

SUBJECT INDEX

	Volume	Page
<b>Abomasum</b>		
A comparative histological study of the number and size of the myenteric ganglia and neurones in the fore-stomach and abomasum of grey, white and black Karakul lambs. H. B. GROENEWALD and K. K. BOOTH .....	59	103-106
Scanning electron microscopy of the mucosal surface of the forestomachs and abomasa of grey, white and black Karakul lambs. H. B. GROENEWALD .....	59	167-174
A comparative study of the thickness of the tunica muscularis in the forestomach and abomasum of grey, white and black Karakul lambs. H. B. GROENEWALD and K. K. BOOTH.....	59	225-227
<b>Aegyptianella botuliformis</b>		
Description of <i>Aegyptianella botuliformis</i> n. sp. (Rickettsiales: Anaplasmataceae) from the helmeted guinea-fowl, <i>Numida meleagris</i> . F. W. HUCHZERMEYER, I. G. HORAK, J. F. PUTTERILL and R. A. EARLÉ .....	59	97-101
<b>African horsesickness</b>		
Production and properties of monoclonal antibodies against African horsesickness virus, serotype 3. W. VAN WYNGAARDT, D. H. DU PLESSIS, SANDRA VAN WYNGAARDT and J. A. VERSCHOOR .....	59	129-133
<b>Albizia versicolor</b>		
Experimental <i>Albizia versicolor</i> poisoning in sheep and its successful treatment with pyridoxine hydrochloride. B. GUMMOW, STELLA S. BASTIANELLO, LEONIE LABUSCHAGNE and G. L. ERASMUS .....	59	111-118
<b>Amblyomma hebraeum</b>		
Adult <i>Amblyomma hebraeum</i> burdens and heartwater endemic stability in cattle. J. L. DU PLESSIS, P. J. LOOCK and C. J. F. LÜDEMANN.....	59	75-89
<b>Anaplasmataceae</b>		
Description of <i>Aegyptianella botuliformis</i> n. sp. (Rickettsiales: Anaplasmataceae) from the helmeted guinea-fowl, <i>Numida meleagris</i> . F. W. HUCHZERMEYER, I. G. HORAK, J. F. PUTTERILL and R. A. EARLÉ .....	59	97-101
<b>Anaplasmosis</b>		
Anaplasmosis in Uganda. III. Parasitological and serological evidence of <i>Anaplasma</i> infection in Ugandan goats. G. S. Z. SSENIONGA, I. KAKOMA, J. P. NYEKO, R. BUGA and R. HANSEN .....	59	161-162
<b>Antibodies</b>		
Production and properties of monoclonal antibodies against African horsesickness virus, serotype 3. W. VAN WYNGAARDT, D. H. DU PLESSIS, SANDRA VAN WYNGAARDT and J. A. VERSCHOOR .....	59	129-133
Incidence of feline immunodeficiency virus reactive antibodies in free-ranging lions of the Kruger National Park and the Etosha National Park in southern Africa detected by recombinant FIV p24 antigen. J. A. SPENCER, A. A. VAN DIJK, M. C. HORZINEK, H. F. EGBERINK, R. G. BENGIS, D. F. KEET, S. MORIKAWA and D. H. L. BISHOP .....	59	315-322
<b>Antigen</b>		
Incidence of feline immunodeficiency virus reactive antibodies in free-ranging lions of the Kruger National Park and the Etosha National Park in southern Africa detected by recombinant FIV p24 antigen. J. A. SPENCER, A. A. VAN DIJK, M. C. HORZINEK, H. F. EGBERINK, R. G. BENGIS, D. F. KEET, S. MORIKAWA and D. H. L. BISHOP .....	59	315-322
<b>Arthropod parasites</b>		
Arthropod parasites of springbok, gemsbok, kudu, giraffes and Burchell's and Hartmann's zebras in the Etosha and Hardap Nature Reserves, Namibia. I. G. HORAK, M. ANTHONISSEN, R. C. KRECEK and J. BOOMKER .....	59	253-257
<b>Babesia trautmanni</b>		
The transovarial transmission of <i>Babesia trautmanni</i> by <i>Rhipicephalus simus</i> to domestic pigs. D. T. DE WAAL, LAURA M. LOPEZ REBOLLAR and F. T. POTGIETER.....	59	219-221
<b>Birds</b>		
A host-parasite catalogue of the haematozoa of the sub-Saharan birds. G. F. BENNETT, R. A. EARLÉ, HESTER DU TOIT and F. W. HUCHZERMEYER .....	59	1-73
The Leucocytozoidae of South African birds: Caprimulgidae, Columbidae, Gruidae and Spheniscidae. G. F. BENNETT, R. A. EARLÉ and M. A. PEIRCE.....	59	229-234
The Leucocytozoidae of South African birds: Passeriformes. G. F. BENNETT, R. A. EARLÉ and M. A. PEIRCE.....	59	235-247
<b>Bluetongue</b>		
Serological differentiation of five bluetongue virus serotypes in indirect ELISA. D. H. DU PLESSIS.....	59	119-122
<b>Body water turnover rate</b>		
The effects of salt loading via two different routes on feed intake, body water turnover rate and electrolyte excretion in sheep. R. A. MEINTJES and ROELINA OLIVIER .....	59	91-96
<b>Bontebok</b>		
Parasites of South African wildlife. XIII. Helminths of grey rhebuck, <i>Pelea capreolus</i> , and of bontebok, <i>Dama-liscus dorcas dorcas</i> , in the Bontebok National Park. J. BOOMKER and I. G. HORAK.....	59	175-182

**Burchell's zebra**

Arthropod parasites of springbok, gemsbok, kudu, giraffes and Burchell's and Hartmann's zebras in the Etosha and Hardap Nature Reserves, Namibia. I. G. HORAK, M. ANTHONISSEN, R. C. KRECEK and J. BOOMKER ..... 59 253–257

**Caprimulgidae**

The Leucocytozoidae of South African birds: Caprimulgidae, Columbidae, Gruitidae and Spheniscidae. G. F. BENNETT, R. A. EARLE and M. A. PEIRCE ..... 59 229–234

**Cardiac changes**

*Galenia africana* L. poisoning in sheep and goats: hepatic and cardiac changes. J. J. VAN DER LUGT, R. ANITRA SCHULTZ, N. FOURIE, L. J. HON, P. JORDAAN and LEONIE LABUSCHAGNE ..... 59 323–333

**Cardiotoxicity**

Cardiotoxicity of the skin of the red-banded rubber frog, *Phrynomerus bifasciatus* (Smith 1847). M. P. K. VAN DER WALT, J. M. VAN ROOYEN, G. OBERHOLZER and G. VAN ASWEGEN ..... 59 107–109

**Cattle**

Adult *Amblyomma hebraeum* burdens and heartwater endemic stability in cattle. J. L. DU PLESSIS, P. J. LOOCK and C. J. F. LÜDEMANN ..... 59 75–89

A survey of cattle tick control practices in the eastern Cape Province of South Africa. A. M. SPICKETT and B. H. FIVAZ ..... 59 203–210

**Ceratopogonidae**

Afrotropical *Culicoides*: *C. (Avaritia) loxodontis* sp. nov., a new member of the Imicola group (Diptera: Ceratopogonidae) associated with the African elephant in the Kruger National Park, South Africa. R. MEISWINKEL ... 59 145–160

Subsampling of large light trap catches of *Culicoides* (Diptera: Ceratopogonidae). H. VAN ARK and R. MEISWINKEL ..... 59 183–189

**Cestrum laevigatum**

Experimentally-induced *Cestrum laevigatum* (Schiechtd.) poisoning in sheep. J. J. VAN DER LUGT, P. W. NEL and J. P. KITCHING ..... 59 135–144

**Columbidae**

The Leucocytozoidae of South African birds: Caprimulgidae, Columbidae, Gruitidae and Spheniscidae. G. F. BENNETT, R. A. EARLE and M. A. PEIRCE ..... 59 229–234

**Copper chelators**

Evaluation of the efficacy of d-penicillamine and trientine as copper chelators using an *in vitro* technique involving ovine red blood cells. C. J. BOTHA, T. W. NAUDE, G. E. SWAN and A. J. GUTHRIE ..... 59 191–195

**Cowdria ruminantium**

Flow cytometric analysis of T cell response in mice infected with *Cowdria ruminantium*. J. L. DU PLESSIS, C. GRAY and M. F. VAN STRIJP ..... 59 337–338

**Crocodile**

Bioactive peptides and serotonin in the gut endocrine cells of the crocodile, *Crocodylus niloticus* (Laurenti 1768): an immunocytochemical study. G. VAN ASWEGEN, SANET H. KOTZÉ, N. J. VAN DER MERWE and G. A. SMITH ..... 59 123–127

A light microscopical study of the intestinal tract of the Nile crocodile, *Crocodylus niloticus*, (Laurenti 1768). SANET H. KOTZÉ, N. J. VAN DER MERWE, G. VAN ASWEGEN and G. A. SMITH ..... 59 249–252

**Crocodylus niloticus**

Bioactive peptides and serotonin in the gut endocrine cells of the crocodile, *Crocodylus niloticus* (Laurenti 1768): an immunocytochemical study. G. VAN ASWEGEN, SANET H. KOTZÉ, N. J. VAN DER MERWE and G. A. SMITH ..... 59 123–127

A light microscopical study of the intestinal tract of the Nile crocodile, *Crocodylus niloticus* (Laurenti 1768). SANET H. KOTZÉ, N. J. VAN DER MERWE, G. VAN ASWEGEN and G. A. SMITH ..... 59 249–252

**Culicoides**

Afrotropical *Culicoides*: *C. (Avaritia) loxodontis* sp. nov., a new member of the Imicola group (Diptera: Ceratopogonidae) associated with the African elephant in the Kruger National Park, South Africa. R. MEISWINKEL ... 59 145–160

Subsampling of large light trap catches of *Culicoides* (Diptera: Ceratopogonidae). H. VAN ARK and R. MEISWINKEL ..... 59 183–189

**Damaliscus dorcas dorcas**

Parasites of South African wildlife. XIII. Helminths of grey rhebuck, *Pelea capreolus*, and of bontebok, *Damaliscus dorcas dorcas*, in the Bontebok National Park. J. BOOMKER and I. G. HORAK ..... 59 175–182

**Diptera**

Afrotropical *Culicoides*: *C. (Avaritia) loxodontis* sp. nov., a new member of the Imicola group (Diptera: Ceratopogonidae) associated with the African elephant in the Kruger National Park, South Africa. R. MEISWINKEL ... 59 145–160

Subsampling of large light trap catches of *Culicoides* (Diptera: Ceratopogonidae). H. VAN ARK and R. MEISWINKEL ..... 59 183–189

A new species of *Lipoptena* (Diptera: Hippoboscidae) from southern Africa. ELIZE J. VISAGIE ..... 59 293–302

The louse fly *Lipoptena paradoxa* Newstead, 1907 (Diptera: Hippoboscidae): description of its adult and puparium and biology in South Africa. ELIZE J. VISAGIE, I. G. HORAK and J. BOOMKER ..... 59 303–314

	Volume	Page
<b>Dissections of bovine head</b>		
Deep dissections of the veins of the bovine head: unpublished work by Prof. J. M. W. le Roux (1926–1991). MALIE M. S. SMUTS and A. J. BEZUIDENHOUT.....	59	211–218
<b>Dissections of veins</b>		
Deep dissections of the veins of the bovine head: unpublished work by Prof. J. M. W. le Roux (1926–1991). MALIE M. S. SMUTS and A. J. BEZUIDENHOUT.....	59	211–218
<b>DNA hybridization</b>		
Characterization of ovine strains of <i>Mycobacterium paratuberculosis</i> restriction endonuclease analysis and DNA hybridization. G. W. DE LISLE, D. M. COLLINS and H. F. A. K. HUCHZERMAYER .....	59	163–165
<b>D-penicillamine</b>		
Evaluation of the efficacy of d-penicillamine and trientine as copper chelators using an <i>in vitro</i> technique involving ovine red blood cells. C. J. BOTHA, T. W. NAUDÉ, G. E. SWAN and A. J. GUTHRIE .....	59	191–195
<b>Drag-sampling</b>		
The effect of veld-burning on the seasonal abundance of free-living ixodid ticks as determined by drag-sampling. A. M. SPICKETT, I. G. HORAK, ANDREA VAN NIEKERK and L. E. O. BRAACK .....	59	285–292
<b>Ectoparasites</b>		
Parasites of domestic and wild animals in South Africa. XXX. Ectoparasites of kudus in the eastern Transvaal Lowveld and the eastern Cape Province. I. G. HORAK, J. BOOMKER, A. M. SPICKETT and V. DE VOS.....	59	259–273
<b>Electrolyte excretion</b>		
The effects of salt loading via two different routes on feed intake, body water turnover rate and electrolyte excretion in sheep. R. A. MEINTJES and ROELINA OLIVIER .....	59	91–96
<b>Elephant</b>		
Afrotropical <i>Culicoides</i> : <i>C. (Avaritia) loxodontis</i> sp. nov., a new member of the <i>Imicola</i> group (Diptera: Ceratopogonidae) associated with the African elephant in the Kruger National Park, South Africa. R. MEISWINKEL ...	59	145–160
<b>Endocrine cells</b>		
Bioactive peptides and serotonin in the gut endocrine cells of the crocodile, <i>Crocodylus niloticus</i> (Laurenti 1768): an immunocytochemical study. G. VAN ASWEGEN, SANET H. KOTZÉ, N. J. VAN DER MERWE and G. A. SMITH.....	59	123–127
<b>ELISA</b>		
Serological differentiation of five bluetongue virus serotypes in indirect ELISA. D. H. DU PLESSIS .....	59	119–122
<b>Feed intake</b>		
The effects of salt loading via two different routes on feed intake, body water turnover rate and electrolyte excretion in sheep. R. A. MEINTJES and ROELINA OLIVIER .....	59	91–96
<b>Feline immunodeficiency virus</b>		
Incidence of feline immunodeficiency virus reactive antibodies in free-ranging lions of the Kruger National Park and the Etosha National Park in southern Africa detected by recombinant FIV p24 antigen. J. A. SPENCER, A. A. VAN DIJK, M. C. HORZINEK, H. F. EGBERINK, R. G. BENGIS, D. F. KEET, S. MORIKAWA and D. H. L. BISHOP .....	59	315–322
<b>Flow cytometric analysis</b>		
Flow cytometric analysis of T cell response in mice infected with <i>Cowdria ruminantium</i> . J. L. DU PLESSIS, C. GRAY and M. F. VAN STRUIP.....	59	337–338
<b>Forestomach</b>		
A comparative histological study of the number and size of the myenteric ganglia and neurones in the forestomach and abomasum of grey, white and black Karakul lambs. H. B. GROENEWALD and K. K. BOOTH .....	59	103–106
Scanning electron microscopy of the mucosal surface of the forestomachs and abomasa of grey, white and black Karakul lambs. H. B. GROENEWALD .....	59	167–174
A comparative study of the thickness of the tunica muscularis in the forestomach and abomasum of grey, white and black Karakul lambs. H. B. GROENEWALD and K. K. BOOTH.....	59	225–227
<b>Frog</b>		
Cardiotoxicity of the skin of the red-banded rubber frog, <i>Phrynomerus bifasciatus</i> (Smith 1847). M. P. K. VAN DER WALT, J. M. VAN ROOYEN, G. OBBERHOLZER and G. VAN ASWEGEN .....	59	107–109
<b>Galenia africana</b>		
<i>Galenia africana</i> L. poisoning in sheep and goats: hepatic and cardiac changes. J. J. VAN DER LUGT, R. ANITRA SCHULTZ, N. FOURIE, L. J. HON, P. JORDAAN and LEONIE LABUSCHAGNE .....	59	323–333
<b>Ganglia</b>		
A comparative histological study of the number and size of the myenteric ganglia and neurones in the forestomach and abomasum of grey, white and black Karakul lambs. H. B. GROENEWALD and K. K. BOOTH .....	59	103–106
<b>Gemsbok</b>		
Arthropod parasites of springbok, gemsbok, kudus, giraffes and Burchell's and Hartmann's zebras in the Etosha and Hardap Nature Reserves, Namibia. I. G. HORAK, M. ANTHONISSEN, R. C. KRECEK and J. BOOMKER .....	59	253–257



	Volume	Page
<b>Giraffe</b>		
Arthropod parasites of springbok, gemsbok, kudus, giraffes and Burchell's and Hartmann's zebras in the Etosha and Hardap Nature Reserves, Namibia. I. G. HORAK, M. ANTHONISSEN, R. C. KRECEK and J. BOOMKER .....	59	253–257
<b>Goats</b>		
Anaplasmosis in Uganda. III. Parasitological and serological evidence of <i>Anaplasma</i> infection in Ugandan goats. G. S. Z. SSENIONGA, I. KAKOMA, J. P. NYEKO, R. BUGA and R. HANSEN .....	59	161–162
<i>Galenia africana</i> L. poisoning in sheep and goats: hepatic and cardiac changes. J. J. VAN DER LUGT, R. ANITRA SCHULTZ, N. FOURIE, L. J. HON, P. JORDAAN and LEONIE LABUCHAGNE .....	59	323–333
<b>Grey rhebuck</b>		
Parasites of South African wildlife. XIII. Helminths of grey rhebuck, <i>Pelea capreolus</i> , and of bontebok, <i>Dama-liscus dorcas dorcas</i> , in the Bontebok National Park. J. BOOMKER and I. G. HORAK .....	59	175–182
<b>Gruidae</b>		
The Leucocytozoidae of South African birds: Caprimulgidae, Columbidae, Gruidae and Spheniscidae. G. F. BENNETT, R. A. EARLÉ and M. A. PEIRCE .....	59	229–234
<b>Guineafowl</b>		
Description of <i>Aegyptianella botulliformis</i> n. sp. (Rickettsiales: Anaplasmataceae) from the helmeted guinea-fowl, <i>Numida meleagris</i> . F. W. HUCHZERMEYER, I. G. HORAK, J. F. PUTTERILL and R. A. EARLÉ .....	59	97–101
<b>Haematozoa</b>		
A host-parasite catalogue of the haematozoa of the sub-Saharan birds. G. F. BENNETT, R. A. EARLÉ, HESTER DU TOIT and F. W. HUCHZERMEYER .....	59	1–73
<b>Hartmann's zebra</b>		
Arthropod parasites of springbok, gemsbok, kudus, giraffes and Burchell's and Hartmann's zebras in the Etosha and Hardap Nature Reserves, Namibia. I. G. HORAK, M. ANTHONISSEN, R. C. KRECEK and J. BOOMKER .....	59	253–257
<b>Heartwater</b>		
Adult <i>Amblyomma hebraeum</i> burdens and heartwater endemic stability in cattle. J. L. DU PLESSIS, P. J. LOOCK and C. J. F. LÜDEMANN .....	59	75–89
<b>Helminths</b>		
Parasites of South African wildlife. XIII. Helminths of grey rhebuck, <i>Pelea capreolus</i> , and of bontebok, <i>Dama-liscus dorcas dorcas</i> , in the Bontebok National Park. J. BOOMKER and I. G. HORAK .....	59	175–182
<b>Hepatic changes</b>		
<i>Galenia africana</i> L. poisoning in sheep and goats: hepatic and cardiac changes. J. J. VAN DER LUGT, R. ANITRA SCHULTZ, N. FOURIE, L. J. HON, P. JORDAAN and LEONIE LABUSCHAGNE .....	59	323–333
<b>Hippoboscidae</b>		
A new species of <i>Lipoptena</i> (Diptera: Hippoboscidae) from southern Africa. ELIZE J. VISAGIE .....	59	293–302
The louse fly <i>Lipoptena paradoxa</i> Newstead, 1907 (Diptera: Hippoboscidae): description of its adult and puparium and biology in South Africa. ELIZE J. VISAGIE, I. G. HORAK and J. BOOMKER .....	59	303–314
<b>Histological study</b>		
A comparative histological study of the number and size of the myenteric ganglia and neurones in the fore-stomach and abomasum of grey, white and black Karakul lambs. H. B. GROENEWALD and K. K. BOOTH .....	59	103–106
<b>Host-parasite catalogue</b>		
A host-parasite catalogue of the haematozoa of the sub-Saharan birds. G. F. BENNETT, R. A. EARLÉ, HESTER DU TOIT and F. W. HUCHZERMEYER .....	59	1–73
<b>Imicola group</b>		
Afrotropical <i>Culicoides</i> : <i>C. (Avaritia) loxodontis</i> sp. nov., a new member of the Imicola group (Diptera: Ceratopogonidae) associated with the African elephant in the Kruger National Park, South Africa. R. MEISWINKEL .....	59	145–160
<b>Intestinal tract</b>		
A light microscopical study of the intestinal tract of the Nile crocodile ( <i>Crocodylus niloticus</i> , Laurenti 1768). SANET H. KOTZÉ, N. J. VAN DER MERWE, G. VAN ASWEGEN and G. A. SMITH .....	59	249–252
<b>Ixodid ticks</b>		
Parasites of domestic and wild animals in South Africa. XXXI. Adult ixodid ticks on sheep in the Cape Province and in the Orange Free State. I. G. HORAK and L. J. FOURIE .....	59	275–283
The effect of veld-burning on the seasonal abundance of free-living ixodid ticks as determined by drag-sampling. A. M. SPICKETT, I. G. HORAK, ANDREA VAN NIEKERK and L. E. O. BRAACK .....	59	285–292
<b>Karakul lambs</b>		
A comparative histological study of the number and size of the myenteric ganglia and neurones in the fore-stomach and abomasum of grey, white and black Karakul lambs. H. B. GROENEWALD and K. K. BOOTH .....	59	103–106
Scanning electron microscopy of the mucosal surface of the forestomachs and abomasum of grey, white and black Karakul lambs. H. B. GROENEWALD .....	59	167–174
A comparative study of the thickness of the tunica muscularis in the forestomach and abomasum of grey, white and black Karakul lambs. H. B. GROENEWALD and K. K. BOOTH .....	59	225–227

	Volume	Page
<b>Kudu</b>		
Arthropod parasites of springbok, gemsbok, kudus, giraffes and Burchell's and Hartmann's zebras in the Etosha and Hardap Nature Reserves, Namibia. I. G. HORAK, M. ANTHONISSEN, R. C. KRECEK and J. BOOMKER .....	59	253–257
Parasites of domestic and wild animals in South Africa. XXX. Ectoparasites of kudus in the eastern Transvaal Lowveld and the eastern Cape Province. I. G. HORAK, J. BOOMKER, A. M. SPICKETT and V. DE VOS .....	59	259–273
<b>Leucocytozoidae</b>		
The Leucocytozoidae of South African birds: Caprimulgidae, Columbidae, Gruidae and Spheniscidae. G. F. BENNETT, R. A. EARLÉ and M. A. PEIRCE .....	59	229–234
The Leucocytozoidae of South African birds: Passeriformes. G. F. BENNETT, R. A. EARLÉ and M. A. PEIRCE.....	59	235–247
<b>Light microscopical study</b>		
A light microscopical study of the intestinal tract of the Nile crocodile ( <i>Crocodylus niloticus</i> , Laurenti 1768). SANET H. KOTZÉ, N. J. VAN DER MERWE, G. VAN ASWEGEN and G. A. SMITH .....	59	249–252
<b>Light trap catches</b>		
Subsampling of large light trap catches of <i>Culicoides</i> (Diptera: Ceratopogonidae). H. VAN ARK and R. MEISWINKEL .....	59	183–189
<b>Lions</b>		
Incidence of feline immunodeficiency virus reactive antibodies in free-ranging lions of the Kruger National Park and the Etosha National Park in southern Africa detected by recombinant FIV p24 antigen. J. A. SPENCER, A. A. VAN DIJK, M. C. HORZINEK, H. F. EGBERINK, R. G. BENGIS, D. F. KEET, S. MORIKAWA and D. H. L. BISHOP .....	59	315–322
<b>Lipoptena</b>		
A new species of <i>Lipoptena</i> (Diptera: Hippoboscidae) from southern Africa. ELIZE J. VISAGIE.....	59	293–302
The louse fly <i>Lipoptena paradoxa</i> Newstead, 1907 (Diptera: Hippoboscidae): description of its adult and puparium and biology in South Africa. ELIZE J. VISAGIE, I. G. HORAK and J. BOOMKER.....	59	303–314
<b>Louse-fly</b>		
The louse fly <i>Lipoptena paradoxa</i> Newstead, 1907 (Diptera: Hippoboscidae): description of its adult and puparium and biology in South Africa. ELIZE J. VISAGIE, I. G. HORAK and J. BOOMKER.....	59	303–314
<b>Mice</b>		
Flow cytometric analysis of T cell response in mice infected with <i>Cowdria ruminantium</i> . J. L. DU PLESSIS, C. GRAY and M. F. VAN STRIJP .....	59	337–338
<b>Mites</b>		
An orf-like condition caused by trombiculid mites on sheep in South Africa. Q. T. OTTO and LEONORA C. JORDAAN.....	59	335–336
<b>Myobacterium paratuberculosis</b>		
Characterization of ovine strains of <i>Mycobacterium paratuberculosis</i> restriction endonuclease analysis and DNA hybridization. G. W. DE LISLE, D. M. COLLINS and H. F. A. K. HUCHZERMEYER .....	59	163–165
<b>Neurons</b>		
A comparative histological study of the number and size of the myenteric ganglia and neurones in the forestomach and abomasum of grey, white and black Karakul lambs. H. B. GROENEWALD and K. K. BOOTH .....	59	103–106
<b>Numida meleagris</b>		
Description of <i>Aegyptianella botuliformis</i> n. sp. (Rickettsiales: Anaplasmataceae) from the helmeted guinea-fowl, <i>Numida meleagris</i> . F. W. HUCHZERMEYER, I. G. HORAK, J. F. PUTTERILL and R. A. EARLÉ .....	59	97–101
<b>Orf-like condition</b>		
An orf-like condition caused by trombiculid mites on sheep in South Africa. Q. T. OTTO and LEONORA C. JORDAAN.....	59	335–336
<b>Parasites of domestic animals</b>		
Parasites of domestic and wild animals in South Africa. XXX. Ectoparasites of kudus in the eastern Transvaal Lowveld and the eastern Cape Province. I. G. HORAK, J. BOOMKER, A. M. SPICKETT and V. DE VOS.....	59	259–273
Parasites of domestic and wild animals in South Africa. XXXI. Adult ixodid ticks on sheep in the Cape Province and in the Orange Free State. I. G. HORAK and L. J. FOURIE .....	59	275–283
<b>Parasites of wild animals</b>		
Parasites of South African wildlife. XIII. Helminths of grey rheebuck, <i>Pelea capreolus</i> , and of bontebok, <i>Dama liscus dorcas dorcas</i> , in the Bontebok National Park. J. BOOMKER and I. G. HORAK.....	59	175–182
Parasites of domestic and wild animals in South Africa. XXX. Ectoparasites of kudus in the eastern Transvaal Lowveld and the eastern Cape Province. I. G. HORAK, J. BOOMKER, A. M. SPICKETT and V. DE VOS.....	59	259–273
Parasites of domestic and wild animals in South Africa. XXXI. Adult ixodid ticks on sheep in the Cape Province and in the Orange Free State. I. G. HORAK and L. J. FOURIE .....	59	275–283
<b>Parasitological evidence of Anaplasma infection</b>		
Anaplasmosis in Uganda. III. Parasitological and serological evidence of <i>Anaplasma</i> infection in Ugandan goats. G. S. Z. SSENIONGA, I. KAKOMA, J. P. NYEKO, R. BUGA and R. HANSEN .....	59	161–162
<b>Passeriformes</b>		
The Leucocytozoidae of South African birds: Passeriformes. G. F. BENNETT, R. A. EARLÉ and M. A. PEIRCE.....	59	235–247



	Volume	Page
<b>Pelea capreolus</b>		
Parasites of South African wildlife. XIII. Helminths of grey rhebuck, <i>Pelea capreolus</i> , and of bontebok, <i>Dama-liscus dorcas dorcas</i> , in the Bontebok National Park. J. BOOMKER and I. G. HORAK .....	59	175–182
<b>Peptides</b>		
Bioactive peptides and serotonin in the gut endocrine cells of the crocodile, <i>Crocodylus niloticus</i> (Laurenti 1768): an immunocytochemical study. G. VAN ASWEGEN, SANET H. KOTZÉ, N. J. VAN DER MERWE and G. A. SMITH .....	59	123–127
<b>Phrynomerus bifasciatus</b>		
Cardiotoxicity of the skin of the red-banded rubber frog, <i>Phrynomerus bifasciatus</i> (Smith 1847). M. P. K. VAN DER WALT, J. M. VAN ROOYEN, G. OBERHOLZER and G. VAN ASWEGEN .....	59	107–109
<b>Pigs</b>		
The transovarial transmission of <i>Babesia trautmanni</i> by <i>Rhipicephalus simus</i> to domestic pigs. D. T. DE WAAL, LAURA M. LOPEZ REBOLLAR and F. T. POTGIETER .....	59	219–221
<b>Poisoning</b>		
Experimental <i>Albizia versicolor</i> poisoning in sheep and its successful treatment with pyridoxine hydrochloride. B. GUMMOW, STELLA S. BASTIANELLO, LEONIE LABUSCHAGNE and G. L. ERASMUS .....	59	111–118
Experimentally-induced <i>Cestrum laevigatum</i> (Schlechtld.) poisoning in sheep. J. J. VAN DER LUGT, P. W. NEL and J. P. KITCHING .....	59	135–144
<i>Galenia africana</i> L. poisoning in sheep and goats: hepatic and cardiac changes. J. J. VAN DER LUGT, R. ANITRA SCHULTZ, N. FOURIE, L. J. HON, P. JORDAAN and LEONIE LABUSCHAGNE .....	59	323–333
<b>Pyridoxine hydrochloride</b>		
Experimental <i>Albizia versicolor</i> poisoning in sheep and its successful treatment with pyridoxine hydrochloride. B. GUMMOW, STELLA S. BASTIANELLO, LEONIE LABUSCHAGNE and G. L. ERASMUS .....	59	111–118
<b>Recombinant FIV p24 antigen</b>		
Incidence of feline immunodeficiency virus reactive antibodies in free-ranging lions of the Kruger National Park and the Etosha National Park in southern Africa detected by recombinant FIV p24 antigen. J. A. SPENCER, A. A. VAN DIJK, M. C. HORZINEK, H. F. EGBERINK, R. G. BENGIS, D. F. KEET, S. MORIKAWA and D. H. L. BISHOP .....	59	315–322
<b>Red blood cells</b>		
Evaluation of the efficacy of d-penicillamine and trientine as copper chelators using an <i>in vitro</i> technique involving ovine red blood cells. C. J. BOTHA, T. W. NAUDÉ, G. E. SWAN and A. J. GUTHRIE .....	59	191–195
<b>Restriction endonuclease analysis</b>		
Characterization of ovine strains of <i>Mycobacterium paratuberculosis</i> restriction endonuclease analysis and DNA hybridization. G. W. DE LISLE, D. M. COLLINS and H. F. A. K. HUCHZERMAYER .....	59	163–165
<b>Rhipicephalus simus</b>		
The transovarial transmission of <i>Babesia trautmanni</i> by <i>Rhipicephalus simus</i> to domestic pigs. D. T. DE WAAL, LAURA M. LOPEZ REBOLLAR and F. T. POTGIETER .....	59	219–221
<b>Rickettsiales</b>		
Description of <i>Aegyptianella botuliformis</i> n. sp. (Rickettsiales: Anaplasmataceae) from the helmeted guinea-fowl, <i>Numida meleagris</i> . F. W. HUCHZERMAYER, I. G. HORAK, J. F. PUTTERILL and R. A. EARLÉ .....	59	97–101
<b>Salt loading</b>		
The effects of salt loading via two different routes on feed intake, body water turnover rate and electrolyte excretion in sheep. R. A. MEINTJES and ROELINA OLIVIER .....	59	91–96
<b>Scanning electron microscopy</b>		
Scanning electron microscopy of the mucosal surface of the forestomachs and abomasa of grey, white and black Karakul lambs. H. B. GROENEWALD .....	59	167–174
<b>Serological differentiation of bluetongue virus serotypes</b>		
Serological differentiation of five bluetongue virus serotypes in indirect ELISA. D. H. DU PLESSIS .....	59	119–122
<b>Serological evidence of Anaplasma infection</b>		
Anaplasmosis in Uganda. III. Parasitological and serological evidence of <i>Anaplasma</i> infection in Ugandan goats. G. S. Z. SSENIONGA, I. KAKOMA, J. P. NYEKO, R. BUGA and R. HANSEN .....	59	161–162
<b>Serological evidence of swine vesicular disease virus</b>		
No serological evidence for the presence of swine vesicular disease virus in South Africa. J. J. ESTERHUYSEN, G. R. THOMSON and M. D. GAINARU .....	59	223–224
<b>Serotonin</b>		
Bioactive peptides and serotonin in the gut endocrine cells of the crocodile, <i>Crocodylus niloticus</i> (Laurenti 1768): an immunocytochemical study. G. VAN ASWEGEN, SANET H. KOTZÉ, N. J. VAN DER MERWE and G. A. SMITH .....	59	123–127
<b>Sheep</b>		
The effects of salt loading via two different routes on feed intake, body water turnover rate and electrolyte excretion in sheep. R. A. MEINTJES and ROELINA OLIVIER .....	59	91–96

	Volume	Page
Experimental <i>Albizia versicolor</i> poisoning in sheep and its successful treatment with pyridoxine hydrochloride. B. GUMMOW, STELLA S. BASTIANELLO, LEONIE LABUSCHAGNE and G. L. ERASMUS .....	59	111–118
Experimentally-induced <i>Cestrum laevigatum</i> (Schlechtld.) poisoning in sheep. J. J. VAN DER LUGT, P. W. NEL and J. P. KITCHING .....	59	135–144
Parasites of domestic and wild animals in South Africa. XXXI. Adult ixodid ticks on sheep in the Cape Province and in the Orange Free State. I. G. HORAK and L. J. FOURIE .....	59	275–283
<i>Galenia africana</i> L. poisoning in sheep and goats: hepatic and cardiac changes. J. J. VAN DER LUGT, R. ANITRA SCHULTZ, N. FOURIE, L. J. HON, P. JORDAAN and LEONIE LABUSCHAGNE .....	59	323–333
An orf-like condition caused by trombiculid mites on sheep in South Africa. Q. T. OTTO and LEONORA C. JORDAAN .....	59	335–336
<b>Skin</b>		
Cardiotoxicity of the skin of the red-banded rubber frog, <i>Phrynomerus bifasciatus</i> (Smith 1847). M. P. K. VAN DER WALT, J. M. VAN ROOYEN, G. OBERHOLZER and G. VAN ASWEGEN .....	59	107–109
<b>Small stock</b>		
A survey of small stock tick control practices in the eastern Cape Province of South Africa. A. M. SPICKETT and B. H. FIVAZ .....	59	197–201
<b>Spheniscidae</b>		
The Leucocytozoidae of South African birds: Caprimulgidae, Columbidae, Gruidae and Spheniscidae. G. F. BENNETT, R. A. EARLÉ and M. A. PEIRCE .....	59	229–234
<b>Springbok</b>		
Arthropod parasites of springbok, gemsbok, kudus, giraffes and Burchell's and Hartmann's zebras in the Etosha and Hardap Nature Reserves, Namibia. I. G. HORAK, M. ANTHONISSEN, R. C. KRECEK and J. BOOMKER .....	59	253–257
<b>Sub-Saharan birds</b>		
A host-parasite catalogue of the haematozoa of the sub-Saharan birds. G. F. BENNETT, R. A. EARLÉ, HESTER DU TOIT and F. W. HUCHZERMEYER .....	59	1–73
<b>Swine vesicular disease</b>		
No serological evidence for the presence of swine vesicular disease virus in South Africa. J. J. ESTERHUYSEN, G. R. THOMSON and M. D. GAINARU .....	59	223–224
<b>T cell response</b>		
Flow cytometric analysis of T cell response in mice infected with <i>Cowdria ruminantium</i> . J. L. DU PLESSIS, C. GRAY and M. F. VAN STRIJP .....	59	337–338
<b>Tick control practices</b>		
A survey of small stock tick control practices in the eastern Cape Province of South Africa. A. M. SPICKETT and B. H. FIVAZ .....	59	197–201
A survey of cattle tick control practices in the eastern Cape Province of South Africa. A. M. SPICKETT and B. H. FIVAZ .....	59	203–210
<b>Ticks</b>		
A survey of small stock tick control practices in the eastern Cape Province of South Africa. A. M. SPICKETT and B. H. FIVAZ .....	59	197–201
A survey of cattle tick control practices in the eastern Cape Province of South Africa. A. M. SPICKETT and B. H. FIVAZ .....	59	203–210
Parasites of domestic and wild animals in South Africa. XXXI. Adult ixodid ticks on sheep in the Cape Province and in the Orange Free State. I. G. HORAK and L. J. FOURIE .....	59	275–283
The effect of veld-burning on the seasonal abundance of free-living ixodid ticks as determined by drag-sampling. A. M. SPICKETT, I. G. HORAK, ANDREA VAN NIEKERK and L. E. O. BRAACK .....	59	285–292
<b>Transovarial transmission</b>		
The transovarial transmission of <i>Babesia trautmanni</i> by <i>Rhipicephalus simus</i> to domestic pigs. D. T. DE WAAL, LAURA M. LOPEZ REBOLLAR and F. T. POTGIETER .....	59	219–221
<b>Trientine</b>		
Evaluation of the efficacy of d-penicillamine and trientine as copper chelators using an <i>in vitro</i> technique involving ovine red blood cells. C. J. BOTHA, T. W. NAUDÉ, G. E. SWAN and A. J. GUTHRIE .....	59	191–195
<b>Tunica muscularis</b>		
A comparative study of the thickness of the tunica muscularis in the forestomach and abomasum of grey, white and black Karakul lambs. H. B. GROENEWALD and K. K. BOOTH .....	59	225–227
<b>Veins</b>		
Deep dissections of the veins of the bovine head: unpublished work by Prof. J. M. W. le Roux (1926–1991). MALIE M. S. SMUTS and A. J. BEZUIDENHOUT .....	59	211–218
<b>Veld-burning</b>		
The effect of veld-burning on the seasonal abundance of free-living ixodid ticks as determined by drag-sampling. A. M. SPICKETT, I. G. HORAK, ANDREA VAN NIEKERK and L. E. O. BRAACK .....	59	285–292
<b>Virus</b>		
Serological differentiation of five bluetongue virus serotypes in indirect ELISA. D. H. DU PLESSIS .....	59	119–122

	Volume	Page
Production and properties of monoclonal antibodies against African horsesickness virus, serotype 3 W. VAN WYNGAARDT, D. H. DU PLESSIS, SANDRA VAN WYNGAARDT and J. A. VERSCHOOR	59	129-133
No serological evidence for the presence of swine vesicular disease virus in South Africa. J. J. ESTERHUYSEN, G. R. THOMSON and M. D. GAINARU	59	223-224
Incidence of feline immunodeficiency virus reactive antibodies in free-ranging lions of the Kruger National Park and the Etosha National Park in southern Africa detected by recombinant FIV p24 antigen. J. A. SPENCER, A. A. VAN DIJK, M. C. HORZINEK, H. F. EGBERINK, R. G., BENGIS, D. F. KEET, S. MORIKAWA and D. H. L. BISHOP	59	315-322
<b>Virus serotype</b>		
Serological differentiation of five bluetongue virus serotypes in indirect ELISA. D. H. DU PLESSIS	59	119-122
Production and properties of monoclonal antibodies against African horsesickness virus, serotype 3 W. VAN WYNGAARDT, D. H. DU PLESSIS, SANDRA VAN WYNGAARDT and J. A. VERSCHOOR	59	129-133
<b>Wild animals</b>		
Parasites of domestic and wild animals in South Africa. XXX. Ectoparasites of kudus in the eastern Transvaal Lowveld and the eastern Cape Province. I. G. HORAK, J. BOOMKER, A. M. SPICKETT and J. F. VOS	59	259-274
Parasites of domestic and wild animals in South Africa. XXXI. Adult ixodid ticks on sheep in the Cape Province and in the Orange Free State. I. G. HORAK and L. J. FOURIE	59	275-284
<b>Wildlife</b>		
Parasites of South African wildlife. XIII. Helminths of grey rhebuck, <i>Pelea capreolus</i> , and redbok <i>Dama liscus dorcas dorcas</i> , in the Bontebok National Park. J. BOOMKER and I. G. HORAK	59	175-184