

UNIVERSITY OF PRETORIA  
DEPARTMENT OF ZOOLOGY & ENTOMOLOGY

**PUBLICATION LIST – 2003**

Aire, T.A. & van der Merwe, M. 2003. The ductuli efferentes testis of the greater cane rat (*Thryonomys swinderianus*). *Anat. Embryol.* **206**, 409-417.

Allen, W.R., Mathias, S., Wooding, F.B.P. & van Aarde, R.J. 2003. Placentation in the African elephant (*Loxodonta Africana*): II Morphological changes in the uterus and placenta throughout gestation. *Placenta* **24**, 598-617.

Bahlmann, L., Govender, P. & Botha, A-M. 2003. Leaf epicuticular wax ultrastructure and trichome presence on Russian wheat aphid (*Diuraphis noxia*) resistant and susceptible leaves. *African Entomology* **11**(1), 59-64.

Barnett, M., Bennett, N.C., Telford, S.R. & Jarvis, J.U.M. 2003. Foraging in the subterranean social Damaraland mole-rat, *Cryptomys damarensis*: an investigation into size dependent geophyte utilization and foraging patterns. *Canadian Journal of Zoology* **81**, 743-752.

Bastos, A.D.S., Anderson, E.C., Bengis, R.G., Keet, D.F., Winterbach, H.K. & Thomson, G.R. 2003. Molecular epidemiology of SAT 3 type foot-and-mouth disease virus. *Virus Genes* **27**, 283-290.

Bastos, A.D.S., Penrith, M.-L., Cruci re, C., Edrich, J.L., Hutchings, G., Couacy-Hymann, E. & Thomson, G.R. 2003. Genotyping field strains of African swine fever virus by partial *p72* gene characterisation. *Archives of Virology* **148**, 693-706.

Bastos, A.D.S., Haydon, D.T., Sangare, O., Boshoff, C.I., Edrich, J.L. & Thomson, G.R. 2003. The implications of virus diversity within the SAT 2 serotype for control of foot-and-mouth disease in sub-Saharan Africa. *Journal of General Virology* **84**, 1595-1606.

Begg, C.M., Begg, K.S., du Toit, J.T. & Mills, M.G.L. 2003. Sexual and seasonal variation in the diet and foraging behaviour of a sexually dimorphic carnivore, the honey badger *Mellivora capensis*. *Journal of Zoology* **260**, 301-316.

Begg, C.M., Begg, K.S., Du Toit, J.T. & Mills, M.G.L. 2003. Scent-marking behaviour of the honey badger, *Mellivora capensis* (Mustelidae), in the southern Kalahari. *Animal Behaviour* **66**, 917-929

Best, P.B., Rademeyer, R.A., Burton, C., Ljungblad, D., Sekiguchi, K., Shimada, H., Thiele, D., Reeb, D. & Butterworth, D.S. 2003. Blue whales on the Madagascar Plateau, December 1996. *J. Cetacean Res. Manage.* **5**(3), 253-260.

Best, P.B., Schaeff, C.M., Reeb, D. & Palsboll, P. 2003. Composition and possible function of social groupings of southern right whales in South African waters. *Behaviour* **140**, 1469-1494.

Best, P.B. 2003. The Whalers of Saldanha Bay. *Cape Odyssey* 3(5)(#260), 4.

Bester, M.N., Ryan, P.G. & Dyer, B. 2003. Population numbers of fur seals at Prince Edward Island, Southern Ocean. *African Journal of Marine Science* **25**, 549-554.

Brodsgaard, C.J., Hansen, H., Kryger, P., Nicolaisen, M. 2003. The presence of *Paenibacillus larvae larvae* spores in sub-Saharan African honey. Proceedings of the Nordic-Baltic Apicultural Research Symposium. Editor C.J. Brodsgaard. At Bjerringbro, Denmark.

Broomhall, L.S., Mills, M.G.L. & du Toit, J.T. 2003. Home range and habitat use by cheetahs in the Kruger National Park. *Journal of Zoology* **261**, 1-10.

Bronner, G.N., Hoffmann, M., Taylor, P.J., Chimimba, C.T., Best, P.B., Matthee, C.A. & Robinson, T.J. 2003. A revised systematic checklist of the extant mammals of the southern African subregion. *Durban Museum Novitates* **28**, 56-106.

Byrne, M., Dacke, M., Nordström, Scholtz, C. & Warrant, E. 2003. Visual cues used by ball-rolling dung beetles for orientation. *J. Comp. Physiol. A* **189**, 411-418.

Cameron, E.Z., Linklater, W.L., Stafford, K.J. & Minot, E.O. 2003. Social grouping and maternal behaviour in feral horses (*Equus caballus*): the influence of males on maternal protectiveness. *Behavioural Ecology and Sociobiology* **53**, 92-101.

Caron, A., Cross, P.C. and du Toit, J.T. 2003. Ecological implications of bovine tuberculosis in African buffalo herds. *Ecological Applications* **13**(5), 1338-1345.

Cassens, I., Van Waerebeek, K., Best, P.B., Crespo, E.A., Reyes, J. & Milinkovitch, M.C. 2003. The phylogeography of dusky dolphins (*Lagenorhynchus obscurus*): a critical examination of network methods and rooting procedures. *Molecular Ecology* **12**, 1781-1792.

Chown, S.L. & Davis, A.L.V. 2003. Discontinuous gas exchange and the significance of respiratory water loss in scarabaeine beetles. *Journal of Experimental Biology* **206**, 3547-3556.

Chown, S.L., van Rensburg, B.J., Gaston K.J., Rodrigues, A.S.L. & van Jaarsveld, A.S. 2003. Species richness, human population size and energy: conservation implications at a national scale. *Ecological Applications* **13**, 1233-1241.

Craemer, C. & Hall, A.N. 2003. The use of low-temperature scanning electron microscopy for studying eriophyoid mites (Acari: Eriophyoidea). Proceedings of the 42<sup>nd</sup> Annual Conference of the Microscopy Society of Southern Africa, Publisher: Microscopy Society of Southern Africa. ISBN 0-620-31180-0, page 76, total pages in book 88.

Crawford, R.J.M., Cooper, J., Dyer, B.M., Greyling, M.D., Klages, N.T.W., Ryan, P.G., Petersen, S.L., Underhill, L.G., Upfold, L., Wilkinson, W., De Villiers, M.S., Du Plessis, S., Du Toit, M., Leshoro, T.M., Makhado, A.B., Mason, M.S., Merkle, D., Tshingana, D., Ward, V.L. & Wittington, P.A. 2003. Populations of surface-nesting seabirds at Marion Island, 1994/95-2002/03. *Afr. J. mar. Sci.* **25**, 427-440.

Crawford, R.J.M., Cooper, J., Du Toit, M., Greyling, M.D., Hanise, B., Holness, C.L., Keith, D.G., Nel, J.L., Petersen, S.L., Spencer, K., Tshingana, D. & Wolvaardt, A.C. 2003. Population and breeding of the Gentoo Penguin *Pygoscelis papua* at Marion Island, 1994/95-2002/03. *Afr. J. mar. Sci.* **25**, 463-474.

Crawford, R.J.M., Cooper, J., Dyer, B.M., Greyling, M.D., Klages, N.T.W., Nel, D.C., Nel, J.L., Petersen, S.L. & Wolfaardt, A.C. 2003. Decrease in numbers of the Eastern Rockhopper Penguin *Eudyptes chrysocome filholi* at Marion Island. *Afr. J. mar. Sci.* **25**, 487-498.

Crawford, R.J.M., Cooper, J., Dyer, B.M., Wolfaardt, A.C., Tshingana, D., Spencer, K., Petersen, S.L., Nel, J.L., Keith, D.G., Holness, C.L., Hanise, B., Greyling, M.D. & Du Toit, M. 2003. Population, breeding, diet and conservation of the Crozet Shag *Phalacrocorax (Atriceps) melanogenis* at Marion Island, 1994/95-2002/03. *Afr. J. mar. Sci.* **25**, 537-547.

Crawford, R.J.M., Underhill, L.G., Bester, M.N., Cooper, J., Greyling, M.D., Meÿer, M.A., Petersen, S.L., Ryan, P.G. & Wilkinson, W. 2003. The Prince Edward Islands Millennium Expedition. *South African Journal of Science* **99**, 407-409.

Dacke, M., Nordström & Scholtz, C.H. 2003. Twilight orientation to polarized light in the crepuscular dung beetle *Scarabaeus zambesianus*. *Journal of Experimental Biology* **206**, 1535-1543.

Dacke, M., Nilsson, D-E., Scholtz, C.H., Byrne, M. & Warrant, E.J. 2003. Insect orientation to polarized moonlight. *Nature* **424**, 33.

Dalebout, M.L., Ross, G.J.B., Baker, C.S., Anderson, R.C., Best, P.B., Cockcroft, V.G., Hinsz, H.L., Peddemors, V. & Pitman, R.L. 2003. Appearance, distribution and genetic distinctiveness of Longman's beaked whale, *Indopacetus pacificus*. *Marine Mammal Science* **19**, 421-461.

Davis, A.L.V., van Aarde, R.J., Scholtz, C.H. & Delport, J.H. 2003. Convergence between dung beetle assemblages of a post-mining vegetational chronosequence and unmined dune forest. *Restoration Ecology* 11(1), 29-42.

De Bruyn, P.J.N., Bester, M.N., Mecenero, S., Kirkman, S.P., Roux, J-P. & Klages, N.T.W. 2003. Temporal variation of cephalopods in the diet of Cape fur seals in Namibia. *S. Afr. J. Wildl. Res.* **33**, 85-96.

De Graaf, J., Schoeman, A.S. & Brandenburg, R.L. 2003. Ecology and control of *Neosorius brevipennis* (Coleoptera: Staphylinidae) on turfgrass in South Africa. *Florida Entomologist* **86**, 370-372.

De Villiers, M.S., Richardson, P.R.K. & van Jaarsveld, A.S. 2003. Patterns of coalition formation and spatial association in a social carnivore, the African wild dog (*Lycaon pictus*). *Journal of Zoology, London* **260**, 377-389.

Du Toit, J.T. & Fritz, H. 2003. Size matters: body size diversity and resource use efficiency in ungulate guilds. Pages 499-501 in: N. Allsopp, A.R. Palmer, S.J. Milton, K.P. Kirkman, G.I.H. Kerley, C.R. Hurt, and C.J. Brown (eds.) *Proceedings of the VII<sup>th</sup> International Rangelands Congress, July/August 2003, Durban, South Africa*. Document Transformation Technologies, Irene, South Africa.

Du Toit, J.T., Rogers, K.H. & Biggs, H.C. (eds.) 2003. *The Kruger Experience: Ecology and Management of Savanna Heterogeneity*. Island Press, Washington, DC.

Du Toit, J.T. 2003. Large herbivores and savanna heterogeneity. In: J.T. du Toit, H. Biggs and K. Rogers (eds.) *The Kruger Experience: Ecology and Management of Savanna Heterogeneity*. Island Press, Washington, DC.

Eigenheer, R.A., Wiehart, U.I.M., Nicolson, S.W., Schoofs, L., Schegg, K.M., Hull, J.J. & Schooley, D.A. 2003. Isolation, identification and localization of a second beetle antidiuretic peptide. *Peptides* **24**, 27-34.

Ferguson, J.W.H., van Jaarsveld, A.S., Johnson, R., Bredenkamp, G.J., Foord, S.H. & Britz, M. 2003. Rodent-induced damage to pine plantations: a South African case study. *Agriculture, Ecosystems & Environment* **95**, 379-386.

Fleming, P.A. & Loveridge, J.P. 2003. Miombo woodland termite mounds: resource islands for small vertebrates? *Journal of Zoology, London* **259**, 161-168.

Fleming, P.A. & Nicolson, S.W. 2003. Arthropod fauna of mammal-pollinated *Protea humiflora*: ants as an attractant for insectivore pollinators? *African Entomology* **11**, 9-14.

Fleming, P.A. & Nicolson, S.W. 2003. Osmoregulation in an avian nectarivore, the whitebellied sunbird *Nectarinia talatala*: response to extremes of diet concentration. *Journal of Experimental Biology* **206**, 1845-1854.

Fleming, P.A. & Nicolson, S.W. 2003. Nectar as food for birds: the physiological consequences of drinking dilute sugar solutions. *Plant Systematics and Evolution* **238**, 139-153.

Foord, S.H., Ferguson, J.W.H. & van Jaarsveld, A.S. 2003. Coleopteran assemblages in Afrotropical grasslands reflect fine-scale variation in vegetation. *Environmental Entomology* **32**, 797-806.

Frolov, A.V. & Scholtz, C.H. 2003. Revision of the Afrotropical dung beetle genus *Sarophorus* Erichson (Coleoptera, Scarabaeidae). *African Entomology* **11**, 183-198.

Frolov, A.V. & Scholtz, C.H. 2003. A new genus and species of dung beetle from southern Namibia (Coleoptera: Scarabaeidae: Scarabaeinae). *African Entomology* **11**, 297-299.

Funston, P.J., Mills, M.G.L., Richardson, P.R.K. & van Jaarsveld, A.S. 2003. Reduced dispersal and opportunistic territory acquisition in male lions (*Panthera leo*). *Journal of Zoology, London* **259**, 131-142.

Grebennikov, V.V. & Scholtz, C.H. 2003. Larvae and pupae of Dascillidae (Coleoptera): morphological study and discussion of their relationships to Scarabaeoidea and Eulichadidae. *Insect Syst. Evol.* **34**(1), 29-39.

Griffin, A.S., Pemberton, J.M., Brotherton, P.N.M., McIlrath, G., Gaynor, D., Kinsky, R., O'Riain, J. & Clutton-Brock, T.H. 2003. A genetic analysis of breeding success in the cooperagative meerkat (*Suricata suricatta*). *Behavioural Ecology* **14**, 472-480.

Hansen, H., Brodsgaard, C.J., Kryger, P. & Nicolaisen, M. 2003. A scientific note on the presence of *Paenibacillus larvae larvae* spores in sub-Saharan African honey. *Apidologie* **34**, 471-472.

Harrison, J. du G. & Philips, T.K. 2003. Phylogeny of *Scarabaeus (Pachysoma MacLeay)* stat. nov., and related flightless Scarabaeini (Scarabaeidae: Scarabaeinae). *Annals of the Transvaal Museum* **40**, 45-71.

Harrison, J. du G., Scholtz, C.H. & Chown, S.L. 2003. A revision of the endemic south-western African dung beetle subgenus *Scarabaeus (Pachysoma)* MacLeay, including notes on other flightless Scarabaeini (Scarabaeidae: Scarabaeinae). *Journal of Natural History* **37**, 305-355.

Harvey, M.L., Mansell, M.W., Villet, M.H. et al. 2003. Molecular identification of some forensically important blowflies of southern Africa and Australia. *Medical and Veterinary Entomology* **17**(4), 363-369.

Human, H. & Nicolson, S.W. 2003. Digestion of maize and sunflower pollen by the spotted maize beetle *Astylus atromaculatus* (Melyridae): is there a role for osmotic shock? *Journal of Insect Physiology* **49**, 633-643.

Hunter, L.T.B. & Skinner, J.D. 2003. Do male cheetahs *Acinonyx jubatus* commit infanticide? *Transactions of the Royal Society of South Africa* **58**(1), 79-82.

Jackson, T.P. & van Aarde, R.J. 2003. Advances in vertebrate pest control: implications for the control of feral house mice on Marion Island. *South African Journal of Science* **99**, 130-136.

Jackson, T.P. & van Aarde, R.J. 2003. Sex- and species-specific growth patterns in the cryptic African rodents, *Mastomys natalensis* and *Mastomys coucha*. *Journal of Mammalogy* **84**, 851-860.

Jacobs, D.H. 2003. The behaviour of a multiple sex chromosome system in *Dundocoris flavilineatus* (Heteroptera: Aradidae: Carventinae) that originated by autosome-sex chromosome fusion. *Folia biologica (Krakow)* **51**, 23-32.

Jacobs, D.H. 2003. Cytogenetics of the genus *Dundocoris* Hoberlandt (Heteroptera, Aradidae, Carventinae) where chromosome fusion played the dominant role in karyotype evolution. *Caryologia* **56**(3), 233-252.

Janse van Rensburg, L.J., Bennett, N.C., van der Merwe, M., Schoeman, A.S. & Brinders, J. 2003. Are non-reproductive male highveld mole-rats, *Cryptomys hottentotus pretoriae* physiologically suppressed while in the confines of the natal colony? *Journal of Zoology* **260**, 73-78.

Janse van Rensburg, L., Chimimba, C.T., Bastos, A.D. & Chown, S.L. 2003. Morphometric measurement selection: an invertebrate case study based on weevils from Marion Island. *Polar Biology* **27**, 38-49.

Kaunda, S.K.K. & Skinner, J.D. 2003. Black-backed jackal diet at Mokolodi Nature Reserve, Botswana. *African Journal of Ecology* **41**, 39-46.

King, D.P., Reid, S.M., Hutchings, G.H., Grierson, S.S., Wilkinson, P.J., Dixon, L.K., Bastos, A.D.S. & Drew, T.W. 2003. Development of a Taqman® PCR assay with internal amplification control for the detection of African swine fever virus. *Journal of Virological Methods* **107**, 53-61.

Kirkman, S.P., Bester, M.N., Makhado, A.B. & Pistorius, P.A. 2003. Female attendance behaviour of Antarctic fur seals at Marion Island. *Afr. Zool.* **38**, 402-405.

Kirkman, S.P., Bester, M.N., Pistorius, P.A., Hofmeyr, G.J.G., Jonker, F.C., Owen, R. & Strydom, N. 2003. Variation in the timing of moult in southern elephant seals at Marion Island. *South African Journal of Wildlife Research* **33**, 79-84.

Knobel, D.L. & du Toit, J.T. 2003. The influence of pack social structure on oral rabies vaccination coverage in captive African wild dogs (*Lycaon pictus*). *Applied Animal Behaviour Science* **80**, 61-70.

Knobel, D.L., Liebenberg, A. & Du Toit, J.T. 2003. Seroconversion in captive African wild dogs (*Lycaon pictus*) following administration of a chicken head bait/SAG-2 oral rabies vaccine combination. *Onderstepoort Journal of Veterinary Research* **70**, 73-77.

Krecek, T. 2003. The Cysticercosis Working Group in Eastern and Southern Africa meets again. Letter to the Editor. *J.S.Afr.vet.Ass. (Tydskr.S.Afr.vet.Ver.)* **74**, 62.

Laenen, B., Wiehart, U., De Decker, N., Steels, P. & Van Kerkhove, E. 2003. Body extracts from the forest ant and honeybee: chromatographic comparison of factors affecting the ant Malpighian tubule. *Physiological Entomology* **28**, 306-314.

Linzey, A.V., Kesner, M.H., Chimimba, C.T. & Newbery, C. 2003. Distribution of veld rat sibling species *Aethomys chrysophilus* and *Aethomys ineptus* (Rodentia: Muridae) in southern Africa. *African Zoology* **38**, 169-174.

Lotz, C.N., Martinez del Rio, C. & Nicolson, S.W. 2003. Hummingbirds pay a high cost for a warm drink. *J. Comp. Physiol. B* **173**, 455-462.

Mafojane, N.A., Appleton, C.C., Krecek, R.C., Michael, L.M. & Willingham, A.L. 2003. The current status of neurocysticercosis in Eastern and Southern Africa. *Acta Tropica* **87**, 25-33.

Malherbe, G.P., Bennett, N.C. & Schoeman, A.S. 2003. The reproductive biology and postnatal development of the highveld mole-rat, *Cryptomys hottentotus pretoriae* (Rodentia: Bathyergidae). *African Zoology* **38**, 161-167.

Malherbe, G., Bennett, N.C. & Schoeman, A.S. 2003. Foraging in the subterranean social highveld mole-rat, *Cryptomys hottentotus pretoriae*: an investigation into size-dependent geophyte utilization and foraging patterns. *Journal of Zoology, London* **260**, 219-225.

McMahon, C.R., Burton, H.R. & Bester, M.N. 2003. A demographic comparison of two southern elephant seal populations. *Journal of Animal Ecology* **72**, 61-74.

McMahon, C.R. & Hindell, M.A. 2003. Twinning in southern elephant seals: the implications of resource allocation by mothers. *Wildlife Research* **30**, 35-39.

Medina, C.A., Scholtz, C.H. & Gill, B.D. 2003. Morphological variation and systematics of *Canthon Hoffmanssegg 1817*, and related general of new world *Canthonini* dung beetles (Coleoptera, Scarabaeinae). *Mitt. Mus. Nat.kd. Berl., Dtsch. Entomol. Z.* **50**, 23-68.

Mellet, M.A., Schoeman, A.S. & Broodryk, S.W. 2003. Review of insect pest management strategies for the organic cultivation of cotton. *African Plant Protection* **9**, 61-86.

Meyer, V.W., Crewe, R.M. & Braack, L.E.O. 2003. Estimates of food consumption in a South African savanna-woodland. *South African Journal of Science* **99**, 207-208.

Moritz, R.F.A., Pflugfelder, J. & Crewe, R.M. 2003. Lethal fighting between honeybee queens and parasitic workers (*Apis mellifera* L.). *Naturwissenschaften* **90**, 378-381.

Naiman, R.J., Braack, L.E.O., Grant, R., Kemp, A., du Toit, J.T. and Venter, F. 2003. Interactions between species and ecosystem characteristics. In: J.T. du Toit, H. Biggs and K. Rogers (eds.) *The Kruger Experience: Ecology and Management of Savanna Heterogeneity*. Island Press, Washington, DC.

Negróni, J., Bennett, N.C. & Cooper, H.M. 2003. Organisation of the circadian system in the subterranean mole rat, *Cryptomys hottentotus* (Bathyergidae). *Brain Research* **967**, 48-62.

Nicolson, S.W. & Fleming, P.A. 2003. Energy balance in the White-bellied sunbird, *Nectarinia talatala*: constraints on compensatory feeding, and consumption of supplementary water. *Functional Ecology* **17**, 3-9.

Nicolson, S.W. & Fleming, P.A. 2003. Nectar as food for birds: the physiological consequences of drinking dilute sugar solutions. *Plant Systematics and Evolution* **238**, 139-153.

Olwoch, J.M., Rautenbach, J. de W., Erasmus, B.F.N., Engelbrecht, F.A. & van Jaarsveld, A.S. 2003. Simulating tick distributions over sub-Saharan Africa: the use of observed and simulated climate surfaces. *Journal of Biogeography* **30**, 1221-1232.

Oosthuizen, M.K., Cooper, H.M. & Bennett, N.C. (2003). Circadian rhythms of locomotor activity in solitary and social species of African mole-rats (Family: Bathyergidae). *Journal of Biological Rhythms* **18**(6), 481-490.

Parr, C.L. & Chown, S.L. 2003. Burning issues for conservation: A critique of faunal fire research in Southern Africa. *Austral Ecology* **28**, 384-395.

Parr, Z.J.E., Parr, C.L. & Chown, S.L. 2003. The size-grain hypothesis: a phylogenetic and field test. *Ecological Entomology* **28**, 475-481.

Parr, C.L., Robertson, H.G. & Chown, S.L. 2003. Apomyrminae and Aenictogitoninae: two new subfamilies of ant (Hymenoptera: Formicidae) for southern Africa. *African Entomology* **11**(1), 128-129.

Phiri, I., Ngowi, H., Afonso, S., Matenga, E., Boa, M., Mukaratirwa, S., Githigia, S., Saimo, M., Sikasunge, C., Maingi, N., Lubega, G., Kassuku, A., Michael, L., Siziya, S., Krecek, R.C., Noormahomed, E., Vilhena, M. & Willingham, L. 2003. The emergence of *Taenia solium* Cysticercosis in Eastern and Southern Africa as a serious agricultural problem and public health risk. *Acta Tropica* **87**, 13-23.

Richter, T.A., Malpaux, B., Fleming, P.A., Molteno, A.J. & Bennett, N.C. 2003. Melatonin secretion in a strictly subterranean mammal, the Damaraland mole-rat (*Cryptomys damarensis*). *Journal of Zoology, London* **261**, 313-319.

Robertson, M.P., Villet, M.H., Fairbanks, D.H.K. *et al.* 2003. A proposed prioritization system for the management of invasive alien plants in South Africa. *South African Journal of Science* **99**(1-2), 37-43.

Russell, A.F., Brotherton, P.N.M., McIlrath, G.M., Sharpe, L.L. & Clutton-Brock, T.H. 2003. Breeding success in cooperative meerkats: effects of helper number and maternal state. *Behavioral Ecology* **14**, 486-492.

Ryan, P.G., Cooper, J.C., Dyer, B.M., Underhill, L.G., Crawford, R.J.M. & Bester, M.N. 2003. Counts of surface-nesting seabirds breeding at Prince Edward Island, summer 2001-02. *Afr. J. mar. Sci.* **25** 555-562.

Sangare, O., Bastos, A.D.S., Venter, E.H. & Vosloo, W. 2003. Retrospective genetic analysis of SAT-1 type foot-and-mouth disease outbreaks in West Africa (1975-1981). *Veterinary Microbiology* **93**, 279-289.

Solomon, M., van Jaarsveld, A.S., Biggs, H.C. & Knight, M.H. 2003. Conservation targets for "viable" species assemblages? *Biodiversity and Conservation* **12**, 2435-2441.

Thackeray, J.F., van de Venter, A., Lee-Thorp, J.A., Chimimba, C.T. & van Heerden, J. 2003. Stable carbon isotope analysis of modern and fossil samples of the South African rodent *Aethomys namaquensis*. *Annals of the Transvaal Museum* **40**, 43-46.

Thomson, G., Dungu, B., Tounkara, K., Vosloo, W., Bastos, A. & Bidjeh, K. 2003. Suitability of currently available vaccines for controlling the major transboundary diseases that afflict sub-Saharan Africa. In: Brown F, Roth J, editors. *Vaccines for OIE List A and Emerging Diseases*. Basel: Karger, pp 229-241.

Thomson, G.R., Vosloo, W. & Bastos, A.D.S. 2003. Foot and mouth disease in wildlife. *Virus Research* **91**, 145-161.

Thomson, G.R., Vosloo, W. & Bastos, A.D.S. 2003. The epidemiology and control of foot-and-mouth disease in sub-saharan Africa. In: Dodet, B, Vicari M Eds. *Foot-and-Mouth Disease: control strategies*. Paris: Elsevier, p 125-134.

Van der Merwe, S.W., Malherbe, G., Schnitzler, C.M. & Hough, S. 2003. Hepatic osteodystrophy induced by experimental portasystemic shunting in the rat can be partially ameliorated by rapamycin administration. *Journal of Hepatology* **38**(S2), 72.

Veldtman, R. & McGeoch, M.A. 2003. Gall-forming insect species richness along a non-scleromorphic vegetation rainfall gradient in South Africa: The importance of plant community composition. *Austral Ecology* **28**, 1-13.

Warren, M., McGeoch, M.A. & Chown, S.L. 2003. Predicting abundance from occupancy: a test for an aggregated insect assemblage. *Journal of Animal Ecology* **72**, 468-477.

Weiermans, J. & van Aarde, R.J. 2003. Roads as ecological edges for rehabilitating coastal dune assemblages in northern KwaZulu-Natal, South Africa. *Restoration Ecology* **11**(1), 43-49.

Wessels, K.J., Reyers, B., van Jaarsveld, A.S. & Rutherford, M.C. 2003. Identification of potential conflict areas between land transformation and biodiversity conservation in north-eastern South Africa. *Agriculture, Environment and Ecosystems* **95**, 157-178.

Whiting M. J., Nagy K. & Bateman P. W. (2003). Evolution and maintenance of social status-signaling badges: experimental manipulations in lizards. In: *Lizard Social Behavior* (Eds. S.F. Fox, J.K. McCoy & T.A. Baird). John Hopkins University Press, Baltimore.

Wiehart, U.I.M., Nicolson, S.W. & Van Kerkhove, E. 2003.  $K^+$  transport in Malpighian tubules of *Tenebrio molitor* L.: a study of electrochemical gradients and basal  $K^+$  uptake mechanisms. *Journal of Experimental Biology* **206**, 949-957.

Wiehart, U.I.M., Klein, G., Steels, P., Nicolson, S.W. & Van Kerkhove, E. 2003.  $K^+$  transport in Malpighian tubules of *Tenebrio molitor* L.: is a  $K_{ATP}$  channel involved? *Journal of Experimental Biology* **206**, 959-965.

Wiehart, U.I.M., Nicolson, S.W. & Van Kerkhove, E. 2003. The effects of endogenous diuretic and antidiuretic peptides and their second messengers in the malpighian tubules of *Tenebrio molitor*: an electrophysiological study. *Journal of Insect Physiology* **49**, 955-965.

Zapata, F.A., Gaston, K.J. & Chown, S.L. 2003. Mid-domain models of species richness gradients: assumptions, methods and evidence. *Journal of Animal Ecology* **72**, 677-690.