



A check-list of the nematode parasites of South African Serpentes (snakes) and Sauria (lizards)

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ABSTRACT

HERING-HAGENBECK, S.F.B.N. & BOOMKER, J. 2000. A check-list on the nematode parasites of South African Serpentes (snakes) and Sauria (lizards). *Onderstepoort Journal of Veterinary Research*, 67:1–13

Published records, in combination with own data have been brought together to provide data on parasite/host relationships of reptiles that occur in the Republic of South Africa.

A total of 62 nematode species belonging to 23 genera and 11 families are recorded from 20 snake and 21 lizard species. The genera *Kalicephalus*, *Spauligodon*, *Ophidascaris* and *Abbreviata* are especially well represented with between five and eight species per genus. The most nematode species were recorded from the flap-neck chameleon, *Chamaeleo dilepis* (eight), the puff-adder, *Bitis arietans* (eight) and the water monitor, *Varanus niloticus* (seven). All synonyms of parasites and hosts are given.

Keywords: Lizards, nematodes, reptiles, snakes, South Africa

INTRODUCTION

More than 400 species of reptiles occur in South Africa in biomes that vary from the Western Cape macchia to the grasslands of the Free State, the mountainous highlands of KwaZulu-Natal and the arid regions of the Northern Cape. Their helminth parasites, however, have attracted little attention and few records exist in the literature. Those that do exist are mostly of a taxonomic nature and only a single one deals with a survey.

The aim of this check-list is to provide a source of reference to the original records of the nematodes of reptiles occurring in South Africa.

Synonyms of the nematodes and their host species are provided. Only adult worms have been included and doubtful records or host identifications are indicated by a question mark (?). Records from reptiles that also have a distribution outside South Africa are included in this list.

We have partly followed Round's (1968) and Khalil & Polling's (1997) format and thus present the check-list in two parts. In the first part, the parasites are listed under their scientific names together with the synonyms and authorities, and the host and country from which the parasite was reported.

In the second part, the hosts are listed, together with their synonyms and their parasites, the latter in alphabetical order.

The system of classification of the nematodes conforms with the views held by Anderson, Chabaud & Willmott (1974–1983), while the classification and synonymies of the hosts are based on the works by Broadley (1983) and Branch (1998).

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PARASITE/HOST CHECK-LIST

Nematoda

Family RHABDIASIDAE Railliet, 1915

GENUS *RHABDIAS* STILES & HASSALL, 1905

1. *Rhabdias fuscovenosa* (Railliet, 1899) Goodey, 1924

Ascaris humilis Leidy, 1856; *Strongylus catanensis* Rizzo, 1902; *Rhabdias ophida* Goodey, 1924; *Rhabdias vellardi* Peireira *sensu* Harwood, 1932; *Rhabdias annulosa* Hsu, 1933

Bitis arietans
Fantham & Porter (1950), South Africa

Hemachatus haemachatus
Fantham & Porter (1950), South Africa

Naja nivea
Fantham & Porter (1950), South Africa

Family DIAPHANOCEPHALIDAE

Travassos, 1920

GENUS *KALICEPHALUS* MOLIN, 1861

Subgenus *Kalicephalus* (*Variabiliformis*) Lichtenfels, 1980

1. *Kalicephalus colubri colubri* (Ortlepp, 1923) Lichtenfels, 1980

Kalicephalus minutus Boulenger, 1926; *Kalicephalus minutus* Fantham & Porter, 1950; *Kalicephalus obliquus* Schuurmans Stekhoven, 1937

Bitis arietans
Peirce (1984), Zambia
Schad (1962), Congo

Naja melanoleuca
Schad (1962), West Africa

Pseudoaspis cana
Schad (1962), Kenya

2. *Kalicephalus paracolubri paracolubri* Ghadirian, 1968

Naja melanonleuca
Ghadirian (1968), Central African Republic

3. *Kalicephalus vipera obliquus* (Daubney, 1923)

Diaphanocephalus obliquus Daubney, 1923; *Kalicephalus obliquus* Ortlepp, 1923; *Kalicephalus bitisi* Campana-Rouget & Chabaud, 1950

Bitis arietans
Daubney (1923), Africa
Fantham & Porter (1950), South Africa

Bitis gabonica

Campana-Rouget & Chabaud (1950), Ivory Coast
Ortlepp (1923); Fantham & Porter (1950), South Africa

Causus rhombeatus
Daubney (1923), Africa
Fantham & Porter (1950), South Africa

Psammophylax tritaeniatus
Fantham & Porter (1950), South Africa

Subgenus *Kalicephalus* (*Schadius*) Lichtenfels, 1980

4. *Kalicephalus costatus micrurus* (Daubney, 1923) Schad, 1962

Diaphanocephalus micrurus Daubney, 1923; *Kalicephalus micrurus* Yorke & Maplestone, 1926

Crotaphopeltis hotamboeia
This paper, South Africa
Wahid (1961), Malawi

Dispholidus typus
Schad (1962), London Zoo

Macrelaps microlepidotus
Daubney (1923); Baylis (1929), South Africa

5. *Kalicephalus simus simus* (Daubney, 1923) Yorke & Maplestone, 1926

Kalicephalus nigeriensis Ortlepp, 1923

Dendroaspis angusticeps
Fantham & Porter (1950), South Africa

Dendroaspis polylepis
Ortlepp (1926) in Schad (1962), Congo

Naja melanoleuca
Van den Berghe (1943); Schad (1962), Congo

Naja mossambica
Peirce (1984), Zambia
Fantham & Porter (1950), South Africa

Psammophis brevirostris
Fantham & Porter (1950), South Africa

Species inquirendae (After Schad 1962)

6. *Kalicephalus rotundatus* v. Linstow, 1908

Pseudoaspis cana
Von Linstow (1908), South Africa

Family PHARYNGODONIDAE Travassos, 1919

GENUS *PARAPHARYNGODON* CHATTERJI, 1933

1. *Parapharyngodon rotundatus* (Malan, 1939) Freitas, 1957

Thelandros rotundatus Malan, 1939

Agama atra
Malan (1939); Freitas (1957), South Africa

Pseudocordylus microlepidotus
Malan (1939); Freitas (1957), South Africa

GENUS *PHARYNGODON* DIESING, 1861

Neopharyngodon Chakravarty & Bhaduri, 1948

1. *Pharyngodon* sp.

Agama aculeata aculeata
Heideman (1995), Namibia

GENUS *SPAULIGODON* SKRJABIN,
SCHIKHOBALOVA & LAGODOVSKAJA, 1960

1. *Spauligodon auziensis* (Seurat, 1917) Skrijabin
et al., 1960

Hemidactylus mabouia
Moravec *et al.* (1987), Egypt

2. *Spauligodon morgani* (Fitzsimmons, 1961) Ba-
rus & Coy Otero, 1974

Pharyngodon morgani Fitzsimmons, 1961

Hemidactylus mabouia
Simonsen & Sarda (1985), Tanzania

Mabuya quinquetaeniata
Simbotwe (1979), Zambia

Mabuya striata
Fitzsimmons (1961), Malawi
Simbotwe (1979), Zambia

3. *Spauligodon petersi* Bursey, McAllister & Freed,
1997

Mabuya sulcata sulcata
Bursey *et al.* (1997), South Africa

4. *Spauligodon smithi* Bursey, McAllister & Freed,
1997

Pachydactylus bibronii
Bursey *et al.* (1997), South Africa

5. *Spauligodon timbavatiensis* Hering-Hagenbeck
& Boomker, 1998

Pachydactylus turneri
Hering-Hagenbeck & Boomker (1998), South
Africa

6. *Spauligodon vojteki* Moravec, Barus & Rysavy,
1987

Mabuya quinquetaeniata
Moravec *et al.* (1987), Egypt

GENUS *THELANDROS* WEDL, 1862

Avilandros Skrijabin, Schikhobalova & Mozgovoï, 1951

1. *Thelandros alatus* Wedl, 1862

Oxyuris uromasticola Galeb, 1889; *Thelandros micrurus*
Rauther, 1918; *Thelandros sahariensis* Baylis, 1930; *The-*
landros avis Maplestone, 1940

Agama mossambica
Myers *et al.* (1960), Sudan

GENUS *SKRJABINODON* INGLIS, 1968

1. *Skrjabinodon dossae* (Caballero, 1968) Schmidt
& Kuntz, 1972

Hemidactylus mabouia
Schmidt & Kuntz (1972), Madagascar

2. *Skrjabinodon mabuyae* (Sandground, 1936) Ing-
lis, 1968

Mabuya varia
Baker (1987), Uganda

3. *Skrjabinodon mabuiensis* (Malan, 1939) Inglis,
1968

Pharyngodon mabuiensis Malan, 1939

Mabuya striata
Malan (1939), South Africa

Family COSMOCERCIDAE Travassos, 1925

Subfamily Cosmocercinae Railliet, 1916

GENUS *APECTANA* RAILLIET & HENRY, 1916

1. *Aplectana macintoshii* (Stewart, 1914) Travas-
sos, 1931

Aplectana agubernaculum Gupta, 1960; *Aplectana asiatica*
Gupta, 1960; *Aplectana schneideri* Travassos, 1931; *Aplec-*
tana stormi Travassos, 1931; *Aplectana varelai* Rodrigues,
Rodrigues & Cristofaro, 1972; *Ascaris commutata* Diesing,
1851 *sensu* Claparede, 1859; *Neyrapectana ranae* Wang,
Zhao & Chen, 1978; *Neoraillietnema ranae* Wang, 1980;
Neoraillietnema praeputiale Skrijabin, 1916; *Nematoxys com-*
mutatus Rudolphi *sensu* Schneider, 1866; *Oxysomatium*
stomatici Biswas & Chakravarty, 1963; *Oxysomatium longi-*
caudata Yuen, 1965; *Oxysomatium minutum* Rasheed, 1965;
Oxysomatium macintoshii kirtipuri Singh, 1969; *Oxysoma-*
tium mehdii Ilyas, 1980; *Raillietnema praeputiale* (Skrijabin,
1916) *sensu* Kozak, 1969; Deshmukh, 1970; Vojtkova, 1976

Varanus niloticus
Rasheed (1965), Cameroon

Varanus niloticus
Baker (1980), Sudan

**Family HETERAKIDAE Railliet & Henry,
1912**

Subfamily Spinicaudinae Travassos, 1920

GENUS *AFRICANA* TRAVASSOS, 1920

Preterakis Freitas, 1956

1. *Africana acuticeps* (Gedoelst, 1916) Travassos, 1920

Chamaeleo dilepis
Baylis (1937), Congo

2. *Africana africana* (Gendre, 1909) Travassos, 1920

Varanus niloticus
Graber (1981), Congo

GENUS *STRONGYLURIS* MUELLER, 1894

1. *Strongyluris brevicaudata* Mueller, 1894

Agama sp.
Cowper (1969), Nigeria

Bradypodion pumila
Boomker & Petter (unpublished), South Africa

Chamaeleo dilepis
Schmidt & Canaris (1968), Kenya
Sand-ground (1928), Tanzania

2. *Strongyluris capensis* Pruedhoe & Harris, 1971

Bradypodion pumila pumila
Prudhoe & Harris (1971), South Africa

3. *Strongyluris elegans* (Gendre, 1909) Railliet & Henry, 1914

Chamaeleo dilepis
Gedoelst (1916), Congo

4. *Strongyluris ornata* (v. Linstow, 1897) Railliet & Henry, 1914

Acanthocerus atricollis
Harwood (1935), Tanzania

Agama atra
This paper, South Africa

Family ASCARIDIDAE Baird, 1853

GENUS *HEXAMETRA* TRAVASSOS, 1919

1. *Hexametra applanata* (v. Linstow, 1899) Sprent, 1978

Chamaeleo dilepis
Gedoelst (1916), Zaire

2. *Hexametra hexametra* (Gedoelst, 1916) Travassos, 1920

Chamaeleo dilepis
Sprent (1978), Zaire
Baylis (1920), Congo
Cowper (1969), Nigeria

3. *Hexametra quadricornis* (Wedl, 1861) Kreis, 1944

Ascaris gestri Parona, 1889; *Ascaris quadrilobata* v. Linstow, 1908; *Hexametra anguinea* Wu & Hu, 1938; *Hexametra*

daelhlholtzii Kreis, 1944; *Hexametra multicornis* Mozgovi & Romanova 1970; *Hexametra boskovi* Moravec, 1966; *Hexametra skrjabini* Markov, Bogdanov & Persianova, 1970; *Hexametra dagestanica* Markov, Khonyakina & Grigor'eva, 1972; *Ophidascaris natricis* Yamaguti, 1935; *Ophidascaris genoheteromegala* Kreis, 1938; *Ophidascaris microspicula* Kreis, 1938; *Polydelphis waterstoni* Baylis, 1921; *Polydelphis sewelli* Baylis & Daubney, 1922; *Polydelphis dalmatina* Kreis, 1940; *Polydelphis najae* Mozgovi, 1953

Bitis arietans

Fantham & Porter (1950), South Africa
Baylis (1920); Sprent (1978), Africa

Bitis gabonica

Fantham & Porter (1950), South Africa
Sprent (1978), Africa

Causus rhombeatus

Fantham & Porter (1950), South Africa

Lamprophis fuliginosus

Fantham & Porter (1950), South Africa

Naja melanoleuca

Fantham & Porter (1950), Malawi
Sprent (1978), Africa

Naja nigricollis

Sprent (1978), Africa

Psammophis subtaeniatus

Wahid (1961), Zimbabwe

Pseudoaspis cana

Baylis (1920); Sprent (1978), Africa
Fantham & Porter (1950), South Africa

Python sebae

Sprent (1978), Africa

GENUS *OPHIDASCARIS* BAYLIS, 1920

1. *Ophidascaris amucornata* Schuurmans Stekhoven, 1937

Python sebae

Sprent & McKeown (1979), Kenya

2. *Ophidascaris filaria* (Dujardin, 1845) Baylis, 1920

Ascaris rubicunda Schneider, 1866; *Ophidascaris ajarensis* Khera, 1954, *pro parte*

Lamprophis fuliginosus

Fantham & Porter (1950), South Africa

Naja melanoleuca

Fantham & Porter (1950), Malawi

Python sebae

Aruo (1977) in Baker (1987), Uganda
Baylis (1920), Zanzibar
Fantham & Porter (1950), South Africa

3. *Ophidascaris intorta* (Gedoelst, 1916) Baylis, 1920

Bitis arietans

Fantham & Porter (1950), South Africa

- Bitis gabonica*
Fantham & Porter (1950), South Africa
4. *Ophidascaris mombasica* Baylis, 1921
Lycodonomorphus rufulus
Fantham & Porter (1950), South Africa
Psammophis subtaeniatus
Baylis (1920), Kenya
5. *Ophidascaris naiae* (Gedoelst, 1916) Baylis, 1920
Ophidascaris daubaylisi Baylis & Daubney, 1922; 1923
Naja mossambica
Fantham & Porter (1950), South Africa
Naja nivea
Fantham & Porter (1950), South Africa
"Python"
Bwangamoi (1968), Uganda
6. *Ophidascaris radiosa* (Schneider, 1866) Baylis, 1920
Bitis gabonica
Baylis (1920), Africa
Causus rhombeatus
Fantham & Porter (1950), South Africa
- GENUS *ORNEOASCARIS* SKRJABIN, 1916
Amplicaeum Baylis, 1920
1. *Orneoascaris chrysanthemoides* Skrjabin, 1916
Ascaris involuta Gedoelst, 1916; *Ascaris bufonis* Gedoelst, 1916 *nec* Schrank, 1788; *Ascaris colura* Baylis, 1919; *Amplicaeum africanum* Taylor, 1924; *Amplicaeum causi* Thwaite, 1926; *Amplicaeum gedoelsti* Yorke & Maplestone, 1926; *Amplicaeum novempapillatum* Sandground, 1933; *Amplicaeum pesteri* Rasheed, 1965
Bitis cornuta
Vuyksteke (1964), Central Africa
Causus rhombeatus
Fantham & Porter (1950), South Africa
Chamaeleo dilepis
Thwaite (1926), Africa
Dispholydus typus
Rasheed (1965), Cameroon
2. *Orneoascaris schoutedeni* (Baylis, 1940) Le Van Hoa, 1960
Varanus albigularis
Sprent (1985a), Tanzania
Varanus niloticus
Le Van Hoa (1960), Zaire
- GENUS *POLYDELPHIS* DUJARDIN, 1845
1. *Polydelphis anoura* Dujardin, 1845

Ascaris attenuata Molin, 1858; *Ascaris oculata* v. Linstow, 1899; *Ascaris pythonis* Retzius, 1830; *Ascaris rubicunda* Schneider, 1866 (*pro parte*); *Polydelphis bicornuta* Robinson, 1934; *Polydelphis mucronata* Panagia, 1933

Bitis arietans
Von Linstow (1899), South Africa

Python sebae
Fantham & Porter (1950), South Africa
Baylis (1940), Congo
Peirce (1984), Zambia

GENUS *RAILLIETASCARIS* SPRENT, 1935

1. *Raillietascaris varani* (Baylis & Daubney, 1922) Sprent, 1935

Amplicaeum monitor Khera, 1954; *Amplicaeum iguanae* Wahid, 1961; *Amplicaeum mackerrasae* Thomas, 1959

Varanus niloticus
Sprent (1985b), Congo

Family GNATHOSTOMATIDAE Railliet, 1915

GENUS *TANQUA* BLANCHARD, 1904

Ctenocephalus v. Linstow, 1904; *Tetradenos* v. Linstow, 1904; *Anomala* Travassos, 1920

1. *Tanqua tiara* (v. Linstow, 1879) Blanchard, 1904

Varanus albigularis
Baylis (1939), South Africa

Varanus niloticus
Sandground (1933), Tanzania
Baylis & Lane 1920), Zanzibar
Gretillat & Gaillard (1966), Senegal

Family PHYSALOPTERIDAE (Railliet, 1893) Leiper, 1908

GENUS *ABBREVIATA* TRAVASSOS, 1920

Polydelphyoptera Schultz, 1927; *Didelphyoptera* Schultz, 1927

1. *Abbreviata affinis* (Gedoelst, 1916) Chabaud, 1956

Crotaphopeltis hotamboeia
Chabaud (1956), Congo

Psammophis brevirostris
Fantham & Porter (1950), South Africa

2. *Abbreviata baylisi* Chabaud, 1956

Physaloptera quadrovaria Leiper, 1908; *Physaloptera paradoxa* v. Linstow, 1908

Varanus albigularis (?)
Chabaud (1956), Central Africa

3. *Abbreviata damarensis* Prudhoe & Harris, 1971
Chamaeleo namaquensis
Prudhoe & Harris (1971), Namibia
4. *Abbreviata nyassae* Fitzsimmons, 1964
Aconthocercus atricollis
Fitzsimmons (1964), Malawi
5. *Abbreviata ortleppi ortleppi* (Sandground, 1928)
Morgan, 1945
Chamaeleo dilepis
Sandground (1928), Tanzania
Morgan (1945), Tanzania
6. *Abbreviata polydentata* (Walton, 1932) Morgan,
1945
Hemidactylus mabouia
Morgan (1945), Tanzania
7. *Abbreviata quadrovaria* (Leiper, 1908) Schultz,
1927
Varanus niloticus
Ortlepp (1922), Sudan
8. *Abbreviata* sp.
Agama aculeata
Heideman (1995), Namibia

GENUS *SKRJABILOPTERA* SCHULTZ, 1927

- Didelphysoma* Schultz, 1927
1. *Skrjabinoptera chamaeleontis* (Gedoelst, 1916)
Schultz, 1927
Chamaeleo dilepis
Vuylsteke (1964), Congo
 2. *Skrjabinoptera simplicidens* (Ortlepp, 1922)
Schultz, 1927
Unidentified lizard
Schultz (1927), South Africa
 3. *Skrjabinoptera wetzeli* H6rchner & Weissenburg,
1965
Agama hispida (?)
H6rchner & Weissenburg (1965), Congo
Agama hispida
Simbotwe (1979), Zambia

GENUS *THUBUNAEA* SEURAT, 1914

1. *Thubunaea fitzsimmonsii* Ortlepp, 1931
Ichnotropis squamulosa
Ortlepp (1931), South Africa

GENUS *PHYSALOPTEROIDES* WU & LIU, 1940

Thubunaea Seurat, 1914 (*pro parte*)

1. *Physalopteroides agamae* (Sandground, 1933)
Chabaud & Brygoo, 1960
Agama hispida
Chabaud & Brygoo (1960), Mozambique
2. *Physalopteroides asymmetrica* (Baylis, 1930)
Chabaud & Brygoo, 1960
Hemidactylus mabouia
Simonsen & Sarda (1985), Tanzania
3. *Physalopteroides grayicola* (Sandground, 1933)
Chabaud & Brygoo, 1960
Bitis arietans
Chabaud & Brygoo (1960), Africa
4. *Physalopteroides impar impar* (Malan, 1939)
Chabaud & Brygoo, 1960
Agama atra
Malan (1939); Chabaud & Brygoo (1960),
South Africa
Cordylus cordylus
Chabaud & Brygoo (1960), South Africa

Family RHABDOCHONIDAE (Travassos, Artigas & Pereira, 1928) Skrjabin, 1946

GENUS *RHABDOCHONA* RAILLIET, 1916

- Ichthyospirura* Skrjabin, 1917; *Pseudorhabdochona* Liu & Wu, 1941; *Rhabdochonoidea* Janizewska, 1955
1. *Rhabdochona puylaerti* Moravec, 1983
Causus rhombeatus
Moravec (1983), Uganda

Family DIPLOTRIAENIDAE (Skrjabin, 1916 subfam.) Anderson, 1958

GENUS *HASTOSPICULUM* SKRJABIN, 1923

- Setarospiculum* Mirza & Basir, 1939
1. *Hastospiculum macrophallos* (Parona, 1889)
Baylis, 1930
Filaria varani Baylis & Daubney 1922; *Hastospiculum spinigerum* Chandler, 1929; *Setarospiculum varani* Mirza & Basir, 1939; *Hastospiculum indicum* Yamaguti, 1961
Varanus niloticus
Thurston (1971), Uganda
Gretillat & Gaillard (1966), Senegal

Family ONCHOCERCIDAE Leiper, 1911

Dipetalonematidae Wehr, 1935; Setariidae Yorke & Maplestone, 1926 subfam.

GENUS *BEFILARIA* CHABAUD, ANDERSON & BRYGOO, 1959

1. *Befilaria pseudocordyli* Gibbons, 1989
Pseudocordylus microlepidotus
Gibbons (1989), South Africa

GENUS *MADATHAMUGADIA* CHABAUD, ANDERSON & BRYGOO, 1959

1. *Madathamugadia hiepei* Hering-Hagenbeck, Boomker, Petit, Killick-Kendrick & Bain, 1999
Pachydactylus turneri
Hering-Hagenbeck *et al.* (1999), South Africa
2. *Madathamugadia ineichi* Bain, Wanji, Petit, Paperna & Finkelman, 1993
Pseudocordylus microlepidotus
Bain *et al.* (1993), South Africa
3. *Madathamugadia versterae* Bain, Wanji, Petit, Paperna & Finkelman, 1993
Mabuya quinquetaeniata margaritifer
Bain *et al.* (1993), South Africa

HOST/PARASITE CHECK-LIST

Serpentes

Family **ATRACTASPIDIDAE** (African burrowing snakes)GENUS *MACRELAPS*

1. *Macrelaps microlepidotus* (Günther, 1860) (Natal blacksnake)
Uriechis microlepidotus Günther, 1860; *Atractaspis natalensis* Peters, 1877; *Macrelaps microlepidotus* Boulenger, 1896
Kalicephalus costatus micrurus

Family **BOIDAE** (Boas and pythons)GENUS *PYTHON*

1. *Python sebae* A. Smith, 1840 (African rock python)
Python natalensis A. Smith, 1840; *Hortulia natalensis* Gray, 1842
Hexametra quadricornis
Ophidascaris amucronata
Ophidascaris filaria
Polydelphis anoura

Family **VIPERIDAE** (Vipers)GENUS *BITIS*

1. *Bitis arietans* (Merrem, 1820) Günther, 1858 (Puff-adder)
Cobra lachesis Laurenti, 1768; *Cobra clotho* Laurenti, 1768; *Coluber lachesis* Gmelin, 1788; *Coluber bitin* Bonnaterre, 1789; *Coluber intumescens* Donndorf, 1798; *Vipera (Echidna) arietans* Merrem, 1820; *Vipera inflata* Burchell, 1822; *Echidna arietans* Wagler, 1828; *Vipera brachyura* Cuvier, 1829; *Clotho arietans* Gray, 1842; *Clotho lateristriga* Gray, 1842; *Echidna clotho* Steindachner, 1867; *Bitis lachesis* Bogert, 1940
Hexametra quadricornis
Kalicephalus colubri colubri
Kalicephalus viperae obliquus
Ophidascaris intorta
Ophidascaris amucronata
Physalopteroides grayicola
Polydelphis anoura
Rhabdias fuscovenosa
2. *Bitis gabonica* (Duméril & Bibron, 1854) Boulenger, 1896 (Gaboon adder)
Cerastes nasicornis (non Shaw) Hallowell, 1847; *Echidna gabonica* Duméril & Bibron, 1854; *Bitis rhinoceros* (non Schlegel) Peters, 1882; *Cobra gabonica* Mertens, 1937
Hexametra quadricornis
Kalicephalus viperae obliquus
Ophidascaris radiosa
Ophidascaris intorta
3. *Bitis cornuta* (Daudin, 1803) (Many-horned adder)
Verpera cornuta Daudin, 1803; *Vipera lophophrys* Cuvier, 1829; *Cerastes cornuta* Gray, 1842; *Vipera lophophrys* A. Smith, 1843; *Clotho cornuta* Gray, 1849; *Cerastes lophophrys* Duméril & Bibron, 1854; *Cobra cornuta* Mertens, 1937; *Bitis cornuta* Boulenger, 1896
Orneoascaris chrysanthemoides

GENUS *CAUSUS*

1. *Causus rhombeatus* (Lichtenstein, 1823) Wagler, 1830 (Rhombic night-adder)
Sepedon rhombeata Lichtenstein, 1823; *Aspidelaps rhombeatus* Jan, 1859; *Causus rhombeatus* var. *taeniata* Sternfeld, 1912
Hexametra quadricornis
Kalicephalus viperae obliquus
Ophidascaris radiosa
Orneoascaris chrysanthemoides
Rhabdochona puylaerti

Family **COLUBRIDAE** (Typical snakes)GENUS *LAMPROPHIS*

1. *Lamprophis fuliginosus* (Boie, 1827) Broadley, 1983 (Brown house-snake)

Lycodon fuliginosus Boie, 1827; *Lycodon geometricus* (non Schlegel) A. Smith, 1843; *Boaedon lineatum* (pro parte, non Duméril & Bibron) Günther, 1858; *Boaedon capense* Duméril & Bibron 1854; *Alopecion variegatum* Bocage, 1867; *Boodon quadrilineatus* Peters, 1867; *Boaedon quadrilineatus* var. *variegata* Jan, 1870; *Boodon geometricus* Fischer, 1888; *Boodon bipraeocularis* Günther, 1888; *Boodon mentalis* Günther, 1888; *Boodon lineatus* (pro parte) Boulenger, 1893; *Boaedon lineatus* Cott, 1935; *Boaedon mentalis* Rose, 1950; *Boaedon fuliginosus* Pitman, 1958

Hexametra quadricornis
Ophidascaris filaria

GENUS LYCODONOMORPHUS

1. *Lycodonomorphus rufulus* (Lichtenstein, 1823) Loveridge, 1953 (Common brown water-snake)

Coluber rufulus Lichtenstein, 1823; *Coronella leucopilus* A. Smith, 1831; *Coronella rufula* Schlegel (pro parte), 1837; *Lycodonomorphus rufula* Fitzinger, 1843; *Lamprophis rufulus* A. Smith, 1847; *Alabes rufula* Duméril & Bibron, 1854; *Ablabophis rufulus* Boulenger, 1893

Ophidascaris mombasica

GENUS PSEUDOASPIS

1. *Pseudoaspis cana* (Linnaeus, 1754) Cope, 1864 (Mole snake)

Coluber cana Linnaeus, 1754; *Coluber elegantissimus* Laurenti, 1768; *Coluber ocellatus* Gmelin, 1789; *Duberria cana* Fitzinger, 1826; *Coronella cana* Duméril & Bibron, 1854; *Cadmus cuneiformis* Theobald, 1868; *Coronella phocarum* Günther, 1872; *Ophirhina anchietae* Bocage, 1882; *Dasypeltis scabra* (nec Linnaeus) Gaerdes, 1962

Hexametra quadricornis
Kalicephalus colubri colubri
Kalicephalus rotundatus

GENUS PSAMMOPHIS

1. *Psammophis brevirostris* (Peters, 1881) Brandstätter, 1996 (Short-snouted grass-snake)

Psammophis sibilans sibilans (non Linnaeus) FitzSimmons, 1970; *Psammophis sibilans brevirostris* Broadley, 1977; *Psammophis brevirostris* Brandstätter, 1996

Abbreviata affinis
Kalicephalus simus simus

2. *Psammophis subtaeniatus* (Peters, 1882) Boulenger, 1896 (Stripe-bellied sand-snake)

Psammophis moniliger Peters (pro parte, non Daudin), 1854; *Psammophis sibilans* var. *bilineatus* Peters, 1867; *Psammophis sibilans* var. *subtaeniata* Peters, 1882; *Psammophis bocagii* Boulenger, 1896; *Psammophis transvaalensis* Gough, 1908; *Psammophis notostictus* (non Peters) Isenberger, 1955

Hexametra quadricornis
Ophidascaris mombasica

GENUS PSAMMOPHYLAX

1. *Psammophylax tritaeniatus* (Günther, 1868) Loveridge, 1953 (Striped skaapsteker)

Rhagerhis tritaeniatus Günther, 1868; *Coronella tritaeniata* Günther, 1881; *Trimerorhinus tritaeniatus* Boulenger (pro parte) 1896; *Cerastes tritaeniatus* Gaerdes, 1962

Kalicephalus obliquus

GENUS CROTAPHOPELTIS

1. *Crotaphopeltis hotamboeia* (Laurenti, 1768) Barbour & Amaral, 1927 (Herald snake)

Coronella hotamboeia Laurenti, 1768; *Coronella virginica* Laurenti, 1768; *Coluber rufescens* Gmelin, 1789; *Coluber hitamboeia* Gmelin, 1789; *Coluber bicolor* Leach, 1819; *Ophis heterurus* Duvernoy, 1833; *Ophis albocinctus* Duvernoy, 1833; *Coronella rufescens* Schlegel, 1837; *Crotaphopeltis rufescens* A. Smith, 1849; *Dipsas inornatus* A. Smith 1849; *Heterurus rufescens* Duméril & Bibron, 1854; *Leptodeira rufescens* Günther, 1858; *Oxyropus melanocrotaphos* Cope, 1860; *Crotaphopeltis hitamboeia* Peters, 1882; *Leptodira rufescens* Boettger, 1887; *Leptodira hotamboeia* Boulenger, 1896; *Leptodira hitamboeia* Werner, 1898; *Leptodira hotamboeia* Flower, 1929; *Trabophis barnumbrowni* Bogert, 1940

Abbreviata affinis
Kalicephalus costatus micrurus

GENUS DISPHOLIDUS

1. *Dispholidus typus* (A. Smith, 1829) (Boomslang)

Bucephalus typus A. Smith, 1829; *Bucephalus jardinii*, *Bucephalus gutturalis*, *Bucephalus bellii* A. Smith, 1829; *Dispholidus lalandii* Duvernoy, 1832; *Dendrophis colubrina* Schlegel, 1837; *Bucephalus viridis* A. Smith, 1841; *Bucephalus capensis* A. Smith, 1841; *Dendrophis pseudodipsas* Bianconi, 1848; *Dispholidus typicus* Boulenger, 1896; *Thrasops jacksonii mossambicus* Mertens, 1937; *Dispholidus typicus* Boulenger, 1896

Kalicephalus costatus micrurus
Orneoascaris chrysanthemoides

Family ELAPHIDAE (Cobras, mambas and their relatives)

GENUS DENDROASPIS

1. *Dendroaspis angusticeps* (A. Smith, 1849) Hewitt, 1937 (Green mamba)

Naia angusticeps A. Smith, 1849; *Dendroaspis angusticeps* Günther (pro parte), 1858; *Dendroaspis intermedius* Günther, 1865; *Dendroaspis sjöstedti* Lönnberg, 1907

Kalicephalus simus simus

2. *Dendroaspis polylepis* (Günther, 1864) FitzSimmons, 1946 (Black mamba)

Naia angusticeps A. Smith, 1849; *Chloroechis angusticeps* (non A. Smith) Peters, 1854; *Dendroaspis angusticeps* (non A. Smith) Günther (pro parte), 1858; *Dendroaspis polylepis* Günther, 1864; *Dendroaspis antinorii* Peters, 1873; *Dinophis angusticeps* Peters, 1882; *Dendroaspis mamba* Gough, 1908; *Dendroaspis angusticeps* (non A. Smith) Flower, 1937; *Dendroaspis mamba* Rose, 1950

Kalicephalus simus simus

GENUS *HEMACHATUS*

1. *Hemachatus haemachatus* (Lacépède, 1788) Stejneger, 1936 (rinkhals)

Vipera haemachate Lacépède, 1788; *Coluber haemachata* Lacépède, 1789; *Coluber haemachates* Bonnaterre, 1789; *Vipera haemachates* Latreille, 1802; *Sepedon haemachates* Merrem, 1820; *Naia capensis* A. Smith, 1826; *Naja haemachates* Schlegel, 1837; *Aspidelaps haemachates* Jan, 1863; *Sepedon haemachata* Flower, 1929; *Haemachatus haemachates* FitzSimmons, 1946

Rhabdias fuscovenosa

GENUS *NAJA*

1. *Naja melanoleuca* Hallowell, 1857 (Forest cobra)

Naja haje var. *melanoleuca* Hallowell, 1857; *Aspidelaps bocagii* Sauvage, 1884; *Naja haje* var. *leucosticta* Fischer, 1885; *Naia melanoleuca* Boulenger, 1896; *Naja melanoleuca* Bogert, 1942

Hexametra quadricornis

Kalicephalus colubri colubri

Kalicephalus paracolubri paracolubri

Kalicephalus simus simus

Ophidascaris filaria

2. *Naja mossambica* Peters, 1854 (Mozambique spitting cobra)

Naja mossambica Peters, 1854; *Naja nigricollis* (non Reinhardt) Peters, 1882; *Naia nigricollis* Boulenger, 1898; *Naia nigricollis* var. *mossambica* Boulenger, 1896; *Naja nigricollis mossambica* Mertens, 1937; *Naja mossambica* Broadley, 1968

Ophidascaris naiae

Kalicephalus simus simus

3. *Naja nivea* (Linnaeus, 1758) Boie, 1827 (Cape cobra)

Coluber niveus Linnaeus, 1758; *Vipera* (*Echidna*) *flava* Merrem, 1820; *Naja haje* var. *Schlegel*, 1837; *Naja gutturalis* A. Smith, 1838; *Naja intermixta* Duméril & Bibron, 1854; *Naja haje* var. *capensis* Jan, 1863; *Naia flava* Boulenger, 1887; *Naja flava* Sternfeld, 1910

Ophidascaris naiae

Rhabdias fuscovenosa

Squamata

Family SCINCIDAE (Skinks)

GENUS *MABUYA*

1. *Mabuya quinquetaeniata* (Peters, 1854) (Rainbow skink)

Euprepes margaritifera Peters, 1854; *Euprepes savignyi* Peters, 1854; *Euprepis gularis* Gray, 1864; *Euprepis kirkii* Gray, 1864; *Mabouia quinquetaeniata* de Jeude, 1895; *Mabouia margaritifera* Bocage, 1896; *Mabouia binotata* Bocage, 1896

Madathamugadia versterae

Spauligodon morgani

Spauligodon vojteki

2. *Mabuya striata* (Peters, 1844) (Striped skink)

Tropidolepisma striatum Peters, 1844; *Euprepes punctatissimus* A. Smith 1849; *Euprepes sundervallii* A. Smith 1849; *Euprepis granti* Gray, 1864; *Euprepes variegatus* Peters, 1869; *Euprepes wahlbergi* Peters, 1869; *Euprepes grutzneri* Peters, 1869; *Euprepes* (*Euprepis*) *striatus* Peters, 1882; *Mabouia wahlbergii* Boulenger, 1887; *Mabouia grutzneri* Boulenger, 1887; *Mabouia striata* Boulenger, 1887; *Mabuya striata* Parker, 1936

Skrjabinodon mabuiensis

Spauligodon morgani

3. *Mabuya sulcata sulcata* (Peters, 1862) (Western rock skink)

Euprepes olivaceus (non Gray) Peters, 1862; *Euprepes sulcatus* Peters, 1867; *Mabuya sulcata* Boulenger, 1887

Spauligodon petersi

4. *Mabuya varia varia* (Peters, 1867) (Variable skink)

Euprepes (*Euprepis*) *varius* Peters, 1867; *Euprepes olivierii* (non Duméril & Bibron) A. Smith, 1849; *Euprepes olivieri* var. *albopunctatus* Bocage, 1869; *Euprepes* (*Mabuya*) *laevigatus* Peters, 1869; *Euprepes angolensis* Bocage, 1872; *Mabuya homalocephala* part., Boulenger, 1910; *Mabuya varia* Parker, 1936

Skrjabinodon mabuyae

Family LACERTIDAE (Old world lizards)

GENUS *ICHNOTROPIS*

1. *Ichnotropis squamulosa* Peters, 1854 (Common rough-scaled lizard)

Thubunaea fitsimmonsii

Family GEKKONIDAE (Gekkos)

GENUS *HEMIDACTYLUS*

1. *Hemidactylus mabouia* (Moreau de Jonnes, 1818) (Moreau's tropical house gecko)

Gecko mabouia Moreau de Jonnes, 1818; *Hemidactylus mercatorius* Gray 1831; *Hemidactylus gardineri* Boulenger, 1909; *Hemidactylus persimilis* Barbour & Loveridge, 1928; *Hemidactylus mandanus* Loveridge, 1936; *Hemidactylus platycephalus* Peters, 1854; *Hemidactylus mabouia* Duméril & Bibron, 1836

Abbreviata polydentata

Physalopteroides asymmetrica

Skrjabinodon dossae

Spauligodon auziensis (?)

Spauligodon morgani

GENUS *PACHYDACTYLUS*

1. *Pachydactylus bibronii* A. Smith, 1846 (Bibron's thick-toed gecko)

Pachydactylus bibronii A. Smith, 1846; *Homodactylus turneri* Gray, 1864; *Homodactylus bibronii* Gray, 1865; *Pachydactylus elegans* (non Gray) F. Müller, 1885; *Pachydactylus laevigatus* Fischer, 1888; *Pachydactylus bibronii laevigatus* Methuen & Hewitt, 1914

Spauligodon smithi

2. *Pachydactylus turneri* Gray, 1864 (Turner's thick-toed gecko)

Pachydactylus bibronii A. Smith, 1846; *Homodactylus turneri* Gray, 1864; *Homodactylus bibronii* Gray, 1865; *Pachydactylus elegans* (non Gray) F. Müller, 1885; *Pachydactylus bibronii* A. Smith, 1846; *Pachydactylus laevigatus* Fischer, 1888; *Pachydactylus stellatus* Schmidt, 1933; *Pachydactylus bibronii turneri* Parker, 1936

Madathamugadia hiepei
Spauligodon timbavatiensis

Family **AGAMIDAE (Agamas)**

GENUS *ACANTHOSCERCUS*

1. *Acanthocercus atricollis* (A. Smith, 1849) (Southern tree agama)

Agama atricollis A. Smith, 1849; *Stellio capensis* A. Dumeril, 1851; *Stellio nigricollis* Bocage, 1866; *Stellio atricollis* Peters, 1881; *Agama gregorii* Gunther, 1894

Abbreviata nyassae
Strongyluris ornata

GENUS *AGAMA*

1. *Agama atra* Daudin, 1802 (Southern rock agama)

Agama atra Daudin, 1802; *Agama subspinosa* Gray, 1827; *Trapelus subhispidus* Kaup, 1827; *Phrynopis atra* Fitzinger, 1843; *Agama micropholis* Matschie, 1890; *Agama micropterolepis* Boulenger, 1896; *Agama holubi* Bocage, 1896

Parapharyngodon rotundatus
Physalopteroides impar impar
Strongyluris ornata

- 2a. *Agama aculeata aculeata*

Abbreviata sp.
Pharyngodon sp.

- 2b. *Agama aculeata distanti* Boulenger, 1902 (Ground agama)

Agama aculeata (non Merrem) Boettger, 1889; *Agama distanti* Boulenger, 1902;

Physalopteroides agamae

3. *Agama hispida armata* Peters, 1854 (Southern spiny agama)

Agama armata Peters, 1854; *Agama hispida mertensi* Wer-muth, 1967; *Agama hispida distanti* (non Boulenger) Lover-ridge, 1923

Physalopteroides agamae
Skrjabinoptera wetzeli (?)

4. *Agama mossambica* Peters, 1854 (Mozambique agama)

Agama mossambica Peters, 1854; *Agama carniventris* Pe-ters, 1874; *Agama colonorum* part. Loveridge, 1920

Thelandros alatus

Family **CORDYLIDAE (Girdled lizards and their relatives)**

GENUS *CORDYLUS*

1. *Cordylus cordylus* (Linnaeus 1758) (Cape girdled lizard)

Lacerta cordylus Linnaeus 1758; *Corylus verus* Laurenti, 1768; *Stellio cordylus* Daudin, 1802; *Cordylus griseus* Cu-vier, 1829; *Corylus niger* Cuvier, 1829; *Cordylus dorsalis* Cu-vier, 1829; *Zonorus vertebralis* Gray, 1838; *Zonorus cordylus* var. *niger* Rose, 1926; *Cordylus cordylus* Mertens, 1937

Physalopteroides impar impar

GENUS *PSEUDOCORDYLUS*

1. *Pseudocordylus microlepidotus* (Cuvier, 1829) (Cape crag lizard)

Cordylus microlepidotus Cuvier, 1829; *Zonorus microlepi-dotus* Gray, 1831; *Zonorus wittii* Schlegel, 1834; *Cordylus* (*Pseudocordylus*) *montanus* and *melanotus* A. Smith, 1838; *Pseudocordylus montanus* Hewitt, 1927; *Pseudocordylus microlepidotus* Boulenger, 1885

Befilaria pseudocordyli
Madathamugadia ineichi
Parapharyngodon rotundatus

Family **VARANIDAE (Monitor lizards)**

GENUS *VARANUS*

1. *Varanus albigularis* (Daudin, 1802) (Rock moni-tor)

Tupinambis albigularis Daudin, 1802; *Monitor* (*Psammosau-rus*) *albogularis* Gray, 1831; *Varanus gillii* A. Smith, 1831; *Va-ranus albogularis* Dumeril & Bibron, 1836; *Empagusia albo-gularis* Gray, 1838; *Monitor exanthematicus* var. *capensis* Schlegel, 1844; *Regenia albogularis* Gray, 1845; *Monitor albigularis* Peters, 1882; *Varanus exanthematicus albigularis* Schmidt, 1919

Abbreviata baylisi (?)
Orneoascaris schoutedeni
Tanqua tiara

2. *Varanus niloticus* Linnaeus, 1762 (Water moni-tor)

Lacerta nilotica Linnaeus, 1762; *Monitor saurus* Peters, 1882; *Varanus niloticus* Dumeril & Bibron, 1836

Abbreviata quadrovaria
Africana africana
Aplectana macintoshii
Hastospiculum macrophallos
Orneoscaris schoutedeni
Raillietascaris varani
Tanqua tiara

Family CHAMAELEONIDAE (Chameleons)

GENUS CHAMAELEO

1. *Chamaeleo dilepis* Leach, 1819 (Flap-neck chameleon)

Chamaeleo dilepis Leach, 1819; *Chamaeleon quilensis* Bocage, 1895; *Chamaeleon dilepis quilensis* Werner, 1902; *Chamaeleon parvilobus* Boulenger, 1887; *Chamaeleon dilepis parvilobus* Gunther, 1892

Abbreviata ortleppi ortleppi
Africana acuticeps
Hexametra applanata
Hexametra hexametra
Orneoscaris chrysanthemoides
Skrjabinoptera chamaeleontis
Strongyluris brevicaudata
Strongyluris elegans

2. *Chamaeleo namaquensis* A. Smith, 1831 (Namaqua chameleon)

Chamaeleo namaquensis A. Smith, 1831; *Chamaeleon namaquensis* Boulenger, 1887; *Chamaeleo tuberculiferus* Gray, 1845; *Phumanola namaquensis* Gray, 1864

Abbreviata damarensis

GENUS BRADYPODION

1. *Bradypodion pumila pumila* (Daudin, 1802) (Cape dwarf chameleon)

Chamaeleo pumilus Daudin, 1802; *Chamaeleon pumilus* Boulenger, 1887; *Chamaeleon margaritaeus* Merrem, 1820; *Bradypodium pumilus* Fitzinger, 1843; *Lophosaura pumila* Gray, 1864; *Chamaeleon ventralis (pro parte)* Werner, 1902; *Chamaeleon damaranus (pro parte)* Werner, 1902; *Microsaura pumila pumila* Fitzsimmons, 1943?

Strongyluris brevicaudata
Strongyluris capensis

ACKNOWLEDGEMENTS

We wish to express our appreciation to the following persons and institutions: Mr Wulf Haacke, Natural History Museum, Gauteng, and Mr Richard Newbery Department of Nature Conservation, Gauteng, for much help as regards the reptiles; the Departments of Environmental Affairs of the Mpumalanga Province, Gauteng Province, North West Province

and Northern Province for the collecting permits, and the Timbavati/Umbabat/Klaserie Private Game Reserves, the Hoedspruit Nature Reserve, the Blyde-river Canyon Nature Reserve, the Delftzyl Government Farm and the Molopo Nature Reserve for allowing us to catch the reptiles at these sites.

This study was financially supported by the Arthur & Aenne Feindt Stiftung, Hamburg, Germany.

REFERENCES

- ANDERSON, R.C., CHABAUD, A. & WILLMOTT, S. 1974–1984. Eds. *CIH Keys to the Nematode Parasites of Vertebrates*. No. 1–10. Commonwealth Institute of Helminthology: St. Albans.
- BAIN, O., WANJI, S., PETIT, G., PAPERNA, I. & FINKELMAN, S. 1993. Filaires Splendidofilariinae de lézards: nouvelles espèces, redescription, cycle chez phlébotome. *Systematic Parasitology*, 26:97–115.
- BAKER, M.R. 1980. Revision of Old World species of the genus *Aplectana* Railliet & Henry, 1916 (Nematoda, Cosmocercidae). *Bulletin du Muséum National d'Histoire Naturelle, Paris*, 4:955–998.
- BAKER, M.R. 1987. Synopsis of the nematoda parasitic in amphibians and reptiles. *Memorial University of Newfoundland: Occasional Papers in Biology*, 11:1–325.
- BAYLIS, H.A. 1920. On the classification of the Ascaridae. II. The *Polydelphis* group, with some account of other ascarids parasitic in snakes. *Parasitology*, 12:411–426.
- BAYLIS, H.A. 1929. Some parasitic nematodes from the Uluguru and Usambara Mountains, Tanganyika Territory. *Annals and Magazine of Natural History*, ser. 10, 4:372–381.
- BAYLIS, H.A. 1937. Some parasitic worms from East African chameleons. *Annals and Magazine of Natural History*, ser. 10, 19:585–593.
- BAYLIS, H.A. 1939. Some parasitic worms from the Belgian Congo. *Annals and Magazine of Natural History*, ser. 11, 5:401–416.
- BAYLIS, H.A. 1940. On a further collection of worms from the Belgian Congo. *Annals and Magazine of Natural History*, ser. 10, 19:584–593.
- BAYLIS, H.A. & LANE, C. 1920. A revision of the nematode family Gnathostomidae. *Proceedings of the Zoological Society of London*, 3:245–309.
- BRANCH, B. 1998. *Field guide to the snakes and other reptiles of southern Africa*. Cape Town: Struik Publishers (Pty) Ltd.
- BROADLEY, D.G. 1983. *FitzSimmons' Snakes of Southern Africa*. Johannesburg, Cape Town: Delta Books Ltd.
- BURSEY, C.R., McALLISTER, C.T. & FREED, P.S. 1997. *Spauligodon petersi* sp. n. and *Spauligodon smithi* sp. n. from lizards of Cape Province, South Africa. *Journal of the Helminthological Society of Washington*, 64:234–239.
- BWANGAMOI, O. 1968. Helminth parasites of domestic and wild animals in Uganda. *Bulletin of Epizootic Disease of Africa*, 16: 429–454.
- CAMPANA-ROUGET, Y. & CHABAUD, A.G. 1950. Note sur quelques nematodes africains collection Camille Desportes. *Annales de Parasitologie*, 25:308–324.
- CHABAUD, A.G. 1956. Essai de révision des physaloptères parasites de reptiles. *Annales de Parasitologie*, 31:29–52.
- CHABAUD, A.G. & BRYGOO, E.R. 1960. Nématodes parasites de caméléons malgaches. *Mémoires l'Institut Scientifique de Madagascar*, ser. A, 14:125–159.

- COWPER, S.G. 1969. Observations on parasites of primates, dogs, and some other hosts in Nigeria, mainly in the Ibadan area. *Journal of the West African Scientific Association*, 13:39–52.
- DAUBNEY, R. 1923. Notes on the genus *Diaphanocephalus* (Nematoda: Strongylidae), parasitic in reptiles, with a description of three new species. *Parasitology*, 15:67–75.
- FANTHAM, H.B. & PORTER, A. 1950. The endoparasites of certain South African snakes, together with some remarks on their structure and effects on their hosts. *Proceedings of the Zoological Society of London*, 120:599–647
- FREITAS, J.F.T. 1957. Sobre os gêneros *Thelandros* Wedl, 1862 e *Parapharyngodon* Chatterji, 1933, com descrição de *Parapharyngodon alvarengai* sp. n. (Nematoda, Oxyuroidea). *Memórias do Instituto Oswaldo Cruz*, 55:21–45.
- FITZSIMMONS, W.M. 1961. A new nematode *Pharyngodon morgani* sp. nov., intestinal parasite of a lizard, *Mabuya striata*, in Nyasaland. *Parasitology*, 51:395–399.
- FITZSIMMONS, W.M. 1964. *Abbreviata nyassae* n. sp. (Physalopteridae, Spiruroidea) from *Agama attricollis* in Nyasaland. *Journal of Helminthology*, 38:21–24.
- GEDOELST, L. 1916. Notes sur la faune parasitaire du Congo Belge. *Revue Zoologique Africaine*, 5:1–90.
- GHADIRIAN, E. 1968. Nématodes parasites d'ophidiens Malgaches. *Mémoires du Muséum National d'Histoire Naturelle*, 109:1–54.
- GIBBONS, L.M. 1989. *Befilaria pseudocordyli* n. sp. (Nematoda, Filarioidea) from the small-scaled girdled lizard, *Pseudocordylus microlepidotus*. *Revue Zoologique Africaine*, 103:35–39.
- GRABER, M. 1981. Parasites internes des vertébrés domestiques et sauvages autres que les primates de la République Populaire du Congo (d'après la collection Cassard-Chambron, 1956–1960). Rôle pathogène-prophylaxie. *Revue d'Élevage et de Médecine Vétérinaire des Pays Tropicaux*, 34:155–167.
- GRETILLAT, S. & GAILLARD, M. 1966. Première note sur quelques endoparasites des animaux sauvages de Haute-Casamance (Sénégal). *Revue d'Élevage et de Médecine Vétérinaire des Pays Tropicaux*, 18:395–403
- HARWOOD, P.D. 1935. Notes on Tennessee helminths. II. Two new species of *Strongyluris* (Nematoda) and notes on the genus. *Journal of the Tennessee Academy of Science*, 19:132–141.
- HEIDEMAN, N.J.L. 1995. Nematode incidence in *Agama aculeata aculeata* and *Agama planiceps planiceps* in the Windhoek area, Namibia. *Journal of the Herpetological Association of Africa*, 44:22–23.
- HERING-HAGENBECK, S.F.B.N. & BOOMKER, J. 1998. *Spauligodon timbavatiensis* n. sp. (Nematoda: Pharyngodonidae) from *Pachydactylus laevigatus turneri* (Sauria: Gekkonidae) in the Northern Province, Republic of South Africa. *Onderstepoort Journal of Veterinary Research*, 65:153–158.
- HERING-HAGENBECK, S.F.B.N., BOOMKER, J., PETIT, G., KILLICK-KENDRICK, M. & BAIN, O. 1999. Description and life cycle of *Madathamugadia hiepei* n. sp. (Splendidofilariinae: Nematoda), a parasite of a South African gecko. *Systematic Parasitology*, in press.
- HÖRCHNER, F. & WEISSENBERG, H. 1965. Drei neue Pysalopteren-Arten aus Agamiden (Squamata) Zentralafrikas. *Zeitschrift für Parasitenkunde*, 25:491–500.
- KHALIL, L.F. & POLLING, L. 1997. *Check list of the helminth parasites of freshwater fishes*. South Africa: University of the North.
- LE VAN HOA, 1960. Synonymie des genres *Amplichaecum* Baylis 1920 et *Orneoascaris* Skrjabin 1916. *Annales de Parasitologie Humaine et Comparée*, 35:760–761.
- MALAN, J.R. 1939. Some helminths of South African lizards. *Onderstepoort Journal of Veterinary Science and Animal Industry*, 12:21–74.
- MORAVEC, F. 1983. *Rhabdochona puylaerti* sp. n. (Nematoda: Rhabdochoniidae) recorded from the African viper *Causus rhombeatus* (Lichtenstein). *Folia Parasitologica (Praha)*, 30: 313–317
- MORAVEC, F., BARUS, V. & RYSAV'Y, B. 1987. On parasitic nematodes of the families Heterakidae and Pharyngodonidae from reptiles in Egypt. *Folia Parasitologica*, 34:269–280.
- MORGAN, B.B. 1945. The nematode genus *Abbreviata* (Travassos, 1920) Schulz, 1927. *American Midland Naturalist*, 34:485–490.
- MYERS, B.-J., WOLFGANG, R.W. & KUNTZ, R.E. 1960. Helminth parasites from vertebrates taken in the Sudan (East Africa). *Canadian Journal of Zoology*, 38:833–836.
- ORTLEPP, R. 1922. The nematode genus *Physaloptera*, Rud.. *Proceedings of the Zoological Society of London*, 999–1107.
- ORTLEPP, R. 1923. Observations on the nematode genera *Kalichephalus*, *Diaphalocephalus*, and *Occipitodotus* g. n., and on the larval development of *Kalichephalus philodryadus* sp. n. *Journal of Helminthology*, 1:165–189.
- ORTLEPP, R. 1931. *Thubunaea fritzsimoni* sp. n., a fourth species of the genus *Thubunaea*, Seurat, 1914. *Journal of the South African Veterinary Medical Association*, 2:128–131.
- PEIRCE, M.A. 1984. Some parasites of reptiles from Zambia and Indian Ocean islands with a description of *Haemogregarina zambiensis* sp. nov. from *Dispholydus typus* (Colubridae). *Journal of Natural History*, 18:211–217.
- PRUDHOE, S. & HARRIS, M.T. 1971. Helminths from chamaeleons in southern Africa. *Revue de Zoologie et Botanique africaine*, 84:334–343.
- RASHEED, S. 1965. Some parasitic nematodes from Cameroons (W. Africa). *Journal of Helminthology*, 39:67–100.
- ROUND, M.C. 1968. *Check list of the helminth parasites of African mammals of the orders Carnivora, Tubulidentata, Proboscidea, Hyracoidea, Artiodactyla and Perissodactyla* (Technical Communication No. 38, Commonwealth Bureau of Helminthology, St. Albans).
- SANDGROUND, J.H. 1928. Some new cestode and nematode parasites from Tanganyika Territory. *Proceedings of the Boston Society for Natural History*, 39:131–150.
- SANDGROUND, J.H. 1933. Reports on the scientific results of an expedition to the south-western highland of Tanganyika Territory. VI. Parasitic nematodes from East Africa and Southern Rhodesia. *Bulletin of the Museum of Comparative Zoology, Harvard College*, 75:263–293.
- SCHAD, G.A. 1962. Studies on the genus *Kalichephalus* (Nematoda: Diaphanocephalidae). II. A taxonomic revision of the genus *Kalichephalus* Molin, 1861. *Canadian Journal of Zoology*, 40:1035–1167.
- SCHMIDT, G.D. & CANARIS, A.G. 1968. Records of parasitic nematodes in Kenya. *Journal of the East Africa Natural History Society and National Museum*, 27:155–156.
- SCHMIDT, G.D. & KUNTZ, R.E. 1972. Nematode parasites of Oceanica. XIX. Report on a collection from Philippine reptiles. *Transactions of the American Microscopic Society*, 91:63–66.
- SCHULTZ, R.E.S. 1927. *Die Familie Physalopteridae Leiper, 1908 (Nematoda) und die Prinzipien ihrer Klassifikation*. *Sbornik Rabot ppo Gelmintologii Posvyashchennyy K.I. Skryabinu, Izdatelstvo Akademii Nauk SSSR, Moscow*: 287–312.
- SIMBOTWE, M.P. 1979. Parasites of Zambian reptiles. *African Journal of Ecology*, 17:177–180.

- SIMONSEN, P.E. & SARDA, R.K. 1985. Helminth and arthropod parasites of *Hemidactylus mabouia* from Tanzania. *Journal of Herpetology*, 19:428–430.
- SPRENT, J.F.A. 1978. Ascaridoid nematodes of amphibians and reptiles: *Polydelphis*, *Travassosascaris* n.g. and *Hexametra*. *Journal of Helminthology*, 52:355–384.
- SPRENT, J.F.A. 1985a. Ascaridoid nematodes of amphibians and reptiles: *Orneoascaris*. *Annales de Parasitologie Humaine et Comparée*, 60:33–55.
- SPRENT, J.F.A. 1985b. Ascaridoid nematodes of amphibians and reptiles: *Raillietascaris* n. g. *Annales de Parasitologie Humaine et Comparée*, 60:601–611.
- SPRENT, J.F.A. & MCKEOWN, E.A. 1979. Studies on ascaridoid nematodes in pythons: development in the definitive host. *Dynamic Aspects of Host-Parasite Relationships*, 3:155–176.
- THURSTON, J.P. 1971. Notes on *Hastospiculum macrophallos* (Filarioidea: Diplotriaeidae) from *Varanus niloticus*, including observations on body wall muscle cell interconnections. *Revue de Zoologie et Botanique africaine*, 84:375–380.
- THWAITE, J.W. 1926. Notes on some nematodes in the museum of the Liverpool School of Tropical Medicine. *Annals of Tropical Medicine and Parasitology*, 20:273–278.
- VAN DEN BERGHE, H.A. 1943. Enquête parasitologique. II. Helminthes parasites. Fasc. (2) Mission Van Den Berghe, 1936. *Exploration du Parc National Albert*, 3–30.
- VON LINSTOW, O.F.B. 1899. Nematoden aus der Berliner Zoologischen Sammlung. *Mitteilungen der Zoologischen Sammlung Berlin*, 1:1–28.
- VON LINSTOW, O.F.B. 1908. Nematoden und Acanthocephalen aus dem westlichen und zentralen Südafrika. *Jenaische Denkschriften*, 13:19–28.
- VUYLSTEKE, C. 1964. Mission de zoologie médicale au Maniema (Congo, Leopoldville), *Annales de Musée Royal de l'Afrique Centrale*, 132:41–66.
- WAHID, S. 1961. On *Amplichaecum iguanae* n.sp. with notes on *Hexametra sewelli*, *Kalicephalus micrurus* and *Viguiera euryoptera*. *Journal of Helminthology*, 35:353–360.