and stochasticity.
158. invited lecture at the Leibniz Center Infection Symposium 2017 "Evolution and Infection", 19-20 January 2017, Hamburg, Germany: H.Leirs & S.Gryseels. Diversity of arenaviruses in African rodents: co-evolution and host barriers.
159. invited talk at the Apopo 20th Anniversary Celebration, 13 October 2017, Geneva, Switzerland: H.LEIRS. Rat biology and social misconceptions.
160. invited lecture at the Conférence Internationale Scientifique Santé-Biodiversité, 12-17 December 2017, La Réunion: H.LEIRS. Small mammals and One Health: linking ecology to human society.
161. invited lecture at the 11th Jyväskylä Winter School of Ecology: Workshop: Population Cycles and Outbreaks: Still of interest or historical debate?, 21-24 February 2018, Jyväskylä, Finland: H.LEIRS. Gerbils, fleas and plague epizootic cycles in Central Asia.

4.4.2. Posters

1. poster at the 29th International Colloquium on Hantaviruses, Antwerpen, Belgium, 10 December - 11 December 1987: LEIRS H., R.VERHAGEN & G.VAN DER GROEN. Polyhostal nature and worldwide distribution of Hantaviruses.

2. poster at the 29th International Colloquium on Hantaviruses, Antwerpen, Belgium, 10 December - 11 December 1987: VERHAGEN R., H.LEIRS, G.VAN DER GROEN, J.CLEMENT & TH.DEGREZ. The occurrence of Hantavirus in wild living rodents in relation with clinical Hantavirus cases in Belgium.
3. poster and short oral presentation at the XIIth International Congress for Tropical Medicine and Malaria, Amsterdam, The Netherlands, 18-23 September 1988: LEIRS H., G.HOOFD, W.VERHEYEN, B.KILONZO, R.MAKUNDI, R.VERHAGEN, G.LLOYD & G.VAN DER GROEN. Is Lassa or a Lassa related virus present in rodents in Tanzania ?
4. poster at the 5th International Theriological Congress, Roma, Italy, 22-29 September 1989: LEIRS H., R.VERHAGEN & W.VERHEYEN. Growth phenomena and their relation with rainfall in a population of *Mastomys natalensis* (Smith, 1834) in Morogoro, Tanzania.
5. poster at the 1st Belgian Congress of Zoology, Antwerp, Belgium, 16-17 November 1990: LEIRS H. & L.DE BRUYN. MAINBIB: a new personal computer program for the maintenance of scientific libraries. (abstract: *Belgian Journal of Zoology*, **120 (suppl. 1)**:42).
6. poster at the 1st Belgian Congress of Zoology, Antwerp, Belgium, 16-17 November 1990: LEIRS H., R.VERHAGEN, J.STUYCK & W.VERHEYEN. Seasonal variation in the diet of *Mastomys natalensis* in Tanzania: relation with the reproductive season. (abstract: *Belgian Journal of Zoology*, **120 (suppl. 1)**:43)
7. poster at the 1st Belgian Congress of Zoology, Antwerp, Belgium, 16-17 November 1990: VERHAGEN R., H.LEIRS, J.STUYCK & W.VERHEYEN. An ecological study of small mammals in a Miombo forest near Morogoro, Tanzania. (abstract: *Belgian Journal of Zoology*, **120 (suppl. 1)**:65)
8. poster and oral presentation at the 6th International Colloquium on the Ecology and Taxonomy of Small African Mammals, Mitzpe-Ramon, Israel, 11-16 August 1991: VERHAGEN,R., H.LEIRS & W.VERHEYEN. Ecological strategies of small mammals in a Miombo forest near Morogoro, Tanzania. (abstract: *Israel Journal of Zoology*, **38**:419)
9. poster at the 2nd Belgian Congress of Zoology, Diepenbeek, Belgium, 15-16 November 1991:
10. LEIRS,H., C.HEYRMAN, R.VERHAGEN & W.VERHEYEN. Lack of geographical variation in Tanzanian *Mastomys* ; zoogeographic consequences. (abstract: *Belgian Journal of Zoology*, **121 (suppl. 1)**:27)
11. poster at the 2nd Belgian Congress of Zoology, Diepenbeek, Belgium, 15-16 November 1991: LEIRS,H., R.VERHAGEN & W.VERHEYEN. Life history variations in subsequent generations of *Mastomys*. (abstract: *Belgian Journal of Zoology*, **121 (suppl. 1)**:27)
12. poster at the First Workshop on Economic importance and control of rodents in Tanzania, Morogoro, Tanzania, 6-8 July 1992: LEIRS,H., C.HEYRMAN, R.MAKUNDI, R.VERHAGEN & W.VERHEYEN. Lack of geographic variation in Tanzanian *Mastomys* ; zoogeographic consequences.
13. poster at the First Workshop on Economic importance and control of rodents in Tanzania, Morogoro, Tanzania, 6-8 July 1992: VERHAGEN,R., H.LEIRS & W.VERHEYEN. Ecological strategies of small mammals in a *miombo* forest in Dakawa, Tanzania.
14. poster at the 4th International Conference "Rodens & Spatium", Mikołajki, Poland, 24-28 May 1993: LEIRS,H., R.VERHAGEN & W.VERHEYEN. *Mastomys* seasonal reproduction: tuned by the presence of new vegetation ? (abstract: *Mammalia*, **57(4)**:635-636)
15. poster at the 4th International Conference "Rodens & Spatium", Mikołajki, Poland, 24-28 May 1993: LEIRS,H., T.BACKELJAU, R.VERHAGEN & W.VERHEYEN. *Mastomys* rats in Tanzania: taxonomic and zoogeographic considerations. (abstract: *Mammalia*, **57(4)**:635)
16. poster at the 4th International Conference "Rodens & Spatium", Mikołajki, Poland, 24-28 May 1993: VERHAGEN,R., H.LEIRS, A.LEMOUCHE & W.VERHEYEN. A new field technique to study juvenile dispersal in rodents. (abstract: *Mammalia*, **57(4)**:647)
17. poster at the 6th International Theriological Congress, Sydney, Australia, 4-10 July 1993: LEIRS,H., R.VERHAGEN & W.VERHEYEN. Some data on the biology of *Nasillo brachyrhynchus* in natural miombo woodland in Tanzania.
18. poster at the 6th International Theriological Congress, Sydney, Australia, 4-10 July 1993: LEIRS,H., R.VERHAGEN & W.VERHEYEN. Life history variation and the consequences for population dynamics in *Mastomys natalensis* rats in Tanzania.
19. poster at the 3th Belgian Congress of Zoology, Liège, Belgium, 5-6 November 1993: VERHAGEN,R., S.VERKEM, H.LEIRS & A.LEMOUCHE. Juvenile dispersal in wood mice. (abstract: *Belgian Journal of Zoology*, **123 (suppl. 1)**:87)
20. poster at the 6th International Congress of Ecology, Manchester, UK, 21-26 August 1994: LEIRS,H., R.VERHAGEN, W.VERHEYEN & P.MWANJABE. Forecasting rodent outbreaks in sub-saharan Africa: rainfall and population dynamics.
21. poster at the 2nd European Congress of Mammalogy, Southampton, UK, 27-31 March 1995: LEIRS,H. Forecasting rodent outbreaks in Africa from rainfall patterns.
22. poster at the 2nd European Congress of Mammalogy, Southampton, UK, 27-31 March 1995: VERHAGEN,R., S.VERKEM & H.LEIRS. Do emigrant wood mice (*Apodemus sylvaticus*) survive and reproduce better than resident ones ?

23. poster at the 7th International African Small Mammal Symposium, Itala, South-Africa, 25-30 September 1995: FIRQUET,E. & H.LEIRS. Breeding seasonality and germinating grass in *Mastomys* rats.
24. poster at the 7th International African Small Mammal Symposium, Itala, South-Africa, 25-30 September 1995: VERHEYEN,E., K.BREUGELMANS, J.M.TIMMERMANS, H.LEIRS & W.VERHEYEN. A phylogeny of african Muridae based upon nucleotide sequences of two mitochondrial genes.
25. poster at the International Workshop on Rodent Biology and Integrated Pest Management in East Africa, Morogoro, Tanzania, 21-26 October 1996: MERCELIS,S., H.LEIRS & W.VERHEYEN. The effects of agroforestry techniques on the habitat quality of agricultural fields for rodents.
26. poster at the International Workshop on Rodent Biology and Integrated Pest Management in East Africa, Morogoro, Tanzania, 21-26 October 1996: FIRQUET,E., H.LEIRS & G.BRONNER. Breeding seasonality and germinating grass in *Mastomys* rats.
27. poster at the International Workshop on Rodent Biology and Integrated Pest Management in East Africa, Morogoro, Tanzania, 21-26 October 1996: FIRQUET,E., E.VERHEYEN, H.LEIRS & W.VERHEYEN. Phylogeny of the genus *Mastomys* based on mitochondrial DNA sequences: preliminary results.
28. poster at the International Conference on Rodent Biology and Management, Beijing, China, 5-9 October 1998: LARSEN, K.S., H.LEIRS & J.LODAL. Palatability and toxicity tests with a systemic insecticide in a rodenticide bait for rat and flea control.
29. poster at the International Conference on Rodent Biology and Management, Beijing, China, 5-9 October 1998: VIBE-PETERSEN, S., H.LEIRS & T.VAN GULCK. Predation pressure and population dynamics in African *Mastomys* rats: possibilities for integrated pest management.
30. poster at the 3th European Congress of Mammalogy, 29 May - 3 June 1999, Jyväskylä, Finland.
31. BOLBROE, T., L.L.JEPPESSEN & H.LEIRS. Behavioural response of field voles under mustelid predation risk in the laboratory: more than neophobia.
32. poster at the 3th European Congress of Mammalogy, 29 May - 3 June 1999, Jyväskylä, Finland: HEIBERG, A.-C. & H.LEIRS. Population effects of anticoagulant rodenticide resistance in Norway rats.
33. poster at the International Symposium on African Small Mammals, 4-9 July 1999, Paris, France: MERCELIS, S., H.LEIRS & R.VERHAGEN. The recolonisation of 'emptied' maize fields by rodents: implications for rodent control
34. poster at the International Symposium on African Small Mammals, 4-9 July 1999, Paris, France: VAN CAKENBERGHE, V., F.DE VREE & H.LEIRS. The bats (Chiroptera) from Kikwit, Democratic Republic of the Congo.
35. poster at the 2nd European Vertebrate Pest Management Conference, 6-8 September 1999, Braunschweig, Germany. HEIBERG, A.-C. & H.LEIRS. Population effects of anticoagulant rodenticide resistance in Norway rats.
36. poster at the 8th International Theriological Congress, 12-17 August 2001, Sun City, South Africa: MOHR,K., S.VIBE-PETERSEN, L.L.JEPPESSEN & H.LEIRS. Feeding decisions as an anti-predation strategy in the African multimammate rat *Mastomys natalensis*.
37. poster at the 8th International Theriological Congress, 12-17 August 2001, Sun City, South Africa: VIBE-PETERSEN, S., H.LEIRS, L.DE BRUYN & L.MULUNGU. The effect of different predation pressure on the population dynamics of *Mastomys natalensis* and subsequent effect on crop damage and yield.
38. poster at the 8th International Conference "Rodens & Spatium", 22-26 July 2002, Louvain-la-Neuve, Belgium: VIBE-PETERSEN, S. & H.LEIRS. Body weight of African multimammate mice exposed to different predation pressure.
39. poster at the 8th International Conference "Rodens & Spatium", 22-26 July 2002, Louvain-la-Neuve, Belgium: PETERSEN, H:H., L.L.JEPPESSEN, VIBE-PETERSEN, S. & H.LEIRS. Predation risk assessment in the African multimammate mouse *Mastomys natalensis* (A. Smith 1834).
40. poster at the 9th Benelux Congress of Zoology, 8-9 November 2002, Antwerp, Belgium: MINTEN, J. & H.LEIRS. A description of the process of recolonisation after pest control of *Mastomys natalensis* mice in Tanzanian maize fields.
41. poster at the 9th Benelux Congress of Zoology, 8-9 November 2002, Antwerp, Belgium: MOHR,K. S.VIBE-PETERSEN, L.L.JEPPESSEN, M.BILDSØE & H.LEIRS. Foraging of multimammate mice (*Mastomys natalensis*) under different predation pressure: cover, patch dependent decisions and density-dependent GUDs.
42. poster at the 9th Benelux Congress of Zoology, 8-9 November 2002, Antwerp, Belgium: ODHIAMBO,R., R.VERHAGEN, R.MAKUNDI, N.OGUGE, M.CORTI, A.BEKELE, A.SICHILIMA, H.LEIRS. Rodent pests of staple crops in eastern Africa: densities and community dynamics.
43. poster at the 9th Benelux Congress of Zoology, 8-9 November 2002, Antwerp, Belgium: SLUYDTS, V. & H.LEIRS. Population dynamics and demographic properties of *Mastomys natalensis* (Smith, 1834) in monoculture and mosaic fields.
44. poster at the 9th Benelux Congress of Zoology, 8-9 November 2002, Antwerp, Belgium: BEERNAERT,J., J.SCHEIRS, H.LEIRS & R.VERHAGEN. Effects of chronic exposure to pollutants on the foraging behaviour of the Wood mouse, *Apodemus sylvaticus*.

45. poster at the 2nd International Conference on Rodent Biology and Management, 10-14 February 2003, Canberra, Australia: BEKELE, A., LEIRS, H. & VERHAGEN, R. 2002. Composition of rodents and damage estimates on maize farms at Ziway, Ethiopia.
46. poster at the 2nd International Conference on Rodent Biology and Management, 10-14 February 2003, Canberra, Australia: MULUNGU, L. S., MAKUNDI, R. H., LEIRS, H., MASSAWE, A. W., VIBE-PETERSEN, S. & STENSETH, N. C. The rodent density-damage function in maize fields at an early growth stage.
47. poster at the 9th African Small Mammal Symposium, 14-18 July 2003, Morogoro, Tanzania: LEIRS, H., VIBE-PETERSEN, S., MACHANG'U, R. Survival and recruitment of juvenile *Mastomys natalensis*: laboratory and field experiments.
48. poster at the 9th African Small Mammal Symposium, 14-18 July 2003, Morogoro, Tanzania: SLUYDTS, V., LEIRS, H., Population ecology of multimammate mice in monoculture and mosaic fields.
49. poster at the 9th African Small Mammal Symposium, 14-18 July 2003, Morogoro, Tanzania: MINTEN, J. & LEIRS, H., Recolonization after pest control of *Mastomys natalensis* mice in Tanzanian maize fields.
50. poster at the 9th African Small Mammal Symposium, 14-18 July 2003, Morogoro, Tanzania: VIBE-PETERSEN, S. & LEIRS, H., Body weight of African multimammate mice exposed to different predation pressure.
51. poster at the 9th African Small Mammal Symposium, 14-18 July 2003, Morogoro, Tanzania: MUTINDA A.M., OGUGE N.O., LEIRS H. Rodent pests problems and farmer management practices in Rongai Division, Nakuru District, Kenya.
52. poster at the 9th African Small Mammal Symposium, 14-18 July 2003, Morogoro, Tanzania: BREVIG, T., STENSETH, N.C., LEIRS, H., Evaluating control strategies for African multimammate mice: a modelling approach including economy.
53. poster at the 9th African Small Mammal Symposium, 14-18 July 2003, Morogoro, Tanzania: A.W.MASSAWE, W. RWAMUGIRA, H. LEIRS, R.H. MAKUNDI & L.MULUNGU. Influence of land preparation methods and vegetation cover on population abundance of *Mastomys natalensis* in Morogoro, Tanzania.
54. poster at the 9th African Small Mammal Symposium, 14-18 July 2003, Morogoro, Tanzania: MULUNGU, L.S., MAKUNDI, R.H., LEIRS, H., MASSAWE, A.W., MACHANG'U, R.S. , NGOWO, V. , Spatial pattern and distribution of rodent damage in maize fields in Tanzania.
55. poster at the 9th African Small Mammal Symposium, 14-18 July 2003, Morogoro, Tanzania: VERHEYEN, E., DILLEN, M., COLYN, M., LEIRS, H., OGUGE, N., VOGEL, P., CATZEFELIS, F., CORTI, M., VERHEYEN, W. The diversity of African pigmy mice (*Nannomys*, Muridae) is confirmed by mitochondrial DNA cytochrome b sequences.
56. poster at the 9th African Small Mammal Symposium, 14-18 July 2003, Morogoro, Tanzania: MAKUNDI, R.H., AFEWORK BEKELE, H.LEIRS, A.W.MASSAWE, W.RWAMUGIRA & L.S. MULUNGU. Farmers' perceptions of rodents as crop pests: A farmer participatory study in Tanzania and Ethiopia.
57. poster at the 9th African Small Mammal Symposium, 14-18 July 2003, Morogoro, Tanzania: PETERSEN, H.H., JEPPESEN, L.L., VIBE-PETERSEN, S., LEIRS, H., Predation risk assessments in the African multimammate mouse *Mastomys natalensis* (A Smith 1834).
58. poster at the 9th African Small Mammal Symposium, 14-18 July 2003, Morogoro, Tanzania: MOHR, K., VIBE-PETERSEN, S., JEPPESEN, L. L., BILDSØE, M. & LEIRS, H., Foraging of multimammate mice, *Mastomys natalensis*, under different predation pressure: cover, patch dependent decisions and density-dependent GUDs.
59. poster at the 9th African Small Mammal Symposium, 14-18 July 2003, Morogoro, Tanzania: ODHIAMBO, R., VERHAGEN, R., MAKUNDI, R. OGUGE, N., CORTI, M., AFEWORK BEKELE, SICHILIMA, A., LEIRS, H. Rodent pests of staple crops in eastern Africa: Densities and community dynamics.
60. poster at the 9th African Small Mammal Symposium, 14-18 July 2003, Morogoro, Tanzania: CORTI M., CASTIGLIA R., COLANGELO P., AFEWORK BEKELE, MAKUNDI R., OGUGE N., SICHILIMA A., VERHAGEN R., LEIRS H. A cytotoxic report of the rodent species from the STAPLERAT project (Ethiopia, Kenya, Tanzania, Zambia).
61. poster at the 19th International Zoological Congress, Beijing, China, 23-27 August 2004: MASSAWE,A., W.RWAMUGIRA, H.LEIRS, R.H.MAKUNDI & L.MULUNGU. Do farming practices influence population dynamics of rodents? A case study of the multimammate field rats, *Mastomys natalensis*, in Tanzania.
62. poster at the 11th Benelux Congress of Zoology, Louvain-La-Neuve, Belgium, 5-6 November 2004: SLUYDTS, V., VIBE-PETERSEN, S., MAKUNDI, R.H., OGUGE, N.O., SICHILIMA, A.M. & LEIRS, H. A bio-economic model for rodent control in Africa: a regional solution for a local problem?
63. poster at the 12th Benelux Congress of Zoology, Wageningen, the Netherlands, 26-28 October 2005: KENNIS, J., H.LEIRS & W.F. VAN HOOFT. Mating system of the multimammate mouse *Mastomys natalensis*.
162. poster at the 3rd International Conference on Rodent Biology and Management, 28 August - 1 September 2006, Hanoi, Vietnam: HEIBERG, A.C., S.VIBE-PETERSEN & H.LEIRS. A sewage rat project focusing on population dynamics, control and resistance.

163. poster at the 3rd International Conference on Rodent Biology and Management, 28 August - 1 September 2006, Hanoi, Vietnam: MASSAWE, A.W., W. RWAMUGIRA, H. LEIRS, R. H. MAKUNDI & L.MULUNGU. Soil type may limit population abundance of rodents in crop fields: Case study of *Mastomys natalensis* in Tanzania.
164. poster at the 3rd International Conference on Rodent Biology and Management, 28 August - 1 September 2006, Hanoi, Vietnam: MULUNGU, L.S., R.H.MAKUNDI, A.MASSAWE & H.LEIRS. Sampling intensity and precision for estimating rat damage using systematic row sampling technique in maize fields.
165. poster at the 3rd International Conference on Rodent Biology and Management, 28 August - 1 September 2006, Hanoi, Vietnam: SLUYDTS, V., E.MSHUZA, R.MAKUNDI, V.NGOWO & H.LEIRS. Bio-economic modeling in practice: a field experiment and a Farmer Participatory Research.
166. poster at the 3rd International Conference on Rodent Biology and Management, 28 August - 1 September 2006, Hanoi, Vietnam: VERHEYEN E., W.VERHEYEN, M.COLYN, P.BARRIERE, J.KENNIS, M.GAMBALEMOKE, P.G.B.KATUALA, I.MUKINZI, H.LEIRS, A.M.DUDU. Species identification of rodents and shrews from Kisangani (D.R.Congo): A DNA barcoding approach allows the translation of sequences into species names.
167. poster at the Highland 2006 Conference on Environmental Change, Geomorphic processes, Land Degradation and Rehabilitation in Tropical and Subtropical Highlands, 19-25 September 2006, Mekelle, Ethiopia. MEHERETU, Y., M.D'AES, H.LEIRS, J. POESEN, S.DECKERS & J.NYSSEN. Impact of stone bunds on rodent dynamics in the Tigray Highlands (Ethiopia).
168. poster at the 10th African Small Mammal Symposium, Abomey-Calavi, Benin, 20-25 August 2007: DURNEZ L. SUYKERBUYK P., JOHNSON C.R., LEIRS H. & PORTAELS F. The role of rodents and insectivores as reservoir of Buruli ulcer in Benin: work in progress.
169. poster at the 10th African Small Mammal Symposium, Abomey-Calavi, Benin, 20-25 August 2007: GAMBALEMOKE, M., MUKINZI I., AMUNDALA D., GEMBU T., KASWERA K., KATUALA G.B., DUDU A., BARRIERE P., HUTTERER R., LEIRS H., VANLINDEN B. & VERHEYEN E. Microgeographical distribution of shrews (*Soricomorpha*, *Soricidae*) in lowland tropical forests from the Congo River basin (Kisangani, D.R. Congo).
170. poster at the 10th African Small Mammal Symposium, Abomey-Calavi, Benin, 20-25 August 2007: GAMBALEMOKE, M., MUKINZI I., AMUNDALA D., KATUALA G.B., KENNIS J., DUDU A., HUTTERER R., BARRIERE P., LEIRS H. & VERHEYEN E. Shrew trap efficiency: experience from primary forests, secondary forests, old fallow land and old palm plantation in the Congo River Basin (Kisangani, D.R.Congo).
171. poster at the 10th African Small Mammal Symposium, Abomey-Calavi, Benin, 20-25 August 2007: KENNIS J., NICOLAS V., KATUALA P.G.B., WENDELEN W., HULSELMANS J., VERHEYEN E., VAN HOUTTE N., DIERCKX T., DUDU A.M. & LEIRS H. Cryptic diversity within species or different species? A taxonomical question studied using the *Praomys* and *Hylomyscus* Rodentia genera of the Kisangani region (D.R.Congo) as an example.
172. poster at the 10th African Small Mammal Symposium, Abomey-Calavi, Benin, 20-25 August 2007: MEULEPAS G., LEIRS H. & VAN DONGEN S. The importance of developmental instability and canalization regarding the development of the skull of the multimammate rat (*Mastomys natalensis*).
173. poster at the 10th African Small Mammal Symposium, Abomey-Calavi, Benin, 20-25 August 2007: OLAYEMI A., NICOLAS V., COLYN M3., LEIRS H. & VERHEYEN E. Various murid rodents from Nigeria represent cryptic, previously undescribed taxa: preliminary DNA evidence.
174. poster at the 10th African Small Mammal Symposium, Abomey-Calavi, Benin, 20-25 August 2007: VERHEYEN, W., J.HULSELMANS, T.DIERCKX, L.MULUNGU, E.VERHEYEN, M.CORTI, J.PETERHANS KERBIS & H.LEIRS. Craniometric, cytogenetic and genetic characterization of the Kilimanjaro *Lophuromys aquilus* True 1892 population, its implications for the taxonomy of the *L. flavopunctatus* species complex and the description of five new taxa (Rodentia: Muridae).
175. poster at the 10th African Small Mammal Symposium, Abomey-Calavi, Benin, 20-25 August 2007: VERHEYEN, W., J.HULSELMANS, W.WENDELEN, H.LEIRS, M.CORTI & E.VERHEYEN. Contribution to the systematics and zoogeography of the east-african *Acomys spinosissimus* Peters 1852 species complex and the description of two new species (Rodentia: Muridae).
176. poster at the Symposium on the Ecology of Plague and its Effects on Wildlife, Fort Collins, CO, USA, 4-6 November 2008: LAUDISOIT, A., S.NEERINCKX, R.MAKUNDI, H.LEIRS & B.KRASNOV. Plague in Tanzania: from a host and vector perspective. Are local plague incidence and ecological characteristics of vectors and reservoirs related? A case study in north-east Tanzania.
177. poster at the Symposium on the Ecology of Plague and its Effects on Wildlife, Fort Collins, CO, USA, 4-6 November 2008: NEERINCKX, S., A.LAUDISOIT, J.DECKERS, H.GULINCK, D.KIMARO & H.LEIRS. Plague in Tanzania: a landscape ecological approach. Do landscape ecological factors influence the spread of plague in Lushoto? A case study in northeastern Tanzania.
178. poster at the 4th International Conference on Rodent Biology and Management (ICRBM), Bloemfontein, South Africa, 10-17 April 2010: KENNIS, J., V.NICOLAS, J.HULSELMANS, W.WENDELEN, P.G.B.KATUALA, H.LEIRS,

- E.VERHEYEN & A.M.DUDU. *Praomys kikwitii* sp. nov., a new species within a taxonomically complex African rodent genus
179. poster at the 4th International Conference on Rodent Biology and Management (ICRBM), Bloemfontein, South Africa, 10-17 April 2010: AMUNDALA, N.D., J.KENNIS, D.AKAIBE & H.LEIRS. Reproduction and residential status of *Praomys* individuals in crop fields in the Kisangani hinterland (Democratic Republic of Congo).
 180. poster at the 4th International Conference on Rodent Biology and Management (ICRBM), Bloemfontein, South Africa, 10-17 April 2010: AMUNDALA, N.D., J.KENNIS, H.LEIRS & A.DUDU. Community structure and seasonal abundance of *Praomys*, *Lophuromys*, *Nannomys* on mixed fields (maize and rice) in the Kisangani hinterland (Democratic Republic of Congo).
 181. poster at the 4th International Conference on Rodent Biology and Management (ICRBM), Bloemfontein, South Africa, 10-17 April 2010: MULUNGU, L., A.W.MASSAWE, J.KENNIS, D.CRAUWELS, R.H.MAKUNDI, H.LEIRS & S.R.BELMAIN. Food Categories in Diets of Multimammate rat (*Mastomys natalensis*, Smith 1834) in Different Habitats in Central Tanzania
 182. poster at the 4th International Conference on Rodent Biology and Management (ICRBM), Bloemfontein, South Africa, 10-17 April 2010: SABUNI, C.A., A.BEDETTI, H.LEIRS, R.H.MAKUNDI & S.L.S.MAGANGA. Preliminary information on the home range of the lesser pouched rat (*Beamys hindei*) in Zaraninge Forest, Saadani National Park, Tanzania
 183. poster at the 4th International Conference on Rodent Biology and Management (ICRBM), Bloemfontein, South Africa, 10-17 April 2010: MEHERETU Y., K.WELEGERIMA, S.DECKERS, D.RAES, R.H.MAKUNDI & H.LEIRS. Farmers' perspectives of rodent damage and management from the highlands of Tigray, Northern Ethiopia.
 184. poster at the 4th International Conference on Rodent Biology and Management (ICRBM), Bloemfontein, South Africa, 10-17 April 2010: GRYSSELS, S., J.GOÛY DE BELLOCQ & H.LEIRS. Evolutionary biology of arenavirus - rodent interactions.
 185. poster at the International Conference EDEN 2010 on Emerging Vector-borne Diseases in a Changing European Environment, 10-11-12th May 2010 - Le Corum, Montpellier, France: BORREMANS, B., H.LEIRS, N.CHARBONNEL & J.F.COSSON. Separating history from natural selection during the co-evolution of hantaviruses and their rodent hosts in Europe.
 186. poster at the International Conference EDEN 2010 on Emerging Vector-borne Diseases in a Changing European Environment, 10-11-12th May 2010 - Le Corum, Montpellier, France: GOÛY DE BELLOCQ, J., B.BORREMANS, A.KATAKWEBA, R.MAKUNDI, S.J.E.BAIRD, B.BECKER-ZIAJA, S.GÜNTHER & H.LEIRS. Host specificity and genetic diversity of Arenaviruses in Morogoro, Tanzania.
 187. poster at the International Conference EDEN 2010 on Emerging Vector-borne Diseases in a Changing European Environment, 10-11-12th May 2010 - Le Corum, Montpellier, France: NEMIROV, K., H.LEIRS, A.LUNDKVIST & G.OLSSON. Phylogenetic analysis of Puumala hantavirus and its rodent host in northern Europe suggests no co-divergence on intra-species level.
 188. poster at VIII International Conference on HFRS, HPS & Hantaviruses, Athens, Greece, 20-22 May 2010: BORREMANS, B., N.CHARBONNEL, J.F.COSSON & H.LEIRS. Separating neutral evolution from natural selection during Hantavirus radiation.
 189. poster at VIII International Conference on HFRS, HPS & Hantaviruses, Athens, Greece, 20-22 May: TERSAGO, K., R.VERHAGEN & H.LEIRS. Spatio-temporal variation in the risk of Nephropathia Epidemica in Belgium.
 190. poster at the 11th African Small Mammal Symposium, Kwaluseni, Swaziland, 3-8 August 2011: D.AMUNDALA, J.HULSELMAANS, E.VERHEYEN, A.DUDU & H.LEIRS. A new species of *Mus* (Linnaeus, 1758) genus in Kisangani region (Democratic Republic of Congo).
 191. poster at the 11th African Small Mammal Symposium, Kwaluseni, Swaziland, 3-8 August 2011: D.AMUNDALA, A.DUDU & H.LEIRS. Reproduction and residential status of *Lophuromys dudui* (W. Verheyen, Hulselmans, Dierckx and E. Verheyen, 2002) on crop fields and fallow land of Kisangani hinterland (Democratic Republic of Congo).
 192. poster at the 11th African Small Mammal Symposium, Kwaluseni, Swaziland, 3-8 August 2011: B.BORREMANS, J.REIJNIERS, S.GRYSSELS, S.GÜNTHER, A.KATAKWEBA, R.MAKUNDI, C.SABUNI & H.LEIRS. Transmission of Mopeia virus in controlled populations of *Mastomys natalensis*.
 193. poster at the 11th African Small Mammal Symposium, Kwaluseni, Swaziland, 3-8 August 2011: B.BORREMANS, V.SLUYDTS, J.REIJNIERS, A.KATAKWEBA L.MULUNGU, C.SABUNI, R.MAKUNDI & H.LEIRS. Home range size and overlap of *Mastomys natalensis*.
 194. poster at the 11th African Small Mammal Symposium, Kwaluseni, Swaziland, 3-8 August 2011: J.GOÛY DE BELLOCQ, H.LEIRS, J.BRYJA, R.MAKUNDI, MEHERETU MADEBO, H.PATZENHAUEROVÁ, R.ŠUMBERA, D.ČÍŽKOVÁ, V.MAZOCH, J.ZIMA JR, S.GRYSSELS, D.AKAIBE, N.AMUNDALA, J.KENNIS, E.VERHEYEN, A.LAUDISOIT, J.SCHMIDT-CHANASIT, S.GÜNTHER. Biogeography and evolutionary history of hantaviruses and arenaviruses in Africa. Call for participation.

195. poster at the 11th African Small Mammal Symposium, Kwaluseni, Swaziland, 3-8 August 2011: L.S.MULUNGU, A.W.MASSAWE, J.KENNIS, D.CRAUWELS, S.EISEB, T.A.MAHLABA, A.MONADJEM, R.H.MAKUNDI, A.A.S.KATAKWEBA, H.LEIRS & S.R.BELMAIN. Differences in diet between two rodent species of *Mastomys natalensis* and *Gerbilliscus vicinus* in fallowland habitat of central Tanzania.
196. poster at the 11th African Small Mammal Symposium, Kwaluseni, Swaziland, 3-8 August 2011: C.A.SABUNI, H.LEIRS, R.H.MAKUNDI & S.L.S. MAGANGA. Status of Black-and rufous Sengi (*Rhynchocyon petersi*) in Zaraninge Coastal Forest, Tanzania.
197. poster at the workshop "Rodent population ecology, behavior and management in the North and South", Konnevesi, Finland, 21-24 February 2012: B.BORREMANS, H.LEIRS *et al.* Home range size and overlap in *Mastomys natalensis* from Tanzania.
198. poster at the workshop "Rodent population ecology, behavior and management in the North and South", Konnevesi, Finland, 21-24 February 2012: S.HELSEN, H.LEIRS *et al.* Ecological drivers of PUUV variation in heterogeneous environments in Western Europe: the need for an holistic ecological approach.
199. poster at the 5th International Conference on Rodent Biology and Management, Zhengzhou, China, 25-29 August 2014: BORREMANS, B., V. SLUYDTS, R.MAKUNDI & H.LEIRS. Effects of toe clipping on a wild rodent.
200. poster at the 5th International Conference on Rodent Biology and Management, Zhengzhou, China, 25-29 August 2014: B.BORREMANS, R.VOSSEN, B.BECKER-ZIAJA, S.GRYSEELS, N.HUGHES, N.VAN HOUTTE, S.GÜNTHER & H.LEIRS. Shedding dynamics of morogoro virus in its reservoir host *Mastomys natalensis*.
201. poster at the 5th International Conference on Rodent Biology and Management, Zhengzhou, China, 25-29 August 2014: SWINNEN, K.R.R. & H.LEIRS. What can camera traps teach us about a semi-aquatic rodent? Case study of the eurasian beaver (*Castor fiber*) in Belgium.
202. poster at the 5th International Conference on Rodent Biology and Management, Zhengzhou, China, 25-29 August 2014: C.A.SABUNI, B.BORREMANS, L.S.MULUNGU, S.L.S.MAGANGA, R.MAKUNDI & H.LEIRS. Space use, burrowing and diet of the lesser pouched rat (*Beamys hindoi*) in Zaraninge coastal forest, Tanzania.

4.4.2. Other activities

- Chairman of the Colloquium "Ecology and Development - Ecologie et Développement", College for Developing Countries, University of Antwerp (RUCA), 21 March 1991.
- Chairman of a session at the 6th International Colloquium on the Ecology and Taxonomy of Small African Mammals, Mitzpe-Ramon, Israel, 11-16 August 1991.
- Chairman of the Concluding Session at the First Workshop on Economic importance and control of rodents in Tanzania, Morogoro, Tanzania, 6-8 July 1992.
- Chairman of the Colloquium "Threatened mammals in Europe", Brussels, 13 November 1993.
- Chairman of the Organizing Committee for the "International Workshop on Rodent Biology and Integrated Pest Management in Africa", Morogoro, Tanzania, 25-29 October 1996.
- Session Chairperson at the First European Vertebrate Pest Management Conference, 1-3 September 1997, Central Science Laboratory, York, UK.
- Convenor of the symposium "Ecology of disease and parasites in small mammals: victims and models" at the 7th International Theriological congress, 7-11 September 1997, Acapulco, Mexico.
- Convenor of the symposium "Biology and management of rodent pests" at the 7th International Theriological Congress, 7-11 September 1997, Acapulco, Mexico.
- Member of the Organising Committee for the International Conference on Rodent Biology and Management, 5-9 October 1998, Beijing, China.
- Convenor of the symposium "Ecologically based management" at the International Conference on Rodent Biology and Management, 5-9 October 1998, Beijing, China.
- Chairman of the Closing Ceremony at the International Conference on Rodent Biology and Management, 5-9 October 1998, Beijing, China.
- Member of the Organizing committee and Afternoon Chairperson for the "Mini-Symposium in honour of Walter Verheyen", 26 November 1998, Antwerp, Belgium
- Convenor of the symposium "Applied ecology and small mammal management" at the 3th European Congress of Mammalogy, 29 May - 3 June 1999, Jyväskylä, Finland.
- Member of the Scientific Committee of the International Symposium on African Small Mammals, 4-9 July 1999, Paris, France.
- Convenor of the session "African small mammals as pests" at the International Symposium on African Small Mammals, 4-9 July 1999, Paris, France.
- Chairman of a session "Ecology" at the International Symposium on African Small Mammals, 4-9 July 1999, Paris, France.
- Convenor of the symposium "Anticoagulant Rodenticide Resistance" at the 2nd European Vertebrate Pest Management Conference, 6-8 September, Braunschweig, Germany.

- Since 1999, member of the permanent Steering Committee for the European Vertebrate Pest Management Conferences.
- Convenor of the symposium "Small rodent population dynamics in the tropics" at the 8th International Theriological Congress, 12-17 August 2001, Sun City, South Africa.
- Session Chairman at the 3rd European Vertebrate Pest Management Conference, 9-14 September 2001, Ma'ale Hachamisha, Israel.
- Member of the Scientific Committee for the 8th International Conference "Rodens & Spatium", 22-26 July 2002, Louvain-la-Neuve, Belgium.
- Chairperson for the session on "Rodent management" at the 8th International Conference "Rodens & Spatium", 22-26 July 2002, Louvain-la-Neuve, Belgium.
- Member of the Scientific Committee for the 2nd International Conference on Rodent Biology and Management, 10-14 February 2003, Canberra, Australia
- Chairperson for the session on "Diseases" at the 2nd International Conference on Rodent Biology and Management, 10-14 February 2003, Canberra, Australia
- Chairman of the Organising and Scientific Committees of the 9th African Small Mammal Symposium, 14-18 July 2003, Morogoro, Tanzania
- Member of the Organising Committee, and session chairman, for the International Meeting "Plague: bacteriology, evolution, ecology, epidemiology and its impact on human history". Oslo, Norway, 9-13 November 2005.
- Member of the Organising Committee for the 3rd International Conference on Rodent Biology and Management, 28 August - 1 September 2006, Hanoi, Vietnam
- Co-chairman of the Organising Committee and Chairman of the Scientific Committee of the 10th African Small Mammal Symposium, Abomey-Calavi, Benin, 20-25 August 2007.
- Member of the Scientific Committee and session convener at the 6th European Vertebrate Pest Management Conference, 11-15 September 2007, Reading, UK
- Member of the Organising Committee for the 4th International Conference on Rodent Biology and Management (ICRBM), Bloemfontein, South Africa, 10-17 April 2010
- Chairman of the Scientific Committee and member of the Local Organising Committee of the 11th African Small Mammal Symposium, Kwaluseni, Swaziland, 3-8 July 2011.
- Member of the Scientific Committee and Session Chairmen for the 5th International Conference on Rodent Biology and Management (ICRBM), Zhengzhou, China, 25-29 August 2014

4.4.3. Co-authorships at other meetings (without own participation)

1. poster at the International Symposium on Haemostatic Impairment associated with Haemorrhagic Fever Viruses. Washington, USA, 26 May - 27 May 1987: VAN DER GROEN G., D.GOYVAERTS, G.HOOFD, XING, S.GAN, H.LEIRS, R.VERHAGEN & K.YAMANISHI. Study of the antigenic relationship of Hantaviruses by the use of monoclonal antibodies.
2. poster at the Xth International Congress of Nephrology, London, UK, 26-31 July 1987: CLEMENT,J., R.VERHAGEN, H.LEIRS, G.VAN DER GROEN. Epidemiological, biological and clinical data of Hantavirus Disease (HVD) in Belgium.
3. poster at the Workshop Mechanisms in Nephritis, Cambridge, UK, 1 August - 2 August 1987 (Satellite Meeting of the Xth International Congress of Nephrology, London, UK, 27 July - 31 July 1987): CLEMENT J., A.LEFEVRE, R.VERHAGEN, H.LEIRS, TH.DEGREZ & G.VAN DER GROEN. Acute Hantavirus Nephropathy, a "new" form of interstitial nephritis.
4. poster at the Meeting of the Belgische Vereniging voor Inwendige Geneeskunde, Knokke, Belgium, 10 October 1987: CLEMENT J., A.LEFEVRE, R.VERHAGEN, H.LEIRS, TH.DEGREZ & G.VAN DER GROEN. Acute Hantavirus Nephropathy: a "new" disease. (abstract: *Kidney International*, **33**:356)
5. lecture at the 27me Congrès International de Médecine et de Pharmacie Militaires, Interlaken, Switzerland, 4-11 May 1988: CLEMENT,J. A.LEFEVRE, G.VAN DER GROEN, R.VERHAGEN, H.LEIRS. Hantavirus disease: a "new" zoonosis for the military ?
6. lecture at the 1st International Symposium on Hantaviruses and Crimean Congo Hemorrhagic Fever Viruses, Porto Carras, Halkidiki, Greece, 26-30 September 1988: CLEMENT,J. A.LEFEVRE, R.VERHAGEN, H.LEIRS, G.VAN DER GROEN. Epidemiology of Hantavirus (HV) in Belgium.
7. lecture at the International Symposium on Hemorrhagic Fever with Renal Syndrome, Leningrad, USSR, 5-10 May 1991: VERHAGEN R., H.LEIRS, A.LEFÈVRE, J.CLEMENT & G.VAN DER GROEN. Epidemiology of Hantavirus in small mammals in Belgium, the Netherlands and Germany.
8. lecture at the International Symposium on Hemorrhagic Fever with Renal Syndrome, Leningrad, USSR, 5-10 May 1991: CLEMENT J., J.GROEN, G.VAN DER GROEN, A.LEFÈVRE, R.VERHAGEN, H.LEIRS, A.OSTERHAUS, G.HOOFD. Epizootiological aspects of Hantavirus infection in Belgium, the Netherlands and Germany.

9. lecture at the 24th Annual Meeting of the American Society of Nephrology, 17-20 November 1991, Baltimore: CLEMENT J., G.VAN DER GROEN, A.LEFEVRE, R.VERHAGEN, H.LEIRS, J.GROEN, A.OSTERHAUS. Nephropathia epidemica NE in Belgium, the Netherlands and Germany: of mice and men. (abstract: Journal of the American Society of Nephrology, 2(3):645)
10. lecture at the 3rd International Symposium on Arboviruses and Hantaviruses in the Mediterranean Countries, Cortina d'Ampezzo, Italy, 25-29 March 1992: CLEMENT,J., H.LEIRS, V.ARMOUR, D.WARD, J.GROEN, A.OSTERHAUS, CH.KUNZ. Serological evidence for tick-borne encephalitis (TBE) in north American military stationed in Germany.
11. lecture at the Reunion of the Belgian Society for Internal Medicine, 23 May 1992: CLEMENT,J., A.LEFEVRE, H.LEIRS & A.RAMON. A prospective Lyme sero-epidemiological study in Belgium. (abstract: *Acta Clinica Belgica*, **47(4)**:293)
12. poster at the Vth International Conference on Lyme Borreliosis, Arlington, Virginia, USA, 30 May - 2 June 1992: CLEMENT J., H.LEIRS, V.ARMOUR, D.WARD, J.GROEN, A.OSTERHAUS, CH.KUNZ. Exposure to *Borrelia burgdorferi* (Bb) and Tick-Borne Encephalitis (TBE) virus of US troops in South-Germany.
13. lecture at the 2nd International Conference on HFRS, Beijing, China, 26-28 October 1992: CLEMENT,J., H.LEIRS, P.MCKENNA, J.LEDUC, T.TOMIYAMA, H.W.LEE. Diagnosing West-European NE-cases with a simple High Density Particle Agglutination (HDPa) test.
14. lecture at the 3th International Satellite Symposium on Acute Renal Failure (International Society of Nephrology), Halkidiki, Greece, 1993: CLEMENT,J., P.MCKENNA, C.MCCAUGHEY, G.NEILD, S.HINDRICHSEN, H.LEIRS & G.VAN DER GROEN. Icterus and ARF: Leptospirosis or Hantavirus disease ? (*Proceedings of 3th Int. Satel. Symp.ARF*, pp. 474-480)
15. lecture at the First Scientific Meeting of the Belgian Society of Nephrology, Liege, Belgium, 4 December 1993: CLEMENT,J., P.MCKENNA, H.LEIRS, G.VAN DER GROEN. Leptospirosis (LSP) or rat-transmitted hantavirus (HV) nephropathy ? (abstract: *Nephrol.Dial.Transplant.*, 9:723)
16. lecture at the XXXIst Congress of the EDTA European Renal Association, 3-6 July 1994, Vienna, Austria: CLEMENT,J., P.COLSON, PH.DAMOISEAUX, P.MCKENNA, J.COECK, J.NEYTS, H.LEIRS & R.VERHAGEN. Hantavirus (HV) epidemic in the Ardennes. (abstract: *Nephrol.Dial.Transplant.*, **9**: 948.)
17. lecture at the 2nd Benelux Congress of Zoology, 17-18 November 1995, Leiden, The Netherlands: FIRQUET, E. & H.LEIRS. Germinating grasses and reproduction seasonality in *Mastomys* rats.
18. LARSEN, K.S., H.LEIRS & J.LODAL. Palatability and toxicity tests of fipronil as a systemic insecticide in a rodenticide bait for rat and flea control. *Acta Parasitología Portuguesa* 5: 32.
19. poster at the 5th Benelux Congress of Zoology, 6-7 November 1998, Ghent, Belgium: MERCELIS, S., H.LEIRS, & R.VERHAGEN. Spatial components of *Mastomys natalensis* population dynamics.
20. ODHIAMBO, C., OGUGE, N., LEIRS, H. Aspects of population ecology of *Mastomys* in a maize cropping system in Nakuru District, Kenya.. 5th Biennial Conference of the African Crop Science Society, Lagos, Nigeria, October 21-26, 2001.
21. MUTINDA, A., OGUGE, N.O & LEIRS, H. Rodent pests' problems and farmer management practices in Rongai Division, Nakuru District, Kenya.. 5th Biennial Conference of the African Crop Science Society, Lagos, Nigeria, October 21-26, 2001.
22. OLSEN, H., T. D. LISBORG, N. M. SCHMIDT, & H. LEIRS.. Betydning af græsning og høslæt på populationer af småpattedyr. Lecture at conference held March 12, 2002, at Research Centre, Foulum, Tjele, Denmark.
23. LISBORG, T. D., H. OLSEN & H. LEIRS. Effekt af græsning og høslæt på arealanvendelse hos nordmarkmus. Lecture at the Annual Meeting of the Danish Mammal Society, Kalø, Rønde, Denmark, October 25-26, 2002.
24. LODAL, J., KNORR, M. & LEIRS, H. Development of strategies for pest management with focus on rodents. Workshop on organic pig production, Horsens, Denmark. April 24-25 2003.
25. poster at the 4th European Vertebrate Pest Management Conference, 8-12 September 2003, Parma, Italy. MARKUSSEN, M.D.K, A.-C. HEIBERG, R. NIELSEN & H. LEIRS. Vitamin K requirement in Danish anticoagulant-resistant Norway rats (*Rattus norvegicus*).
26. poster at the 4th European Vertebrate Pest Management Conference, 8-12 September 2003, Parma, Italy. HEIBERG, A.-C. & H. LEIRS. Can we use the Blood Clotting Response test to predict future control problems?
27. poster at the 4th European Vertebrate Pest Management Conference, 8-12 September 2003, Parma, Italy. LODAL, J., M. KNORR & H.LEIRS. Mammalian pest problems in organic pig farming, preventive measures and control.
28. SUYKERBUYK P., BAFENDE E., MEIRTE D., LEIRS H., TREFOIS P., BOSSUYT F., PORTAELS F. The potential role of freshwater snails, aquatic insects, fish, rodents, lizards and amphibians as reservoirs for *Mycobacterium ulcerans*. 8th Maastricht Medical Students Research Conference, 17 March 2004, Maastricht, The Netherlands.
29. Poster at the 8th Maastricht Medical Students Research Conference, 17 March 2004, Maastricht, The Netherlands. DURNEZ, L., LEIRS, H., MACHANG'U, R., MGOODE, G., KATAKWEBA, A., EDDYANI, M., PORTAELS, F. Wild rodents' reservoir status for mycobacteria in Tanzania.

30. Lecture at the 5th International Symposium on Tropical Biology, Museum Koenig, Bonn, Germany, "African Biodiversity - Molecules, Organisms, Ecosystems" 2-6 May 2004: VERHEYEN, E., DILLEN, M., COLYN, M., MULUNGU, L., OGUGE, N., LEIRS, H. & VERHEYEN, W. Mitochondrial DNA sequences reveal an unexpected high taxonomic biodiversity in the African thicket rat genus *Grammomys* (Muridae).
31. BEERNAERT, J., SCHEIRS, J., BLUST, R., LEIRS, H. AND VERHAGEN, R. Zware metalen en voedselkeuze bij bosmuizen. Studiedag Ankona 12 februari 2005, provinciehuis Antwerpen.
32. poster at the 9th International Conference of Mammalogy, Hokkaido, Japan. August 2005: MASSAWEI, A.W., W. RWAMUGIRA, H. LEIRS, R. H. MAKUNDI & L.MULUNGU. Soil characteristics may limit population abundance of rodents in crop fields: Case study of *Mastomys natalensis* in Tanzania.
33. lecture at the 13th Benelux Congress of Zoology, Leuven, Belgium, 27-28 October 2006: SLUYDTS V., CRESPIN L., DAVIS S., LEIRS H. & LIMA M. Rodent Outbreaks in Tanzania: Matrix Based Simulation for Testing Different Hypotheses.
34. lecture at the 13th Benelux Congress of Zoology, Leuven, Belgium, 27-28 October 2006: LAUDISOIT A., LEIRS H., MAKUNDI R.H., VAN DONGEN S. & LIBOIS R. Has the human flea *Pulex irritans* any relation with bubonic plague in Lushoto district, Tanzania?
35. lecture at the 13th Benelux Congress of Zoology, Leuven, Belgium, 27-28 October 2006: KENNIS J., LEIRS H. VAN HOOFT W.F. & MORRISSEY M. Mating system of the multimammate mouse (*Mastomys natalensis*).
36. poster at the 13th Benelux Congress of Zoology, Leuven, Belgium, 27-28 October 2006: VERHEYEN, E., J.HULSELMAANS, T.DILLEN, H.LEIRS & WALTER VERHEYEN. DNA barcodes for African Muridae: A protocol that allows the unequivocal translation of sequences into species names.
37. poster at the 13th Benelux Congress of Zoology, Leuven, Belgium, 27-28 October 2006: VERHEYEN, E. W.DE COEN, H.LEIRS & P.VAN HUMMELEN. Gene-expression profiles across mouse species using a cDNA micro-array : a pilot study using *Mus musculus* and *Nannomys mattheyi*.
38. poster at the 13th Benelux Congress of Zoology, Leuven, Belgium, 27-28 October 2006: LAVRENCHENKO L., VERHEYEN E., VERHEYEN W. & LEIRS H. Molecular study suggests the Ethiopian Plateau to be a cradle for *L. flavopunctatus* species complex.
39. poster at the 13th Benelux Congress of Zoology, Leuven, Belgium, 27-28 October 2006: SLUYDTS V., NGOWO V., MSHUZA E., MULUNGU L.S., SABUNI C., MAKUNDI R. & LEIRS H. Bio-Economic modelling in practice: a field experiment and a Farmer Participatory Research.
40. European Society of Mycobacteriology, July 2007: DURNEZ, L., M.EDDYANI, G.F.MGODE, A.KATAKWEBA, C.R.KATHOLI, R.MACHANG'U, RR.KAZWALA, F.PORTAELS, H.LEIRS. First findings of mycobacteria in African rodents and insectivores using stratified pool screening

4.5. Contributions in newsletters, non-refereed contributions to other journals

1. VAN DER GROEN G., G.BEELAERT, G.HOOFD, R.VERHAGEN, H.LEIRS, E.TKACHENKO & A.IVANOV. 1985. Prevalence of Hantavirus antibodies in serum and Hantaviral antigens in the lungs of wild life Rodentia, Insectivora and Carnivora captured in Belgium. *Arthropod Borne Virus Information Exchange*, **June**: 134.
2. CLEMENT, J., A.LEFEVRE, R.VERHAGEN, H.LEIRS, G.VAN DER GROEN. 1988. Hantavirus Nephropathy in Belgium. *Nephrol.Dial.Transplant.*, **3**:534.
3. VAN DER GROEN, G., D.GOYVAERTS, G.HOOFD, XING, S.GANG, H.LEIRS, R.VERHAGEN & K.YAMANISHI. 1989. Study of the antigenic relationship of Hantaviruses using monoclonal antibodies. *JE & HFRS Bulletin*, **3**:61-64.
4. CLEMENT, J., G.VAN DER GROEN, A.LEFEVRE, R.VERHAGEN, H.LEIRS, J.GROEN, A.OSTERHAUS. Nephropathia epidemica (NE) in Belgium, the Netherlands and Germany: of mice and men. *Journal of the American Society of Nephrology*, **2**:645.
5. CLEMENT, J., H.LEIRS, V.ARMOUR, D.WARD, J.GROEN, A.OSTERHAUS & C.KUNZ. 1991. Serologic evidence for Tick-Borne Encephalitis (TBE) in north-american military stationed in Germany. *Arthropod Borne Virus Information Exchange*, **December**, 68-69.
6. CLEMENT, J., A.LEFEVRE, J.GROEN, A.OSTERHAUS, R.VERHAGEN, H.LEIRS & G.VAN DER GROEN. 1991. Epizootiological aspects of Hantavirus infection in Belgium, the Netherlands and Germany: of mice and men. *Arthropod Borne Virus Information Exchange*, **December**, 80.
7. CLEMENT, J., A.LEFEVRE, G.VAN DER GROEN, R.VERHAGEN, H.LEIRS, J.JORDANS, P.UNDERWOOD & J.GROEN. 1992. Epizootiological aspects of nephropathia epidemica (NE) in Belgium, the Netherlands and Germany. *Nephrol.Dial.Transplant.*, **7**:970-971.
8. CLEMENT J., H.LEIRS, V.ARMOUR, D.WARD, J.GROEN, A.OSTERHAUS & CH.KUNZ. 1992. Exposure to *Borrelia burgdorferi* and tick-borne encephalitis virus of US troops in South Germany. *Arthropod Borne Virus Information Exchange*, **June**, 58.
9. LEIRS, H. (1996). Boekbespreking: G.B.Hartl & J.Markowski (eds.), 1993, Ecological Genetics in mammals. *Acta Theriologica. Lutra*, 39:53-54.

10. CLEMENT, J., P. MCKENNA, H. LEIRS & G. VAN DER GROEN. 1994. Leptospirose (LSP) ou néphropathie à Hantavirus (NHV). *Néphrologie*, **15(3)**:224.
11. LEIRS, H. & S. MERCELIS. 1996. Rodents - pests in agroforestry ? *Agroforestry Today*, **January- March**: 21.
12. MERCELIS, S. & H. LEIRS. 1999. The recolonisation of "depopulated" maize fields by rodents; implications for rodent control in Tanzania. *War against rats*, **8**:11.
13. SCHMIDT, N.M., H. OLSEN, T.D. LISBORG, M. BILDSØE & H. LEIRS. 2003. Betydninger af græsningstryk og høslæt for små pattedyr på ferske enge. in: HALD, A.B., C. CHR. HOFFMANN & L. NIELSEN (eds.) Ekstensiv græsning af ferske enge: botanisk diversitet, små pattedyr, miljø og produktion. DJF rapport Markbrug nr. 91, 157-181.
14. LEIRS, H. 2003. Conservation advices based on rodent pest biology: the case of the hamster. in: Mercelis, S., A. Kayser & G. Verbeylen (eds.) The hamster (*Cricetus cricetus* L. 1758): ecology, policy and management of the hamster and its biotope. *Naturhistorische reeks 2003/2*, Natuurpunt, Mechelen. pp. 82-84.
15. LODAL, J., M. KNORR & H. LEIRS. 2003. Non-poisonous means for reducing rodent pest problems in organic pig farming. Newsletter from the Danish Research Centre for Organic Farming, December 2003, no. 4.
16. SABUNI, C.A., A. BEDETTI & H. LEIRS. 2011. Can giant sengis (genus *Rhynchocyon*) be captured with baited traps? *Afrotherian Conservation*, **8**:9-12.

4.6. Popular literature

1. LEIRS H. 1991. De Rattenkoning. in: ERVYNCK A., V. MEYLANDER & R. VAN DE WALLE (eds.). Ratman, een verhaal van mensen en ratten. Gent, 1991. p.23-27.

4.7. Reports with limited distribution

1. BEYENS L. (ed.), P. BAERT, L. BERVOETS, H. LEIRS, P. MARQUET, S. MASURE & D. RENDERS. 1984. South Tirol 1983 - report of a biological study-tour. (in dutch). RUCA, Laboratory of General Botany, Antwerpen. 41 pp.
2. FERGUSON D.K. & H. LEIRS (eds.) 1988. Report of biological field trips to S.W. Ireland - 1982, 1986, 1988. (in dutch). Rijksuniversitair Centrum, Antwerpen. 327 pp.
3. LEIRS, H. & K. PEETERS. 1994. Municipal Nature Development Plan Denderleeuw. (in dutch). Municipality of Denderleeuw, East Flanders, Belgium. 84 pp.
4. DICKMAN, C.R., H.E.L. LEIRS & I. MANWAN. 1997. Management of rodent pests in southeast Asia and Management of rodent pests in Vietnam. ACIAR Project Review, Canberra. 43 pp.
5. CARLSEN, M., J. LODAL & H. LEIRS. 1998. Efficacy and palatability laboratory tests with bromadiolone wax blocks (...). Confidential Report Danish Pest Infestation Laboratory, Lyngby. 13 pp.
6. LEIRS, H. & J. LODAL. 1998. Efficacy and palatability laboratory tests with a difenacoum paste for rat control (...). Confidential Report Danish Pest Infestation Laboratory, Lyngby. 9 pp.
7. LARSEN, K.S., H. LEIRS & J. LODAL. 1998. Palatability and toxicity tests of fipronil as a systemic insecticide in a rodenticide bait for rat and flea control. Confidential Report Danish Pest Infestation Laboratory, Lyngby. 37 pp.
8. LEIRS, H. 1999. Rodent Control in Cyprus. Assignment report of a short-term consultancy to the Ministry of Health, Nicosia. WHO-EMRO, Alexandria. 19 pp.
9. LEIRS, H. 2000. Ricefield rat problems and research in South-East Asia. Report of a consultancy to Laos and Vietnam. DANIDA, Copenhagen. 6 pp.
10. LEIRS, H. 2001. Rodent Control in Tajikistan. Assignment report of a short-term consultancy to the World Health Organisation (EURO), Copenhagen. 20 pp.
11. LEIRS, H. 2001. A population dynamics model for rodent management in Africa. Unpublished report Danish Pest Infestation Laboratory, Kongens Lyngby. 38 pp + annexes.
12. LODAL, J., M. KNORR & H. LEIRS. Strategier til giftfri bekæmpelse af rotter og mus. in: Sørensen, J.T. (Ed.) Produktionsstyring med fokus på husdyrsundhed og fødevarerikkerhed i økologiske svinebesætninger. Intern Rapport nr. 54, Forskningscenter for Økologisk Jordbrug, Denmark, 27-34.
13. LEIRS, H. & S. VIBE-PETERSEN (eds.) 2003. STAPLERAT. Protecting staple crops in eastern Africa: integrated approaches for ecologically based field rodent pest management. Unpublished final report to the European Commission for project contract ICA4-CT-2000-30029, 95 pp.

4.8. Software

- LEIRS H. & L. DE BRUYN, 1990. **MAINBIB** - Maintenance of bibliographies. A personal computer program for organisation, maintenance and retrieval of personal scientific reference libraries. Commercially available from the University of Antwerp (RUCA), Belgium, until 1996.

4.9. Participation in meetings without formal contribution

- "Boerhaave" course on "Import diseases", 24-25 October 1991, University of Leiden, Leiden, the Netherlands.
- Workshop "Musk Rat Studies", 9-10 December 1991, Ede, the Netherlands.
- European Research Network for Control of Viral Hemorrhagic Fevers, 9-11 September 1999, Fondation Mérieux, Lyon, France.
- Novartis Foundation/Royal Society Discussion Meeting: Wildlife population growth rates: current analyses and future options. 8 February 2002, London.

4.10. Scientific prize, honorary title, etc.

- Schouteden-prize 1993 for studies on African zoology from the Royal Academy for Sciences, Arts and Literature, Brussels, Belgium.
- Adjungeret Professor, Royal Veterinary and Agricultural University, Copenhagen (Frederiksberg), Denmark (2002-2007)
- promotor for the University of Antwerp honorary doctorate in Sciences to Prof. Richard Dawkins, FRS. 29 April 2009.
- Member of the Koninklijke Academie voor Overzeese Wetenschappen, Klasse voor Natuur- en Geneeskundige Wetenschappen (Royal Academy of Overseas Sciences), Brussels (appointed Associated Member by Ministerial Decree 14 June 2011, Ordinary Member by Royal Decree 12 November 2017)
- "Lifetime Recognition of Excellence" awarded at the 6th International Conference of Rodent Biology and Management and 16th Rodens et Spatium, in Potsdam, Germany, 3-7 September 2018.

5. EDUCATIONAL ACTIVITIES

- professor at the Dept. of Biology, University of Antwerp (Belgium); teaching duties include:
 - Zoology (1st yr Veterinary and Biomedical students): since 1999
 - Parasitology (2nd yr Biomedical students): 2001
 - Ecology and control of tropical diseases (Master of Tropical Biomedical Sciences): since 2002-
 - Vertebrate Biology (2nd yr Biology students): 2003-2005
 - Animal Diversity (2nd yr Biology students): 2005-2009
 - Mammalogy (Master of Biology): since 2003
 - Applied Ecology (4th yr Bio-Engineering students): 2005-2007
 - Tropical Field Class Tanzania (2nd-3rd yr Biology students): since 2006
 - World view, Module C "World view and Natural Sciences" (all Bachelors): 2008-2013
 - Parasitology (3rd yr Biology students): since 2008
 - Ecology of Populations and Communities (Master Biology): since 2008
 - Species Conservation and Management (Master Biology): since 2008
 - Ecology of Infections (Master Biology): since 2009
- guest lectures in other courses:
 - Applied Population Ecology, 3 hours (UA, Dept. Biology, Prof.Dr.E.Matthysen): since -2007
 - Tropical Medicine for Physicians, 2 hours (Institute of Tropical Medicine, Antwerp, Dr.E.Van den Ende): 2001
 - Wildlife Biology, 6 hours (Royal Veterinary and Agricultural University, Frederiksberg, Copenhagen): since 2004
 - Importance des rongeurs en entomologie médicale, 3h lecture in the course "Arthropodes vecteurs et sante humaine", Institut Pasteur, Paris, France: 2008, 2011
- organiser of a NorFA (Nordisk Forskerutdanningsakademi) researcher course "Rodent population dynamics: pest control and environmental monitoring", 7-13 February 1999, Tune Landboskole, Denmark, with 27 PhD-students and 12 teachers from 14 countries.
- organiser of the annual 3-day Summer course on "Ecology and Evolution of Parasites and Infections", University of Antwerp, September, 2012-2016 (aimed at PhD-students and young post-docs)
- (co-)supervisor for Ph.D.-students:
finalised:
 1. VIBE-PETERSEN,S. (1997-2003) Predation pressure and population dynamics in the African rodent *Mastomys natalensis*. Royal Veterinary and Agricultural University, Copenhagen, Denmark.

2. HEIBERG, A.C. (1998-2002). Population effects of anticoagulant rodenticide resistance in Norway rats. University of Copenhagen, Denmark.
3. MASSAWE, A.W. (1999-2003). Effects of cropping regimes and land management techniques on populations of pest rodents in Tanzania. Sokoine University of Agriculture, Morogoro, Tanzania.
4. MULUNGU, L.S. (1999-2003). Prediction of damage and yield loss due to *Mastomys natalensis* (Smith, 1834) in maize fields. Sokoine University of Agriculture, Morogoro, Tanzania.
5. EDDYANI, M. (2002-2009). Study of the environmental reservoir of *Mycobacterium ulcerans*. Institute of Tropical Medicine and University of Antwerp, Belgium.
6. SLUYDTS, V. (2004-2009). A bio-economical model for rodent control in Africa: A regional solution for a local problem? Demography and population dynamics under different rainfall conditions of *Mastomys* mice in Eastern Africa. University of Antwerp, Belgium.
7. KATUALA, P. (2005-2009) Biodiversité et Biogéographie de quelques rongeurs (Rodentia: Mammalia) de certains blocs forestiers de la Région de Kisangani (RD Congo). Université de Kisangani, R.D.Congo.
8. LAUDISOIT, A. (2005-2009). Contribution to plague epidemiology in Lushoto district (Tanzania): phenology of host-ectoparasites couples implied in the transmission of plague (*Yersinia pestis*); factors and mechanisms which ensure the maintenance of the bacillus in the sylvatic focus of Lushoto district. University of Antwerp + Université de Liège, Belgium.
9. TERSAGO, K. (2003-2010). Spatial and temporal variation of Puumala hantavirus infection in Belgium: an eco-epidemiologic study. University of Antwerp, Belgium.
10. NEERINCKX, S. (2006-2010). Insights in the ecology of plague using spatial and ecological models at distinct scales and resolutions. University of Antwerp, Belgium + Katholieke Universiteit Leuven, Belgium.
11. DURNEZ, L. (2004-2010). The role of rodents and insectivores in the epidemiology of mycobacterial infections in Africa. University of Antwerp, Belgium.
12. MOERKENS, R. (2006-2011). A study on the population dynamics of earwigs: why do population sizes vary? University of Antwerp, Belgium.
13. MEHERETU, Y.M. (2008-2012). Ecology of Rodents in Agroecosystems in Northern Ethiopia: Pest and Public Health. University of Antwerp, Belgium.
14. KENNIS, J. (2005-2012). Study of tropical rainforest rodents: biodiversity and adaptation ability to changing habitats around Kisangani, D.R.Congo. University of Antwerp, Belgium.
15. BRENO, M. (2007-2013). The role of development homeostasis on the evolutionary potential of a complex of characteristics: the skull of the multimammate mouse (*Mastomys natalensis*) as a model system. University of Antwerp, Belgium.
16. AMUNDALA N. (2008-2013). Population ecology of rodents from a pest management perspective in the Kisangani region (D.R.Congo). Université de Kisangani, Democratic Republic of Congo.
17. YIRGA, G. (2011-2013). The ecology and conservation of spotted hyenas (*Crocuta crocuta*) in a human dominated landscape in northern Ethiopia. University of Antwerp, Belgium and Leiden University, the Netherlands.
18. MUKINZI, J.C. (2008-2014). Diversity and Structure of Shrew community (Soricidae, Mammalia) in tropical lowland forest of Democratic Republic of Congo. Université de Kisangani, R.D.Congo.
19. GRYSEELS, S. (2009-2015). Evolutionary relationships between arenaviruses and their rodent hosts. University of Antwerp, Belgium.
20. BORREMANS, B. (2009-2015). The role of history, co-evolution and divergent selection for the diversity and distribution of Hantaviruses and their rodent hosts in Europe. University of Antwerp, Belgium.
21. SWINNEN, K. (2010-2015). The return of the European beaver (*Castor fiber*) in Belgium as an invasive species: ecology and risk assessment. University of Antwerp, Belgium.
22. SHIBRU, S. (2012-2016). Ecological interactions of terrestrial biodiversity and ecosystems dynamics in Nechisar National Park, Southern Ethiopia. University of Antwerp, Belgium.
23. SABUNI, C. (2010-2016). Population ecology of *Rhynchocyon petersi* and *Beamys hindei* in selected coastal forest patches of Saadani National Park, Tanzania. Sokoine University of Agriculture, Morogoro, Tanzania.
24. VANDELANNOOTTE, K. (2012-2016). Unveiling the evolutionary history & molecular epidemiology of *Mycobacterium ulcerans*. University of Antwerp, Belgium.
25. MEURIS, W. (2011-2017). Exhibition types. PhD in the Arts, University of Antwerp, Belgium.

ongoing:

26. VANDEMAELE, S. (2008-). Inschatting van de teruggooi van commerciële vissoorten in de Belgische boomkorvisserij, in het licht van het Europees Gemeenschappelijk Visserijbeleid. University of Antwerp, Belgium.
27. VAN DE PERRE, F. (2012-). Biodiversity and carbon sequestration in Central African rainforests. University of Antwerp, Belgium.

28. RUTTEN, A. (2014-). Modelleren van het schaderisico voor de landbouw in Vlaanderen ten gevolge van de aanwezigheid van het everzwijn (*Sus scrofa*). University of Antwerp, Belgium.
29. BRENNARD, N. (2014-). De fluweelmijt *Allothrombium molliculum* als natuurlijke vijand van perenbladvlo (*Cacopsylla pyri*): fenologisch populatiemodel en integratie in boomgaardbeheer. University of Antwerp, Belgium.
30. MARIËN, J. (2014-). Transmission dynamics of parasites arenaviruses in wildlife populations of *Mastomys natalensis*. University of Antwerp, Belgium.
31. VANDEN BROECKE, B. (2016-)The link between animal personality and infection risk in natural populations of *Mastomys natalensis* infected with Morogoro arenavirus. University of Antwerp, Belgium.
32. LAMICHHANE, B.R. (2015-). Spatio-temporal dimensions of human-carnivore interactions in Chitwan National Park, Nepal. University of Antwerp, Belgium, and Leiden University, The Netherlands.
33. PAREYN, M. (2016-) Distribution and ecology of cutaneous leishmania (CL) in southern Ethiopia: a basis for disease management. University of Antwerp, Belgium.
34. ZEWDNEH TOMASS (2017-). Investigating anthropogenic or climate change induced wetland to drylands changes and its effects on rodent populations as pests in agriculture and carriers of infections. Arba Minch University, Ethiopia.
35. Cuypers, L (2017-). *Mastomys natalensis* hybrid zones as natural laboratories to investigate the limits of arenavirus spread. University of Antwerp, Belgium.

discontinued:

- MERCELIS, S. (1997-2000) Population dynamics of *Mastomys natalensis* in different habitats: an experimental and modelling study. University of Antwerp, Belgium.
- BEERNAERT, J. (2002- 2006). Effecten van zware metalen-verontreiniging op het fouragegedrag van de bosmuis. University of Antwerp, Belgium.
- OJWANG, D. (2002-). Impact of barn owl predation on population densities of multimammate rat (*Mastomys erythroleucus*) in maize fields in Kenya. Kenyatta University, Nairobi, Kenya.
- MEULEPAS, G. (2006-2007). De rol van ontwikkelingshomeostasis op het evolutionair potentieel van een complex kenmerk: de schedel van de veeltelpelmuis (*Mastomys natalensis*) als modelsysteem. University of Antwerp, Belgium.
- HELSEN, S. (2011-2013). PUUV variation in heterogeneous environments in western Europe: ecological drivers and epidemiological outcomes. University of Antwerp, Belgium.
- BRYSSINCKX, W. (2009- 2016). Cost efficient modelling of denominator data for spatial epidemiological studies in extensive livestock systems (TELDIEBEESTE). Avia-GIS, Zoersel, and University of Antwerp, Belgium.

- (co-)supervisor for M.Sc.-students:

1. HEYRMAN, C. 1991. Vergelijkend onderzoek van enkele populaties van *Mastomys natalensis* (Rodentia, Muridae) in Tanzania. Department of Biology, University of Antwerp, Belgium.
2. NYSSEN, D. 1994. Karyologische en biochemische studie van sibling soorten van *Mastomys* (Rodentia, Muridae). Department of Biology, University of Antwerp, Belgium.
3. FIRQUET, E. 1995. De rol van kiemend gras in de voortplantingsseizoenaliteit van *Mastomys natalensis*. Department of Biology, University of Antwerp, Belgium.
4. MERCELIS, S. 1996. Onderzoek naar de effecten van agroforestry-technieken op de biotoopkwaliteit van landbouwterreinen voor knaagdieren. Department of Biology, University of Antwerp, Belgium.
5. DE SCHRYVER, E. 1996. Vestigingssukses van immigranten in een populatie bosmuizen, *Apodemus sylvaticus* (Rodentia, Muridae). Department of Biology, University of Antwerp, Belgium.
6. VAN GULCK, T. 1997. Predatiedruk en populatiedynamiek bij *Mastomys natalensis* (Rodentia, Muridae) in Tanzania. Department of Biology, University of Antwerp, Belgium.
7. SIERA, I. 1997. Dispersiedynamiek in een schiereiland-populatie van bosmuizen, *Apodemus sylvaticus* (Rodentia, Muridae). Department of Biology, University of Antwerp, Belgium.
8. VERMEULEN, K. 1998. Populatie-genetisch onderzoek naar dispersie in populaties bosmuizen (*Apodemus sylvaticus*). Department of Biology, University of Antwerp, Belgium.
9. BOLBROE, T. 1999. Behavioural response of field voles under mustelid predation risk in the laboratory. University of Copenhagen, Denmark.
10. MOHR, K. 2001. Feeding decisions as an anti-predation strategy in the African multimammate rat. University of Copenhagen, Denmark.
11. MARTIN-LEGÈNE, H. 2001. Genetic population structure in Danish *Rattus norvegicus*. University of Copenhagen, Denmark.
12. MARKUSSEN, M. 2002. Vitamin K-requirement in Danish anticoagulant-resistant Norway rats. University of Copenhagen, Denmark.

13. PETERSEN, H.H. 2002. Predation risk assessment in the African multimammate mouse *Mastomys natalensis*. University of Copenhagen, Denmark.
14. MINTEN, J. 2002. Recolonisation of fields by multimammate mice after successful rodent control actions. Department of Biology, University of Antwerp, Belgium.
15. SLUYDTS, V. 2002. Comparison of population dynamics and demography of *Mastomys natalensis* in mosaic and monoculture fields. Department of Biology, University of Antwerp, Belgium.
16. EDDYANI, M. 2002. Vergelijking van verschillende methoden voor de detectie van *M. ulcerans* in klinische stalen en in de omgeving in het Ga district van Ghana. Department of Biomedical Sciences, University of Antwerp, Belgium.
17. BREVIG, T. 2003. Simulation of rodent control operations with a population dynamics model for *Mastomys natalensis* rats. University of Oslo, Norway.
18. LISBORG, T. 2003. Habitat use of small mammals in grazed meadows. Odense University, Denmark.
19. ODHIAMBO, C. 2003. Population dynamics and habitat use by murid rodents in a maize cropping system in Rongai Division, Nakuru District, Kenya. Kenyatta University, Nairobi, Kenya.
20. MUTINDA, A. 2003. Socio-economic analysis of perceived rodent damage problems in Rongai Division, Nakuru District, Kenya. Kenyatta University, Nairobi, Kenya.
21. PAEMELAERE, E. 2003. De knaagdierfauna op de grens tussen platteland en verstedelijkt gebied in Morogoro, Tanzania: ruimtelijke organisatie. Department of Biology, University of Antwerp, Belgium.
22. WILLEKENS, N. 2003. Beweging en reservoirstatus van commensale knaagdieren in een stedelijke omgeving in Tanzania. Department of Biology, University of Antwerp, Belgium.
23. SLUYDTS, V. 2003. Bivariate time series analysis on monthly capture-mark-recapture data of *Mastomys natalensis*. Katholieke Universiteit Leuven, Belgium.
24. DURNEZ, L. 2004. Wild rodents' reservoir status for mycobacteria in Tanzania. Department of Biomedical Sciences, University of Antwerp, Belgium.
25. VAN AUDENHOVE, V. 2004. The population dynamics model for the African multimammate mouse *Mastomys natalensis* (Smith, 1834) in Tanzania: extension and verification for other regions. Department of Biology, University of Antwerp, Belgium.
26. HOOGSTOEL, A. 2004. Phylogenetic aspects of the African striped grass mice genus *Lemniscomys*. Department of Biology, University of Antwerp, Belgium.
27. VAN ACHTEREN, W. 2004. Development of a molecular data bank for the identification of African rodents. Department of Biomedical Sciences, University of Antwerp, Belgium.
28. KATUALA GATATE-BANDA, P. 2005. Contribution à l'écologie des Rongeurs et des Soricomorphes de la Réserve de faune à Okapi (RFO) (Ituri, R.D.Congo). Diplôme d'Etudes Supérieures (D.E.S.), Université de Kisangani, R.D.Congo.
29. KENNIS, J. 2005. The mating system of the African multimammate mouse *Mastomys natalensis* (Smith, 1834). Department of Biology, University of Antwerp, Belgium.
30. SCHREURS, A. 2005. Puumala Hantavirus infection in bank voles in Flanders. Department of Biology, University of Antwerp, Belgium.
31. SKADBORG, I.M. 2006. Rat movements in an outdoor pig farm. Royal Veterinary and Agricultural university, Frederiksberg, Denmark.
32. NEERINGCKX, S. 2006. Ecological factors influencing the spread of plague disease, Lushoto, Tanzania. Katholieke Universiteit Leuven, Belgium.
33. D'AES, M. 2006. Impact of stone bunds and walls on rodent populations and rodent damage in the Northern Ethiopian Highlands. Department of Biology, University of Antwerp, Belgium.
34. MOERKENS, R. 2006. Temporal variation in demographic patterns in a population of multimammate mice (*Mastomys natalensis*) in Tanzania. Department of Biology, University of Antwerp, Belgium.
35. BOEYKENS, N. (2007) Onderzoek naar de rol van knaagdieren en insectivoren bij de verspreiding van bovine tuberculose in en rond Morogoro, Tanzania. University of Antwerp, Belgium.
36. VANDORPE, S. (2007) Bestrijding van Woelratten in fruitboomgaarden. University of Antwerp, Belgium. Department of Biology, University of Antwerp, Belgium.
37. JACQMAIN, F. (2007). Department of Biology, University of Antwerp, Belgium.
38. DE RAEDT, N. (2008) Morfologie van de proventriculus en zuigende monddelen van verschillende vlooiensoorten in Lushoto, Tanzania. Aanwijzingen voor vectoriële capaciteit bij de overdracht van builenpest? Department of Biology, University of Antwerp, Belgium.
39. BORREMANS, B. (2009) Ruimtelijke patronen in het voorkomen van Mopeia virus in contrasterende habitats. Department of Biology, University of Antwerp, Belgium.
40. DEMEULEMEESTER, J. (expected 2009) Knaagdiervlooiën en het landschap: invloed van de buiten-gastheer omgeving op de ectoparasiet fauna en de verspreiding van pest. Department of Biology, University of Antwerp, Belgium.
41. VANDELANNOOTE, K. (2009) Comparison of fingerprinting profiles of environmental extracts and human isolates for strain discrimination of *Mycobacterium ulcerans*. Department of Biology, University of Antwerp, Belgium.

42. GRYSEELS, S. (2009) Free living amoebae as a "training ground" for *Mycobacterium ulcerans*. Department of Biology, University of Antwerp, Belgium.
43. GEELHAND DE MERXEM, D. (2009) Diversiteit van kleine zoogdieren in fragmenten van kustbos Saadani National Park, Tanzania. Department of Biology, University of Antwerp, Belgium.
44. CRAUWELS, D. (2009) Pestsoorten in de tropische landbouw: voeding van een typisch pest-genus (*Mus*) vergelijken met andere genera. Department of Biology, University of Antwerp, Belgium.
45. WILLEMS, C. (2009) Demografie en soortensamenstelling van knaagdieren uit het tropische regenwoud: verwerken van vangst-hervangst gegevens. Department of Biology, University of Antwerp, Belgium.
46. SIJMONS, S. (2009) Functional analysis of replication and transcriptional mechanisms of Lassa virus through a replicon system. Department of Biology, University of Antwerp, Belgium.
47. BRYSSINCKX, W. (2009) Observed area coverage of grazing herds in the EPISTIS study area. Department of Biomedical Sciences, University of Antwerp, Belgium.
48. KIPPERS, H. (2010) Chronische PUUV Hantavirus infectie en de immunocompetentie van de reservoir gastheer, de Rosse woelmuis (*Myodes glareolus*). Department of Biology, University of Antwerp, Belgium.
49. BEDETTI, A. (2010) Home range en dispersie bij kleine zoogdieren in kustbossen in Tanzania. Department of Biology, University of Antwerp, Belgium.
50. SWINNEN, K. (2010) Analyse van de populatiedynamiek van de hamster *Cricetus cricetus*. Department of Biology, University of Antwerp, Belgium.
51. DE RECHTER, D. (2010) Prooivoorkeuren van de kerkuil in Morogoro, Tanzania. Department of Biology, University of Antwerp, Belgium.
52. BASTIANEN, J. (2012) Overleving van het Puumala virus buiten de gastheer en indirecte transmissie bij de rosse woelmuis *Myodes glareolus*. Department of Biology, University of Antwerp, Belgium.
53. GOYENS, J. (2011) Transmissiemechanismen van Mopeia virus bij de gastheersoort *Mastomys natalensis*: een modelmatige en experimentele studie. Department of Biology, University of Antwerp, Belgium.
54. MINNE, T. (2012) Transmissiepatronen van Mopeia arenavirus in vrijlevende populaties van de gastheersoort *Mastomys natalensis*. Department of Biology, University of Antwerp, Belgium.
55. VAN DE PERRE, F. (2012) Wildlife corridors around Saadani National Park, Tanzania: The connection towards the Wami-Mbiki Wildlife Management Area. Department of Biology, University of Antwerp, Belgium.
56. BORGMAANS, G. (2013) The role of scents in mediating social interactions in a non-territorial, promiscuous rodent (*Mastomys natalensis*). Department of Biology, University of Antwerp, Belgium.
57. TOMSIN, N. (2014) The effect of biodiversity on the transmission rate of Puumala hantavirus infection in bank voles: a contact rate study. Department of Biology, University of Antwerp, Belgium.
58. DAUWE, D. (2014). Moleculaire identificatie van bushmeat soorten die verkocht worden op markten in de regio van Kisangani, DR Congo. Department of Biology, University of Antwerp, Belgium.
59. VANDEN BROECKE, B. (2014) De effecten van persoonlijkheden (*Mastomys natalensis*) op infectie met het Mopeia virus. Department of Biology, University of Antwerp, Belgium.
60. MARIËN, J. (expected 2014) De transmissie efficiëntie van het Mopeia virus in populaties van *Mastomys natalensis*. Department of Biology, University of Antwerp, Belgium.
61. MATTHYSSEN, S. (2014) Studie van de biodiversiteit van slangen in de Democratische Republiek Congo, door middel van DNA-barcoding, fylogeografie en morfologische taxonomie. Department of Biology, University of Antwerp, Belgium.
62. RUTTEN, A. (2014) Environmental conditions as explanatory factors for the distribution of Beaver dams. Department of Biology, University of Antwerp, Belgium.
63. VAN GINNEKEN, M. (2014) Taxonomisch onderzoek op de kleine *Barbus*-soorten van de noordoostelijke zijrivieren (Itimbiri, Aruwimi, Lindi/Tshopo) van het Congobekken. Department of Biology, University of Antwerp, Belgium.
64. MONCOQUET C. (2014) Abundance and diversity of small mammals in presence or absence of grazers in Nechisar National Park, Ethiopia. Department of Biology, University of Antwerp, Belgium.
65. DUWÉ, B. (2015). Genetische typering van de beverpopulatie (*Castor fiber*) in Vlaanderen. University of Antwerp, Belgium.
66. MELS, B. (2015) Habitatgebruik door de hazelmuis in Voeren. Department of Biology, University of Antwerp, Belgium.
67. TEUNEN, L. (2015) Het belang van macro- en microklimaat op geprefereerde overwinteringsplaatsen voor vleermuizen in de fortengordel rond Antwerpen. Department of Biology, University of Antwerp, Belgium.
68. SIMMONS, B.A. (2015) Dynamics of the encroaching sicklebush (*Dichrostachys cinerea*) in Nechisar National Park, Ethiopia. Department of Biology, University of Antwerp, Belgium.
69. SCHRAMME, E. (2015) Social structure of spotted hyena (*[i]Crocuta crocuta[i]*) populations around Mekelle city in Tigrey, Ethiopia. Department of Biology, University of Antwerp, Belgium.

70. DELEYE, L. (2015) Spatial and temporal variation of small mammal communities in a poplar Short Rotation Coppice plantation. Department of Biology, University of Antwerp, Belgium.
71. DE WAEL, E. (2015) Ecologie van het Mobala arenavirus in *Mastomys* spp. in Noord-Ethiopië. Department of Biology, University of Antwerp, Belgium.
72. VAN GESTEL, M. (2015) M. Verandering van genetische gastheerlijn in het Morogoro arenavirus. Department of Biology, University of Antwerp, Belgium.
73. DELHAYE L. (2015) Karakterisatie van stikstofoxide synthase in de tsetseevlieg *Glossina morsitans morsitans* en de rol ervan in de ontwikkeling van de *Trypanosoma brucei* parasiet. Department of Biology, University of Antwerp, Belgium.
74. VAN HEES, M. (expected 2015) Evolutie van zoonosen langsheen de Congostroom: vergelijkend fylogeografisch onderzoek van ziekteverwekkers en hun gastheren. Department of Biology, University of Antwerp, Belgium.
75. LOCUS, T. (2016) Landscape heterogeneity as a driver of evolutionary divergence in East-African arenaviruses. Department of Biology, University of Antwerp, Belgium.
76. FAVAITS J. (2016) Landscape heterogeneity as a driver of evolutionary divergence in East-African arenaviruses. Department of Biology, University of Antwerp, Belgium.
77. CREEMERS E. (2016) Effect of infection with Morogoro virus on the fitness of its rodent host *Mastomys natalensis*. Department of Biology, University of Antwerp, Belgium.
78. FRANSSSEN N. (2016) Indirect transmission of Puumala virus in the rodent host *Myodes glareolus*. Department of Biology, University of Antwerp, Belgium.
79. GERAERTS M. (2016). A study of the diversity and prevalence of the Bartonella bacteria and the Monkeypox virus in different rodent and shrew species in the rainforest of Yangambi (DRC). Department of Biology, University of Antwerp, Belgium.
80. HEUS M. (2016) Overwinteringsplaatsen voor vleermuizen in de fortengordel rond Antwerpen. Department of Biology, University of Antwerp, Belgium.
81. TEUNKENS B. (2016) The role of small rodents in ecosystem assembly. Do mice stimulate soil development by transporting soil mesofauna to restored sites? Department of Biology, University of Antwerp, Belgium.
82. GOOSSENS, J. (2016) Rol van serpines in de tsetsevlieg-*Trypanosoma* interactie. Department of Biology, University of Antwerp, Belgium.
83. VERHAEREN C. (2017) Arenavirus survival during low host density: Survival through chronic infections
84. Cuypers L. (2017) Evolutionary diversity and distribution of arenaviruses in Tanzania. Department of Biology, University of Antwerp, Belgium.
85. SALAZAR FILLIPPO A. (2018) Are mice important dispersal vectors for mites in restored heathlands?
86. VAN LOOY J. (2018) Characteristics of agricultural damage by wild boars in Flanders
87. BRIESEN B. (expected 2018) Population genetics of the Spotted Hyena's in Mekelle. Department of Biology, University of Antwerp, Belgium.
88. VAN DEN PANHUYZEN S. (expected 2018) De indirecte transmissie van het Morogoro virus binnen de gastheer *Mastomys natalensis*. Department of Biology, University of Antwerp, Belgium.
89. BONGERS A. (expected 2018) Personality and social networks in small rodents.
90. WHEATLEY M. (expected 2018) Studying the Link Between Animal Personality and Foraging Behaviour in a Wild Rodent Population. Department of Biology, University of Antwerp, Belgium.
91. REYNAERT S. (expected 2018) Study of common leopard (*Panthera pardus fusca*) diet in relation to human-wildlife conflicts in Chtiwan National Park and Buffer Zone. Department of Biology, University of Antwerp, Belgium.
92. SILVA CASINHAS I. (expected 2018) Predator-prey games: diel activity patterns between a specialist predator and its staple prey. Department of Biology, University of Antwerp, Belgium.
93. VAN DEN BOSCH E. (expected 2018) Ecology and distribution of sandflies in Ochollo, a cutaneous leishmaniasis hotspot in Southern Ethiopia. Department of Biomedical Sciences, University of Antwerp, Belgium.

- promotor for graduate thesis in product development:

LEYSSEN, S. 1993. Kleinschalige voedselopslag in Tanzania, Mwanza. Praktisch memorandum, Henry Van de Velde - Instituut, Antwerpen.

- external examiner of Ph.D.-theses

1. JACOB, J. 2000. Friedrich-Schiller Universität Jena, Germany.
2. NICOLAS, V. September 2003. Université de Rennes, France
3. OLSSON, G. October 2003. Swedish University of Agricultural Sciences, Umeå, Sweden (opponent)
4. KAWALKA, M. 23 November 2004, Universität Duisburg-Essen, Germany
5. BURTHE, S. J. 19 April 2005, University of Liverpool, UK
6. BROWN, P.R., November 2005, University of New South Wales, Australia

7. MEERBURG, B.G., 24 May 2006, Universiteit van Amsterdam, The Netherlands
8. KALLIO, E.R., September 2006, University of Jyväskylä, Finland, (examiner)
9. MBOUMBA, J.F., 18 July 2007, Université de Rennes 1, France
10. SHAHER BANO TOUSIF, July 2007, University of Karachi, Pakistan
11. KOIVISTO, E., 24 October 2008, University of Turku, Finland (opponent)
12. LINARD, C., 23 January 2009, Université Catholique de Louvain, Belgium
13. BORCHERT, M., 26 March 2009, Universiteit Gent, Belgium
14. TOLLENAERE, C., 2 December 2009, Université de Montpellier 2, France
15. FATEMEH TABATABAEI YAZDI, 28 February 2011, Universiteit Gent, Belgium
16. RAZZAUTI, M., 24 February 2012, University of Helsinki, Finland (opponent)
17. BUIJ, R., 24 January 2013, Universiteit Leiden, The Netherlands
18. LEHTONEN, J., 18 October 2013, University of Helsinki, Finland (opponent)
19. GOEDBLOED, D.J., 13 November 2013, Wageningen University, The Netherlands
20. KORPELA, K., 10 October 2014, University of Jyväskylä, Finland (opponent)
21. ZEIMES, C., 3 April 2015, Université Catholique de Louvain, Belgium
22. WILSCHUT, L., 10 July 2015, University of Utrecht, The Netherlands
23. SMITH, H., 14 August 2015, University of Sydney, Australia
24. TUQA JIRMO, 19 November 2015, Universiteit Leiden, The Netherlands
25. DIAGNE, C., 11 December 2015, Université de Montpellier, France
26. GIRMA ESHETE GENBERE, 5 September 2017, Universiteit Leiden, The Netherlands
27. MARTINOLI, A., 15 March 2018, University of Insubria, Varese, Italy
28. SANTICCHIA, F., 15 March 2018, University of Insubria, Varese, Italy

- external examiner for M.Sc.-theses etc.

- University of Dar es Salaam, Tanzania (1999)
- Potchefstroom University for Higher Christian Education, Potchefstroom, South Africa (2000)
- Université de Liège, Belgium (2004)
- Katholieke Universiteit Leuven, Belgium (2006, 2007, 2008)
- University of Copenhagen, Denmark (2006, 2008)
- University of Namibia, (2018)

- involved in organising practical exercises Zoology for undergraduate students in Biology, Veterinary Medicine and Pharmaceutical Sciences at the University of Antwerp (1985-1996)
- organisation of an undergraduate Biology students field trip to South-west Ireland (1986);
- organisation of a 3-weeks Tropical Field Class in Tanzania for undergraduate Biology students from University of Antwerp and Sokoine University of Agriculture (2006, 2008, 2010, 2012, 2014, 2016, 2018);

6. SCIENTIFIC, SOCIAL AND ADMINISTRATIVE SERVICES

6.1. University of Antwerp (partially in Dutch, for internal use at UA)

- 1982-83 until 1984-85: president of Fabiant, the Antwerp Biology Students Association.
- member (student representative) of different councils at the University of Antwerp (UIA):
 - 1984-85 Board of Directors
 - Permanent Bureau of the Board of Directors
 - Department Board (Dept. of Biology)
 - Faculty Board (Fac. of Sciences)
 - Education Commission
 - Student Working Group
 - 1985-86 Department Board (Dept. of Biology)
 - Permanent Curriculum Commission Biology
 - Faculty Board (Fac. of Sciences)
 - 1986-87 Faculty Board (Fac. of Sciences)
- in 1985-86 and 1986-87 ombudsman Zoology (UIA)
- in 1986-1996 member and 1989-1995 treasurer of the Organisation of Academic Staff at the University of Antwerp (RUCA)
- in 1992-1996 Secretary of the Institute for the Study of Biological Evolution (University of Antwerp)
- in 1993-1996 member of the Department Board (Dept. of Biology)
- co-ordinator of the 1995 Summer School Biology for high school students, University of Antwerp
- member of the Self-Study Working Group "Visitation Biology University of Antwerp": 1995-1996

- sinds 2001: lid van het Bureau van de Onderwijscommissie Biomedische Wetenschappen
- sinds 2002: onderzoeksgroepverantwoordelijke "Evolutionaire Biologie", Dept. Biologie
- 2002-2004: plaatsvervangend secretaris Examencommissie 1^{ste} kandidatuur Dierenarts
- sinds 2004: secretaris Examencommissie 1^{ste} kandidatuur Dierenarts
- sinds 2002: lid van de BaMa-werkgroep Biologie
- sinds 2002: lid van de BaMa-werkgroep Dierenarts
- 2002: lid van de Commissie Academisch Personeel "Parasitologie" (Fac. FBD)
- 2002-2003: 2^{de} plaatsvervanger-vertegenwoordiger Dept. Biologie in Onderzoeksraad RUCA
- september 2003: samenroeper van de Commissie Academisch Personeel "Biostatisticus/Populatiebioloog"
- 2003: lid van de Commissie Academisch Personeel "Tropische Immunologie, Tropische Ecologie en Parasieten, Tropische Infectieziekten" (Fac. FBD)
- sinds 2004: plaatsvervangend lid van de Raad voor Wetenschappelijke en Maatschappelijke Dienstverlening, als vertegenwoordiger van de Faculteit Wetenschappen
- sinds 2004 plaatsvervangend lid en sinds 2006 effectief lid van de sIS (stuurgroep Internationale Samenwerking), als vertegenwoordiger van de Faculteit Wetenschappen
- sinds 2004: lid van de "Spectrum" stuurgroep van ActUA
- sinds 2004: lid van de leescommissie B van de Onderzoeksraad UA
- sinds 2004 : plaatsvervangend lid van de redactieraad Tijdschrift Universiteit Antwerpen
- 2004-2007: lid van het Bureau van de Onderwijscommissie Diergeneeskunde
- 2004-2007: ondervoorzitter van de Onderwijscommissie Biologie
- 2005: lid van de voorbereidende werkgroep "Visitatie Biologie", redacteur voor verschillende hoofdstukken en de bijlagen van het zelfstudierapport
- 2005: lid van de selectiecommissie "Vlaamse reisbeurzen VLIR-UOS"
- 2005, 2007: lid van de Jury voor de Wetenschappen (Prijzen van de Onderzoeksraad UA: de "Prijs Frans Verbeure")
- 2007-2009: voorzitter Voortgangscommissie 1Ba Diergeneeskunde
- 2007-2009: Voorzitter van de Onderwijscommissie Biologie
- 2007-2009: Voorzitter van de Examencommissie Bachelor Biologie
- 2007-2009: Voorzitter van de Examencommissie Master Biologie
- 1/10/2009-30/09/2015: Decaan van de Faculteit Wetenschappen; in die functie lid van talrijke andere gremia
- vanaf oktober 2011: lid van de Stuurgroep Internationalisering
- sinds 1 oktober 2015: lid van de Raad van Bestuur van de UAntwerpen, sinds november 2016 voorzitter

6.2. Other committees

- 2004-2005: member of the Scientific Council of the Royal Belgian Institute of Natural Sciences (Wetenschappelijke Raad van het Koninklijk Belgisch Instituut voor Natuurwetenschappen, Brussel - K.B. 22-09-04)
- 2005: member of the Flemish Interuniversity Council – University Development Cooperation Selection Committee "Own Initiatives and South-Initiatives" (VLIR-UOS Selectiecommissie Eigen Initiatieven en Zuidinitiatieven)
- 2006-2007: member of the Flemish Interuniversity Council – University Development Cooperation Selection Committee "Congo-Initiatives" (VLIR-UOS Selectiecommissie Congo-projecten)
- since 10 April 2008: Member of the Board of Directors ("bestuurder") of the N.V. Koninklijke Maatschappij voor Dierkunde van Antwerpen (KMDA)
- since 24 April 2008: Member of the Board of Directors ("bestuurder") of the vzw Koninklijke Maatschappij voor Dierkunde van Antwerpen (KMDA)
- since 2009: Member of the Board of Directors ("bestuurder") of the vzw Reptielenland Blankenberge
- since 2013: member of the Board of Directors of the ngg APOPO, since September 2018 Chairman
- since 2014: member of the expertpanel "BIO3" of the FWO (Research Foundation Flanders); chairman (2018)
- since 1 August 2015: member of the Bureau VLIR-UOS; since 2016 vice-chairman
- 2016-: member of the General Council of VVOB-Education for Development, Brussels
- 2017-2020: member of the Scientific Advisory Board of the Leibniz-Insitut für Zoo- und Wildtierforschung, Berlin, Germany
- 2017-: lid van de Algemene Vergadering en van het Remuneratiecomité van het Universitair Ziekenhuis Antwerpen
- since 1 July 2018: member of the Board of Governors, Institute of Tropical Medicine, Antwerp, Belgium

6.3. Editorial work

- *Mammalia* (since 1997 member of the Editorial Board, 1999-2009 Associate Editor)
- *Belgian Journal of Zoology* (Guest Editor for workshop proceedings issues in 1997 and 2005, Branch Editor Ecology 2006-2009)
- *Oecologia* (Handling Editor for Terrestrial Vertebrate Ecology since 2007)
- *Integrative Zoology* (member of the editorial Board since 2018)

6.4. Referee assignments

Acta Theriologica; Acta Zoologica Sinica; African Zoology; Agriculture, Ecosystems and Environment; Behavioural Ecology; Behavioural Ecology and Sociobiology; Belgian Journal of Zoology; Biodiversity and Conservation; Biological Journal of the Linnean Society; Biology Letters; BioMed Central Biotechnology; British Ecological Society Annual Symposium Proceedings; Climate Research; Crop Protection; EcoHealth; Ecology; Emerging Infectious Diseases; Encyclopædia of Pest Management; Epidemics; International Journal of Environmental Health Research; International Journal of Pest Management; Journal of African Zoology; Journal of Animal Ecology; Journal of Applied Ecology; Journal of Mammalogy; Journal of Tropical Ecology; Journal of Zoology (London); Mammalia; Parasitology; Pesticide, Biochemistry and Physiology; Pesticide Science; PLOS Neglected Tropical Diseases; PLoS Pathogens; Polar Biology; Oecologia; Oikos; Phytoparasitica; Proceedings of the National Academy of Sciences; Proceedings of the Royal Society London B; Polish Journal of Ecology; Scientific Reports; Tropical Zoology; Vector-Borne and Zoonotic Diseases; Wildlife Research; Wildlife Society Bulletin

6.5. Reviewer for positions, grants, projects,...

- 8 - 25 August 1997: member of a 3-person review team for the Australian Center for International Agricultural Research (ACIAR), reviewing research projects AS1/94/20 "Management of rodent pests in Southeast Asia" and AS1/96/79 "Management of rodent pests in Vietnam" in Indonesia, Malaysia, Vietnam and Australia.
- June 2002: reviewing two project applications for National Research Foundation, South Africa
- July 2002: reviewing a project application for Norwegian Research Council
- September 2002: member of the Evaluation Committee for the lab "Origine, structure et evolution de la biodiversité", (CNRS-ESA 8034, Muséum National d'Histoire Naturelle), Centre National de la Recherche Scientifique, Paris
- December 2002: reviewing a project application for the Wellcome Trust, UK
- August 2003: reviewing a project application for Norwegian Research Council
- September 2003: reviewing a staff promotion case for Ben Gurion University of the Negev, Beer-Sheva, Israel
- 2004: selection committee for the position of Research Director, Danish Pest Infestation Laboratory, Denmark
- December 2004: Formulation Committee for the Professorship of Zoology, Royal Veterinary and Agricultural University, Frederiksberg, Denmark
- November 2004: reviewing a project application for Norwegian Research Council
- August 2005: reviewing project applications for National Research Foundation, South Africa
- 2005: member of the Selection Commission "VLIR - Own Initiatives"
- January 2006: member of the extended staff promotion committee at the Royal Museum for Central Africa, Tervuren, Belgium
- April 2006: reviewing an "evaluation and rating" application for National Research Foundation, South Africa
- May 2006: member of the extended staff promotion committee at the Royal Belgian Institute of Natural Sciences, Belgium
- June 2006: reviewer for an application "Habilitation à Diriger des Recherches" at the Université Paris 7
- 2006: member of the Selection Commission "VLIR-UOS - Congo-Initiatieven"
- 2007, 2008: member of the selection committee for different staff positions at the University of Copenhagen (Denmark)
- 2009-2012: member of the "Begeleidingscomité van de Onderzoeksacties in de Federale Wetenschappelijke Instellingen", Federaal Wetenschapsbeleid, Brussel.
- 2009-2010: member of the "Wetenschappelijke Toetsingscommissie (WTC), die globaal nagaat of in Vlaanderen correcte criteria worden gebruikt om de staat van instandhouding van bij Europa in het kader van de Vogel- en Habitatrichtlijn aangemelde habitats en soorten te beoordelen". Institute for Nature and Forest Research, Brussels.
- May 2011: member of the selection committee for the appointment of Heads of Department, Institute of Tropical Medicine, Antwerp
- February 2012: member of the selection committee for a tenure track lecturer in Malaria eco-epidemiology, Institute of Tropical Medicine, Antwerp

- November 2012: member of the selection committee for Professor in Veterinary entomology, Institute of Tropical Medicine, Antwerp
- November 2013: member of the selection committee for a Professor in Medical Helminthology, Institute of Tropical Medicine, Antwerp
- 2014- : member of the Scientific Advisory Committee of the Institute for Nature and Forest Research, Brussels.
- 30 January 2015: chairman of the HCERES expert evaluation committee for unit "USC1233 VAS-INRA – Rongeurs Sauvages – Risques sanitaires et Gestion des Populations", Lyon, France.
- 2015: reviewer for project grants in the Animal Health and Welfare ERA-Net program
- 2016: Evaluation committee for the position of Associate Professor/ Professor in Ecological and Evolutionary Dynamics, University of Oslo, Norway
- August 2016: member of the selection committee for a postdoc in medical entomology, Institute of Tropical Medicine, Antwerp
- November 2016: ZAP-evaluation of Associate Professor, Institute of Tropical Medicine, Antwerp
- 2017: member of the evaluation and advisory committee of the program "BEESYN", FOD Volksgezondheid, Veiligheid van de Voedselketen en Leefmilieu
- December 2018: Scientific Advisory Board aiming at evaluating UMR PIMIT (Processus Infectieux en Milieu Insulaire Tropical), Université de La Réunion, CNRS 9192, INSERM 1187, IRD 249, Ile de La Réunion, France

6.6. International consultancies, advisory work, expert meetings

- 7 - 30 June 1995: consultant for the World Health Organisation for ecological research during the Ebola epidemic outbreak in Kikwit, Zaire.
- 4 - 9 August 1998: short-term consultant for DANIDA, advising the Workshop on Management of Rodent Pests in Southeastern Asia, at the International Rice Research Institute, Los Baños, the Philippines.
- 21 March – 2 April 1999: short-term consultant for the World Health Organisation (EMRO-Alexandria), advising the Government of Cyprus on the development of a national plan for rodent control.
- 12 - 22 May 1999: consultant for the World Health Organisation for ecological research during the Marburg epidemic outbreak in Durba, Democratic Republic of the Congo.
- 2000-2003: Member of the Scientific Advisory Panel of the Cooperative Research Centre for the Biological Control of Pest Animals, Canberra, Australia
- 13 - 23 September 2000: short-term consultant for DANIDA, visiting Laos and Vietnam to discuss possibilities for rodent research with the International Rice Research Institute
- 27 February – 6 March 2001: short-term consultant for the World Health Organisation (EURO), advising on rodent control problems and organisation in the Republic of Tajikistan.
- 15-17 April 2008: Workshop: strategies and options for research into H5N1 ecology and distribution (organised by the University of Kansas, funded by USDA)

6.7. Municipality of Edegem (Belgium)

- nature guide CVN-VMPA (1981-1996)
- monitor (1979-1982) and senior monitor (1982-1986) of the municipal children holiday activities
- member (1980-1983) and acting chairman (1983-1986) of the Municipal Youth Council
- member (1980-1996) of the Edegem Municipal Festivities Committee
- Chairman of the Municipal Environmental Advisory Council (since its erection in 1992 until 1996)

6.8. Lectures for the general public or media appearances (since 2002)

- 25 maart 2002: Dodelijke ziekten uit het oerwoud: een bedreiging voor de 21^{ste} eeuw? Avondvoordracht ter gelegenheid van 150 jaar RUCA., Antwerpen.
- 10 oktober 2002: Allemaal nare beestjes: dodelijke virussen uit het oerwoud, een bedreiging? Spectrum lezingenreeks ACTUA, Antwerpen.
- 21 oktober 2002: Over muizen en mensen: populatie-ecologie en bio-economie van knaagdierpestsoorten. Koninklijk Natuurwetenschappelijk Genootschap Dodonaea, Gent.
- 18 maart 2003: Dodelijke ziekten uit het oerwoud? VEVASCO Oud-Scouts, Edegem
- 8 mei 2003: Dodelijke ziekten uit het oerwoud? FORAS, Forum Academici Schoten
- 24 november 2003: studiogesprek over lemmingenpopulatiedynamiek, Jongens en Wetenschap, Radio 1
- 1 december 2003: "Dodelijke virussen uit het oerwoud". Actueel Denken en Leven, Antwerpen

- 3 december 2003: telefooninterview "Waarom zijn er geen groene zoogdieren?", Jongens en Wetenschap, Radio 1
- 7 januari 2004: telefooninterview "Wanneer is sex ontstaan?", Jongens en Wetenschap, Radio 1
- 2 april 2004: "Wetenschapper van de week: Herwig Leirs", De Standaard, DS Wetenschap p8.
- 30 april-7 mei 2004: krantenartikels en/of on-line nieuwsitems i.v.m. een artikel in Science in o.a. De Tijd, De Standaard, Gazet van Antwerpen, Belang van Limburg, Het Laatste Nieuws, Het Volk, De Gentenaar, De Morgen, Knack (9 juni 2004), New Scientist (UK), Nature Science Update (UK), Politiken Søndag (DK), Journal of the American Medical association (USA) en overname van deze artikels en persberichten in verschillende andere buitenlandse kranten.
- 10 juni 2004: studiogesprek over builenpest in Kazakstan, Jongens en Wetenschap, Radio 1
- collaboration for a theme issue "Muizenissen en knaagzangen. Knaagdieren in voor en tegenspoed.", MENS, volume 55 (Oct-Nov-Dec 2004), 15 pp.
- collaboration for a theme issue "Des souris et des rats, petits soucis et grand tracas. Heurs et malheurs des rongeurs.", MENS (French edition), volume 30 (Oct-Nov-Dec 2004), 15pp.
- 22 februari 2005: telefooninterview "Hebben walvissen een geluidskaat in hun hoofd?", Deckers & Ornelis, Q-music
- 9 June 2005, interview in the BBC World radio programme "Rats - A friend or a foe or just food" (afterwards available on-line at http://news.bbc.co.uk/2/hi/programmes/documentary_archive/4600185.stm)
- 7 september 2005: interview i.v.m. moslim creationisme voor een artikel "Een sluier voor het gezicht", Knack nr.35
- 21 september 2005: ingezonden lezersbrief over creationisme (Knack nr. 37)
- 16 maart 2006: Dodelijke ziekten uit het oerwoud? CRM Neerpelt
- 16 juni 2006: radiointerview "Pestepidemie in het noord-oosten van Congo", de Wandelgangen, Radio 1
- 17 juni 2006: krantenartikel "Antwerpse prof helpt Congo" ivm de pestepidemie in het noord-oosten van Congo, Gazet van Antwerpen
- 22 augustus 2006: "Builenpest hebben we hier nog niet, maar we moeten waakzaam blijven", Humo, p36-37.
- 8 november 2006: "De pest komt terug", Knack, p 69
- 5 dec 2006: Tanzania-avond: studenten presenteren hun verslag van de Tropische stage. (>400 aanwezigen). Universiteit Antwerpen.
- 19 december 2006: "UA scoort met biologie", Gazet van Antwerpen
- "De Zwarte Dood ligt nog altijd op de loer – Een nieuwe methode voor de preventie van pest", Alfabet (magazine van de Universiteit Antwerpen), nr. 70, dec 2007 – jan/feb 2007, p 20-24.
- 12 oktober 2007: Dodelijke ziekten uit het oerwoud? St.Agnesinstituut, Hoboken
- 14 oktober 2007: Builenpest en Woestijnratten in Centraal-Azië. Koninklijke Maatschappij voor Dierkunde Antwerpen
- 30 oktober 2007: Builenpest en Woestijnratten in Centraal-Azië. Kring Van Der Wee Antwerpen
- 9 oktober 2008: "De zwarte rat rukt op", De Laatste show, één (VRT TV)
- 20 oktober 2008: "Gevaarlijke ideeën in de biologie". voordracht in het kader van het Studium Generale, Universiteit Antwerpen
- 23 oktober 2008: interview in "De Standaard" over het belang van "nieuwe" door knaagdieren overgebrachte ziekten.
- vanaf 27 november 2008: vijf afleveringen "Wildcard Tanzania" over de Tropische stage in Tanzania, Canvas (VRT TV) + verschillende vermeldingen, interviews en artikels in gedrukte media en op websites in dit verband
- 24 november 2008: interview "Geluksweek voor de natuur" over de ontdekking van een onbekend bosgebied in Mozambique, De Ochtend (VRT radio één)
- 26 maart 2009: interview "Wildgroei knaagdieren nefast voor voedsel in de wereld" over onze publicatie in Pest management Science, De Ochtend (VRT radio één). Verschillende verwante berichten in Nederlandse en Belgische kranten in de week ervoor en erna, met uitgebreidere interviews in Gazet van Antwerpen (26 maart 2009) en De Standaard (31 maart 2009).
- april 2009: verschillende vermeldingen in de pers i.v.m. het eredocoraat voor Richard Dawkins
- 29 april 2009: "Een rat zonder val". Knack, rubriek Kennis, p53
- 3 november 2009: interview "Amfibieën meest bedreigde diersoort" over de nieuw gepubliceerde IUCN Red List, De Ochtend (VRT radio één)
- februari 2010: artikel "Google de pest", Natuurwetenschap & Techniek, februari 2010, 42-45.
- 15 maart 2010: lezing "Het recht van de sterkste theorie. De evolutietheorie van Darwin." Seniorenuniversiteit, Universiteit Hasselt.
- 23 maart 2010: Gespreksavond over het werk van R.Dawkins (uitgenodigd als spreker samen met Prof. H.De Dijn). Vereniging van Vlaamse Academics, Antwerpen

- 13 oktober 2010: "Dodelijke virussen uit het oerwoud". Lezing als nascholingsactiviteit voor het Centrum Nascholing Onderwijs, Universiteit Antwerpen.
- 15 december 2010: bijdrage ATV-CampusTV portret
- 17 januari 2011: "Gevaarlijke ideeën in de biologie". Actueel Denken en Leven Mechelen.
- 25 juni 2011: radio-interview "De woestijnrat en de pest", Interne Keuken, (VRT radio één)
- juli-augustus 2011: medewerking via interviews aan de 8-delige TV-documentaire "De Olifant", ATV.
- 26 oktober 2011: bijdrage ATV-CampusTV portret over persoonlijke muizenvalcollectie
- 15 november 2011: radio-interview "Kettingvraag: waarom zijn konijnen geen kwaagdieren?" Hoe?Zo! (radio 5, Nederland)
- 11 december 2011: TV-interview "Neushoornhoorn" (VTM-nieuws)
- 3 januari 2012: Waarom hebben mensen schaamhaar? nrcnext.nl
- 1-2 november 2012: interviews over de effecten van de overstromingen in de New Yorkse metro (t.g.v. de orkaan Sandy) voor de rattenpopulatie in New York; o.a. LiveScience, Daily Mail, Het Laatste Nieuws, 'Kruitfabriek (Vier).
- and many others since then...

7. FIELD STUDY TRIPS ABROAD (short field training visits or student supervision trips not included)

- South-west Ireland: 2 weeks in July 1982
Fauna and flora of Beara Peninsula (Co. Cork).
- Italian Alps: 2 weeks in July 1983
Fauna and flora of Italian Tirol.
- Wimereux (France) September 14-21., 1984
Station de Biologie Maritime.
Intertidal fauna and flora. Mobility and colonisation capacity of some marine Gastropode species.
- Finland: August 1985
 - International Biological study camp Parikkala (South-Karelia); Lectures and excursions on characteristic typical Finnish habitat types.
 - Biological Research Institute in Kevo (Utsjoki, Lapland) of the Turku University: Trapping small mammals.
- Germany: February 1986
Collecting rodents at different localities.
- France: June 1986
Collecting rodents at different localities.
(grant from the National Fund for Scientific Research (Belgium)).
- Southwest Ireland: 2 weeks in July 1986
Fauna of the Beara Peninsula (Co. Cork); collecting rodents at different localities.
- Senegal-Gambia: December 1986 - January 1987
Fauna of Senegal; collecting rodents at different localities.
- Tanzania: June, July, August 1987
Collecting rodents at different localities in Lindi, Morogoro, Mtwara and Ruvuma regions. Population ecology of *Mastomys*.
- Tanzania: October, November 1987
Collecting rodents at different localities in Tanga (plague endemic area) and Morogoro regions. Population ecology of *Mastomys*.
- Tanzania: May, June, July, August 1988
Collecting rodents at different localities in Morogoro and Iringa regions. Population ecology of *Mastomys*.
- Tanzania: October, November, December 1988, January 1989
Collecting rodents at different localities in Morogoro and Iringa regions. Population ecology of *Mastomys*.
- Kenya: 25 May - 9 June 1991
Prospection trip to Rift Valley and Western Provinces. Discuss rodent problems and possibilities for research programs at the Moi University, Eldoret.
- Gabon: 29 August - 28 September 1992
Collecting rodents at different localities in Central and south-western Gabon.
- Australia: 27 June - 3 July 1993
Plant and Animal Control Commission of South Australia, Adelaide: problems of mouse outbreaks
- South Africa: 12 July - 12 August 1993
Collecting rodents at *Mastomys* type localities and other sites in Transvaal, Natal and Cape Province (participating, on invitation and expense of the Transvaal Museum, Pretoria, in the expedition organised by G.Bronner)

- Tanzania: 26 February - 17 April 1994
Population ecology of *Mastomys*
- Tanzania: 17 September - 25 November 1994
Population ecology of Mastomys; seasonality of reproduction in Mastomys
- Tanzania: 25 February - 22 April 1995
Population ecology of *Mastomys*
- Ethiopia: 22-29 April 1995
Population ecology of *Mastomys*
- Zaire: 7 - 30 June 1995
WHO-mission looking for the Ebola-virus reservoir
- Tanzania: 3 October - 6 December 1995
Population ecology of *Mastomys* ; rodent problems in agroforestry
- Ethiopia: 13-18 April 1996
Population ecology of *Mastomys*
- Tanzania: 17 September - 6 November 1996
Population ecology of *Mastomys*
- Tanzania: 14 February - 3 March 1998
Population ecology of *Mastomys*
- Tanzania: 24 October - 8 November 1998
Population ecology of *Mastomys*
- Tanzania: 8-16 and 23-28 April 1999
Population ecology of *Mastomys*
- Democratic Republic of the Congo: 14-22 May 1999
WHO-mission looking for the Marburg-virus reservoir
- Tanzania, Kenya: 10 April - 10 May 2000
Population ecology of *Mastomys*
- Zambia: 10-17 February 2001
Rodent ecology on maize fields
- Kazakhstan: 11-18 May 2008
Ground truthing satellite images of gerbil colonies
- DR Congo: 28 June - 17 July 2018
Ecology of the Ebola virus

8. PROJECT FUNDING

The table below lists the external funding obtained for projects, either as main applicant or with a considerable involvement (approx. amounts in euro). When acting as the co-ordinating group, the whole consortium budget is mentioned. Company-ordered technical research is totalled per year without giving details, for reasons of commercial confidentiality. Personal grants to students working under HL supervision are not included.

Period	Title	Funding source	Amount in €	Administration of funds
1994-1996	Rodent biology and Integrated Pest Management in agriculture and public health in East Africa	EU (STD3)	360,000	RUCA (co-ordinator)
1996-1997	Vestigingssucces van immigranten in een populatie bosmuizen	RUCA-RAFO	9,920	RUCA
1997-1998	Dispersiedynamiek bij knaagdieren	FWO-Krediet aan navorsers	11,230	RUCA
1997-2000	Studie van genetische variatie en gevolgen van inteelt in geïsoleerde vertebratenpopulaties met behulp van microsateelit DNA markers	FKFO	29,698	UIA
1996-1997	International Workshop Rodent Biology and IPM in Africa	EU (STD3)	33,000	RUCA
1996-1999	Biodiversity of the Taita Hills (Kenya): zoogeography and impact of habitat fragmentation and degradation,	VLIR-Eigen Initiatieven	433,814	RUCA
1997-2000	Predation pressure and population dynamics in African <i>Mastomys</i> rats: possibilities for integrated pest management?	Danida (RUF)	301,998	DPIL
1997	Company-ordered technical research		20,000	DPIL
1998	Monitoring rodenticide resistance in Denmark	DK Ministry of the Environment/Ministry of Food, Agriculture and Fisheries	53,820	DPIL
1998	Company-ordered technical research		42,400	DPIL
1998-2000	Effects of grazing intensity on small mammals in wetlands,	DK Ministry of Food, Agriculture and Fisheries	16,000	DPIL (other expenses administered at KVL)
1998-2002	Monitoring of Quantitative and Qualitative Parameters of Especially Dangerous Infections on the Example of Natural Plague Foci in the Republic of Kazakhstan	EU (ISTC)	p.m. ¹	funds (214,362 €) located in Kazakhstan
1999	Monitoring rodenticide resistance in Denmark	DK Ministry of the Environment/Ministry of Food, Agriculture and Fisheries	53,820	DPIL (from 2000 onwards, the DPIL basis budget will be increased with this amount)
1999	Researcher course "Rodent population dynamics: pest control and environmental monitoring"	NorFA	33,244	DPIL
1999-2001	Rodent Ecology at IRRI – Working Group in the IPM Network	Danida	p.m. ¹	funds (160,000 €) located at IRRI, the Philippines, as supplement to core funding
1999-2000	A population dynamics model for rodent management in Africa,	Danida (RUF)	53,791	DPIL
1999-2001	Population genetic effects of anticoagulant resistance in Norway rats	Danish Ministry of Food, Agriculture and Fisheries	57,143	DPIL
1999-2001	A community based program in vertebrate pest management in maize cropping systems in Nakuru district, Kenya,	Rockefeller Foundation	p.m. ¹	funds (70,047 €) located in Kenya
1999	The plague dynamics of Kazakstan – a study focusing on space-time dynamics (START-project for preparation of EU-application)	Danish Natural Science Research Council	10,002	DPIL
1999	Protecting staple crops in eastern Africa: integrated approaches for ecologically based field rodent pest management (START-project for preparation of EU-application)	Danish Agricultural and Veterinary Research Council	15,110	DPIL

2000-2003	STAPLERAT: Protecting staple crops in eastern Africa: integrated approaches for ecologically based field rodent pest management,	EU (5FP – INCO-DEV)	570,000	DPIL (co-ordinator) UA (partner)
2000	Knowledge synthesis “Organic swine farming: increased infection risks in open-air farms”	FØJO, Denmark	2,600	DPIL
2000-	The ecology, biodiversity and taxonomy of rodents and their parasites	VLIR-IUS	92,900 p,a,	RUCA (spokesman)
2001-2004	Gene flow and effective population size in non-equilibrium conditions,	FWO, Belgium		UA
2001-2003	STEPICA: The plague of Central Asia - an epidemiological study focusing on space-time dynamics	EU (5FP – INCO Copernicus)	93,000	DPIL
2001	Exposure scenarios to rodenticides	Danish EPA	30,000	DPIL
2001-2004	MANORPIG: Management in relation to health and food safety in organic pig production	FØJO, Denmark	67,200	DPIL
2002-2004	Population ecology of an eruptive small mammal species: molecular tools to solve questions about the internal and external driving factors of population dynamics,	UA BOF-NOI	110,000	UA
2002-2005	RATZOOMAN: Prevention of sanitary risks linked to rodents at the rural/peri-urban interface	EU (5FP – INCO-DEV)	119,000 211,000	DPIL UA
2002	Organisatie 9 th Benelux Congress of Zoology	Onderzoeksraad RUCA	2,500	UA
2002	Organisatie 9 th Benelux Congress of Zoology	Patrimonium Biologie RUCA	2,500	UA
2002	Organisatie 9 th Benelux Congress of Zoology	FWO	3,000	UA
2003	African Small Mammal Symposium: International workshop on ecologically based Rodent Management (Staplerat ASMS)	EU (5FP - INCO-DEV: Accompanying Measure)	49,868	DPIL
2003	African Small Mammal Symposium: International workshop on ecologically based field rodent pest management,	VLIR Noord-acties	23,914	UA
2003-2004	Development of a molecular databank for forensic identification of African small mammals,	RUCA RAFO	15,000	UA
2003-2004	RAFO Guest Professor (S.Davis, Australia)	RUCA RAFO	17,334	UA
2004-2005	Demographic and population dynamic modelling of small rodents in semiarid environments	Bilateral Scientific Collaboration Flanders-Chili	68,200	UA
2004-2009	Les rongeurs à Kisangani: patrimoine, peste, pilote,	VLIR-EI	309,055	UA
2004-2009	EDEN: Emerging Diseases in a changing European Environment	EU (IP 6FP - Life)	190,000	UA
2005-2006	Foreign postdoctoral researcher with subsidy (L.Lavrenchenko, Russia)	UA BOF	9,180	UA
2005-2009	Population dynamics of earwigs in orchards; optimisation of the presence of an essential predator	IWT, Belgium	171,400	UA
2006-2008	Towards an ecological explanation for the focality of a vector-borne parasite infection, bubonic plague, in Lushoto, Tanzania	FWO, Belgium	80,000	UA
2008-2012	Studies to identify the reservoir of <i>Mycobacterium ulcerans</i> in nature and its mode(s) of transmission to humans.	VLIR-UOS EI	303,867	UA
2008-2013	Landscape-ecological clarification of bubonic plague distribution and outbreaks in the western Usambara Mountains, Tanzania	VLIR-UOS EI	307,360	UA (co-promotor, funds administrated by KU Leuven)
2008-2013	Wildlife Population Ecology and Human-Wildlife Interactions in and around Saadani National Park, Tanzania	VLIR-UOS EI	309,790	UA
2009-2012	Infectious disease models: wildlife ecology, ecological disturbance and transmission to humans.	UA-BOF (GOA)	1.150.000	UA
2009-2012	Soutien académique pour le développement de la recherche appliqué sur les petits mammifères nuisibles en RD Congo.	VLIR-UOS Congo	200.000	UA
2010	Ontwikkeling verdere uitbreiding registratie- en adviessoftwarepakket “PITsoft”	PCFruit	15.000	UA
2011-	EDENext: Biology and control of vector-borne infections	EU FP7	320.000	UA

2014	in Europe			
2012-2016	COBIMFO: Congo Basin Integrated Monitoring for Carbon mitigation and biodiversity	BELSPO	69.300	UA
2012-2016	Naar een kennisgebaseerde bedrijfszekere duurzame beheersing van perenbladvlo in de perenteelt	IWT Landbouw	262.500	UA
2013-2018	Ecology of Lassa virus and related arenaviruses in the natural host <i>Mastomys natalensis</i>	Deutsche Forschungsgemeinschaft	164.900	UA
2013	Land and water research for sustainable livelihood in the South Ethiopian Rift Valley.	VLIR-UOS	6.475	UA
2014-2016	Domestic, peridomestic and wild rodent population ecology, their public health and pest importance in Wolita and Dawro zones, Southern Ethiopia.	VLIR-UOS	74.633	UA
2015-2018	Ecologically based management of rodent pests in maize and rice in East Africa	Gates Foundation	34.310	UA
2015-2018	Landscape heterogeneity as a driver of evolutionary divergence in two rodent-borne RNA-viruses: a multi-scale approach	FWO	200.000	UA
2015-2019	PeMaTo.	VLAIO/(IWT)Landbouw	203.400	UA
2017-2018	Building academic capacity to respond to Monkeypox epidemics: discrimination and origin of eruptive fevers in the Democratic Republic of Congo (DRC)	VLIR-UOS	74.988	UA
2017-2019	Pest Management Tool for tomato and pepper in Europe (PeMaTo-EuroPep).	VLAIO/(IWT)Landbouw	49.500	UA
2017-2022	Africa Center of Excellence on Integrated Rodent Pest Management & Biosensor Technology Development	World Bank	70.000	UA
2017-2018	POPCAT- Modelling cat populations and management	UGent	8.473	UA

¹ HL is an important partner in the project (co-ordinator or external promotor) and has the marginal expenses provided for, but the project funds are located in the country of activity,