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A systematic monograph of the Recent Pentastomida, with a compilation of their hosts

M.L. Christoffersen & J.E. De Assis

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We compile all published information on the Recent Pentastomida published to date, including complete synonyms, and species distributions. All host species are cited and their names updated. A taxonomical history of the group, a synthesis of phylogenetic information for the taxon, and a summary of the pentastomes by host groups, with accounts of the illnesses they provoke, are also provided.

Introduction

In order to produce an overview on all aspects of the biology of the Recent Pentastomida, to be published in *Treatise of Zoology* (an update on Grasse's *Traité de Zoologie*) (Christoffersen & De Assis, *in preparation*), we have found it necessary to compile all published information on the Pentastomida to date.

As a result, we present below a complete list of species, with full synonyms and host information, updated in an appendix to presently used species names. The data complement and update a taxonomic list provided by Poore (2012a, b).

A summary of the implications of these results is published in the updated treatise mentioned above. Here we provide the monograph on which that synthesis is based.

Historical

Almeida & Christoffersen (1999) delineated five important periods in the systematic history of the Pentastomida. The first goes from the pioneer descriptions and efforts to understand the pentastomids (Frölich, 1789; Humboldt, 1812; Beneden, 1849a, b; Diesing, 1850) and culminates with the account of the *Linguatula* by Leuckart (1860). The name Linguatulidae first appeared in Haldeman (1851). The second period culminates with the system of Sambon (1922a, b). The third period encompasses the revisions of Heymons (1935, 1941a, b, c). The fourth period starts with the work of Fain (1961). Nicoli (1963), Nicoli & Nicoli (1966) and Self (1969) produced excellent syntheses on the systematics, taxonomy, and geographic distribution of the Pentastomida during this period. The last period consists of important taxonomic revisions of several families of Pentastomida (e.g., Riley et al., 1997), and the discovery and description of Paleozoic fossils by Andres (1989), Waloszek & Müller (1994) and Waloszek et al. (1994). Other

breakthroughs in this period are represented by the faunistic inventories of the Australian and African pentastomids (e.g., Riley & Spratt, 1987; Junker et al., 2000), the syntheses of general aspects of reproduction (e.g., Riley, 1992a), and advances in ultrastructural knowledge (Storch, 1993), and phylogeny (Almeida & Christoffersen, 1999). The account of the Australian fauna is now superseded by Poore & Spratt (2011), while the nomenclature of the group has been reviewed by Poore (2012a, b).

Detailed account of first period; The eminent French veterinarian Chabert (1787) was first to bring a pentastomid to notice. He discovered a "worm" in the depths of the nasal cavities of dogs and horses, which he took for the tapeworm *Ténia lancéolé*. Abilgaard (1789) in Denmark encountered *Taenia caprina* in the body-cavity of a goat and Meyer (1789) found the adult form of the same species (but named *Taenia rhinaria*) in a goat in Denmark. Frölich (1789) named a new genus and species of helminthes, *Linguatula serrata* from larvae in the lung of a hare (Alcock, 1923). Because all these forms are now considered to belong to *Linguatula serrata* (Nicoli, 1963), Frölich is traditionally considered the first descriptor of a linguatulid. Bosc (1811) later discovered a "worm" in the lung of a guinea-pig, *Tetragulus caviae*, though really it was also *L. serrata* (Alcock, 1923).

The famous Humboldt (1799) encountered a puzzling "worm" in South America, which he classed as *Echinorhynchus*, then *Distoma*, and finally named it *Porocephalus crotali* Humboldt, 1812 (Alcock, 1923; Hett, 1924; Nicoli, 1963). This same species was later redescribed by Rudolphi (1819) as *Pentastomum proboscideum* (Hett, 1924).

The influential Rudolphi (1812, 1819) finally deduced that all the afore-mentioned "worms" formed a single zoological group, although he failed to position this group. Taking the mouth and the four hooked-pockets for suckers, he eventually placed them under the subgeneric name *Pentastomum*, under the combination *Polystoma* (*Pentastoma*) Rudolphi (1812: 106). The type-species, *Polystoma proboscideum* Rudolphi, 1812 is an objective synonym of *Porocephalus crotali* Humboldt, 1812, by monotypy (Poore, 2012a: 226). *Pentastomum* was placed among the many-sucker flukes, between *Tristomum* and *Polystomum* (Alcock, 1923).

The genus/subgenus *Pentastomum* remained either among the trematodes or among the nematodes until 1831, when Mehlis (in an unpublished work made known by Nördmann, 1832) recognized that it was something quite removed from any of the intestinal worms. But neither of these two authors or their immediate successors (Owen, Diesing) understood the true relations of *Pentastomum*. Diesing (1835) placed *Pentastomum* in a separate order, *Acanthotheca*, between the nematodes and trematodes (Alcock, 1923).

Dujardin (1845) showed that these *Acanthotheca* differed from every kind of parasitic worm, and approached the Arthropoda, for having striated muscles. Beneden (1949a, b) put *Pentastomum* in the Crustacea on embryological and anatomical grounds (Nicoli, 1963).

Prüner (1847) observed parasites, which he took for nematodes or for insect larvae, encysted in the liver of native populations in Cairo. Bilharz (1856), however, recognized what they were, and Siebold (1853) referred to them as a new species of *Pentastomum*. F. A. von Zenker (1854) found a different species of *Pentastomum* to be common in the liver of man also in Europe. The attention of more than one observer was directed to the fact that these human parasites were not sexually developed. Gurlt (1845) attached

these developmental stages to *Pentastomum*. Leuckart (1860) provided the experimental proof for the above hypothesis, and traced the Pentastomidae as a family of mites (Alcock, 1923).

The landmark in the history of the group remains the classical memoir of Leuckart (1860), who followed experimentally the life-cycle of a linguatulid, which resembled that of a tapeworm. This memoir contains a very complete account of the gradual elucidation of the nature and true relations of this aberrant group of parasites (Alcock, 1923). Leuckart (1860) remarked that Linguatulida became interesting as human parasites, and it was from this interest that their life-history seems to have been approached. This is the first comprehensive study of the morphology and life cycle of the pentastomes. He demonstrated that *Pentastomum denticulatum* is the larval stage of *P. taenioides*, and that both are identical to *Linguatula serrata* (Stunkard & Gandal, 1968). Unfortunately, he and other German investigators, influenced by the prestige of Rudolphi, assigned species to the genus *Pentastomum*, which is an objective synonym of *Porocephalus* (Poore, 2012a: 226). Leuckart (1860) ended by dividing *Pentastomum* into two subgenera: *Linguatula* and *Pentastomum* (Hett, 1924). Stunkard & Gandal's (1968) belief that *Pentastomum*, as used for the species known by Leuckart (1860), is a junior synonym of *Linguatula*, is incorrect, because they were discussing species other than the type material. Also the affirmation that *Linguatula serrata*, *Porocephalus crotali*, and *Pentastomum proboscideum* were apparently named on the basis of the same animal (Hett, 1924; Nicoli, 1963) is misleading, because *Linguatula serrata* came from a hare, while the other two species came from a caiman.

Summarizing the early literature, the tongue-worms were included in the family Linguatulidae Haldeman, 1851 and comprised three genera: *Linguatula*, *Porocephalus*, and *Pentastoma*.

Detailed account of second period: Stiles (1891b, c) recognized the priority of the name *Porocephalus* over that of *Pentastomum*, but proposed to retain the latter because of its widespread use (Hett, 1924). Thus although *Porocephalus crotali* and *Pentastomum proboscideum* are objective synonyms, Shipley (1898), in the first revision of the known species, placed these species among the two genera *Pentastomum* and *Porocephalus*. So *Porocephalus*, against the recommendations of the ICZN, still remains in use. On the other hand, Shipley (1898) regarded the distinctions between *Linguatula* and *Pentastomum* (= *Porocephalus*) as sufficiently important to establish their generic rank (Hett, 1924).

Ward (1899) established *Reighardia*, but included no species under this taxon. Subsequently Heymons & Vitzthum (1935a) designated *Pentastomum sternaes* Diesing, 1863 as the type species for *Reighardia* (see Poore, 2012a: 219). Vaney & Sambon (1910) described the new genus *Raillietiella* (Hett, 1924).

Sambon (1922a, b) published a complete systematic review of the family Linguatulidae, adding several new genera (Hett, 1924). Morphology, hosts, and geographical distribution served to rearrange the Pentastomida into the subfamilies Raillietiellinae and Linguatulinae (Sambon, 1922a, b). Sambon (1922a, b) also established the main division between raillietiellids (uterus sacciform, female genital-opening at the anterior end of the abdomen, mouth anterior to the hooks, salivary glands moderately developed) and porocephalids (greatly-elongate, coiled, tubular uterus, female genital-opening at posterior end of body, mouth in line with or posterior to hooks, salivary glands

extending the whole length of body) (Alcock, 1923). We owe to Sambon (1922a, b) the dual system used until quite recently of a primitive Raillietiellinae and an advanced Porocephalinae. In later classifications (Heymons, 1935) these groups have been upgraded to the orders Cephalobaenida and Porocephalida.

Sambon transferred several species to *Raillietiella* and included the genus *Reighardia* in the subfamily Raillietiellinae. This concept was expanded to include *Cephalobaena* in the composite taxon Cephalobaenidae (Heymons, 1922).

On the other hand, Sambon (1922a, b) divided the Porocephalinae into three sections: 1. Sebekini, with the genera *Sebekia*; *Alofia*; and *Leiperia*; 2. Porocephalini, with the genera *Porocephalus*, *Kiricephalus*, *Armillifer*, and *Waddycephalus*; and 3. Linguatulini, with the genera *Linguatula* and *Subtriquetra* (Stunkard & Gandal, 1968). These taxa, now expanded in composition and upgraded herein to the Sebekidae, Porocephalidae, Subtriquetridae, and Linguatulidae, remain in use as valid monophyletic taxa. Sambon (1922a, b) had placed the genus *Linguatula* in the subfamily Porocephalinae, an obvious error, since it was the nomenclatural type of the family and should have been the type of the subfamily to which it was assigned.

Detailed account of third period: Haffner (1926a, b) provided an overview of the sense organs of pentastomids, which serves as a basis for Heymon's (1935) summary treatment. Even though Heymons (1935) recognized that if *Raillietiella* and *Cephalobaena* are in the same subfamily (Sambon, 1922a), the name of the family must be Raillietielidae, he nevertheless created two families, Cephalobaenidae and Raillietiellidae.

Heymons (1935) also noted that Pentastomida and Linguatulida were equally available names for the tongue-worms; and although *Linguatula* antedates *Pentastoma*, he chose to follow Leuckart (1860) and adopted Pentastomida, accorded the new taxonomic status of a class, because Rudolphi (1809) had formulated a concept of the group, whereas Frölich (1789) had merely described a larva from the lungs of the hare. Linguatulida thus became a synonym of Pentastomida, but early references are equivocal, because authors referred to all pentastomids as linguatules, lingutulids, linguatulidans, etc. Rudolphi's (1809) concept of the Pentastomida was vague, since he included *Pentastomum* in the Trematoda, between *Polystomum* and *Tristomum*, on the mistaken belief that the hooks of the pentastomes were comparable to the suckers and hooks of the pectobothriid trematodes, which at the time were believed to be anterior in position.

The system of the Pentastomida is further elaborated in Heymons & Vitzthum (1935a) and finally in Heymons (1939a).

Detailed account of fourth period: Fain (1961) produced a monographic treatise based on extensive field studies from Africa. His classification of the Porocephalida revised Heymons' (1935) scheme and was adopted with minor modifications by Nicoli (1963) and Self (1969). Fain's subdivision of Porocephalida into two suborders (Porocephaloidea and Linguatuloidea) was initially not generally accepted. On the other hand, his suggestion that *Subtriquetra* (now Subtriquetridae) be separated from the Linguatulidae has been largely followed. He created the family Subtriquetridae for *Subtriquetra*, but placed it in the Porocephaloidea rather than in the Linguatuloidea, a relationship subsequently established by Almeida & Christoffersen (1999) with cladistic methods.

Nicoli (1963) furnished a vivid historical account of the Pentastomida. Osche's (1963) detailed treatment of embryos and eggs of *Reighardia sterna* suggested arthro-

pod affinities for the pentastomids. Doucet's (1965) comparative work of morphology, especially of the nervous system, indicated much in common among annelids, pentastomids, and arthropods. Legendre (1967) summarizes the morphology, histology and development of pentastomes. Haffner (1971, 1973, 1977), and Haffner et al. (1969) provide excellent contributions to the anatomy, development, and systematic placement of the Pentastomida. Mill & Riley (1972) account for the ultrastructure of the body wall musculature in *Reighardia*.

Detailed account of fifth period: Traditionally, two orders had been recognized on the basis of fundamentally different reproductive strategies. However, in the first cladistic analyses of the Pentastomida, Almeida & Christoffersen (1999) challenged several older ideas (Sambon, 1922a, b) and indicated that only the reproductive mode found in Porocephalida is apomorphic, while the plesiomorphic reproductive mode has been retained in the basal lineages Cephalobaenidae, Raillietiellidae, and Reighardiidae. The traditional composite taxon Cephalobaenida was thus recognized as being paraphyletic, despite Böckeler's (1990) excellent summary of the classical division into Cephalobaenida and Porocephalida. Almeida & Christoffersen (2002) summarised biological data of South American species and presented new hypotheses on the phylogenetic position of pentastomids (Waloszek et al., 2006).

Andres (1989) finally reported fossil pentastomids for the first time from the Lower Ordovician of the Isle of Öland, Sweden. Substantial Paleozoic fossil data was added by Waloszek and co-workers (Waloszek & Müller, 1994; Waloszek et al., 1994, 2006; Waloszek & Maas, 2005). With the discovery of an extended fossil record in the Paleozoic which extends into the Cambrian period it becomes evident that the great antiquity of the Pentastomida justifies the establishment of phylum rank to this zoological group. Castellani et al. (2011) present the last overview on fossil pentastomids, including insightful comparisons with the recent forms.

Important revisions were conducted during this period, including those of Porocephalidae (Riley & Walters, 1980), Armilliferidae (Riley & Self, 1981b, 1982), Raillietiellidae (Ali et al., 1981, 1982a, b, 1984a, b, 1985; Ali & Riley, 1983; Riley et al., 1988, 1991; McAllister et al., 1993; Riley & Heideman, 1998), Sebekidae (Self & Rego, 1985; Riley et al., 1990; Riley, 1994; Riley & Huchzermeyer, 1995a, b; Riley et al., 1997), and Linguatulidae (Riley et al., 1987). Other breakthroughs in this period are represented by the faunistic inventories of the African (Junker et al., 1998a, b, 1999, 2000) and Australian (Riley et al., 1985; Riley & Spratt, 1987; Poore & Spratt, 2011) pentastomids, the syntheses of general aspects of reproduction (Riley, 1983, 1986, 1988, 1992a), and advances in ultrastructural knowledge (Storch, 1993).

Because traditional criteria to distinguish the numerous species of *Raillietiella* were known to be unreliable (Self, 1969), Ali et al. (1981, 1982a, 1984a, b, 1985), Self & Rego (1985), and Riley et al. (1991) have attempted a revision based on the form of the male copulatory spicule. These papers have also provided a good summary on the known distribution of the sense organs in *Raillietiella*. Because morphological features used in pentastomid taxonomy change as the parasite transitions through developmental stages in the definitive host, Kelehear et al. (2011) have combined morphology, allometry and molecular approaches to identify species of *Raillietiella*. Important revisions have been attempted for the genera *Waddicephalus* (Riley & Self, 1981a), *Armillifer* (Riley & Self, 1981b) and *Parasambonia* (Riley & Self, 1982).

Böckeler (1984a) has provided new data on the embryogenesis and differentiation of the nervous system of the pentastomids and on ovary morphology and ovogenesis (Böckeler, 1984b). The ontogeny and ultrastructure of several gland systems of *Raillietiella* were studied by Stendel-Seidel (1995), Stendel-Seidel & Gabrielle (1977), and Stender-Seidel et al. (1997a, b, 1999, 2000).

The ultrastructure of the digestive system and the mechanism of digestion in *Reighardia* and *Raillietilla* were further explored by Thomas & Böckeler (1992a, b, 1994), Thomas & Stender-Seidel (1996), and Thomas et al. (1999b, c). General ultrastructural updates on the morphology of Pentastomida are provided by Storch (1984, 1993).

Our knowledge of the Sebekidae have been considerably advanced by the studies of Riley et al. (1990), Riley & Huchzermeyer (1995a, b, 1996), Junker (1996, 2002), Junker et al. (1998b, 1999, 2000, 2003), and Junker & Boomker (2002, 2006). The unpublished dissertation of Junker (2002) provides the first cladogram of the Sebekidae, although several taxa (Sebekidae, the *Selfia* group [*Selfia* + *Alofia* + *Disesingia*], *Selfia* + *Alofia*, *Leiperia*, *Sambonia*, *Selfia*, *Agema* and *Sebekia*) were not provided with apomorphies in the cladogram.

The free-living larval development of *Subtriquetra subtriquetra*, a parasite of South American crocodiles, was studied by Winch & Riley (1986a). Junker et al. (1998a) and Luus-Powell et al. (2008) provide new data on parasites of fish from South Africa. Paré (2008) furnishes a useful overview of pentastomes occurring in vertebrates and the diseases they provoke.

Almeida & Christoffersen (1999) reconstructed the first phylogeny of the Pentastomida. Röhlig et al. (2010) provide an annotated catalogue based mainly on Heymon's material. Castellani et al. (2011) furnish the latest overview comparing fossil material with recent species. Poore (2012a) contributes a nomenclatural revision of the Recent Pentastomida and corrected authorship of the name Pentastomida (Poore, 2012b).

System of the Pentastomida

The following phylogenetic systematization of Pentastomida is based mainly on Almeida & Christoffersen (1999) and Junker (2002) (figs 1-4):

Phylum Pentastomida Huxley, 1869 (8 Paleozoic fossil species, 144 Recent species and subspecies)

Pan-Pentastomida [stem-group fossil pentastomids + crown-group Recent pentastomids]

Stem-group pentastomids (8 Paleozoic fossil species)

Class Eupentastomida Waloszek, Repetski & Maas, 2006 [crown-group Recent pentastomids] (131 valid species and subspecies, 13 doubtful species)

Order Cephalobaenida Heymons, 1935 (1 valid species, 1 doubtful species)

Family Cephalobaenidae Heymons, 1922 (1 valid species, 1 doubtful species)

Genus *Cephalobaena* Heymons, 1922 (1 valid species)

Genus *Bothriopsiella* Cavalieri, 1967 (1 doubtful genus and species; genus omitted in Poore (2012a).

Order Raillietiellida Almeida & Christoffersen, 1999 (42 species and subspecies)

Family Raillietiellidae Sambon, 1922 (43 valid species and subspecies, 1 doubtful species)

- Genus *Raillietiella* Sambon, in Vaney & Sambon, 1910 (43 valid species and subspecies, 1 doubtful species)
- Genus *Yeliarella* Spratt, 2010 (1 valid species)
- Order Reighardiida Almeida & Christoffersen, 1999 (3 valid species)
 - Family Reighardiidae Heymons & Vitzthum, 1935 (3 valid species)
 - Genus *Hispania* J. Martínez, Criado-Fornelio, Lanzarot, Fernández-García, Rodríguez-Caabeiro & Merino, 2004 (1 valid species)
 - Genus *Reighardia* Ward, 1899 (2 valid species)
- Order Porocephalida Heymons, 1935 (84 valid species and subspecies, 11 doubtful species)
 - Superfamily Linguatuloidea Haldeman, 1851 (10 valid species and subspecies)
 - Family Linguatulidae Leuckart, 1860a (6 valid species and subspecies)
 - Genus *Linguatula* Frölich, 1789 (5 valid species and subspecies)
 - Genus *Neolinguatula* Haffner (in Haffner, Rack & Sachs), 1969 (1 valid species)
 - Family Subtriquetridae Fain, 1961 (4 valid species)
 - Genus *Subtriquetra* Sambon, 1922 (4 valid species)
 - Superfamily Porocephaloidea Sambon, 1922 (74 valid species and subspecies, 11 doubtful species)
 - Family Sebekidae Sambon, 1922 (34 valid species, 7 doubtful species)
 - Subfamily Leiperiinae, **new subfamily** (3 valid species) [diagnostic apomorphies (same as for monotypic type genus *Leiperia*: hooks bifurcate in larvae, with single lamina in adult; females with spirally coiled abdomen, with comparatively large radius coils; parasites in the crocodilian tracheae, with an obligatory phase in circulatory system (Rego, 1984; Riley & Huchzermeyer, 1996; Junker et al., 2000)).
 - Genus *Leiperia* Sambon, 1922 (3 valid species)
 - Subfamily Samboninae Heymons, 1935 (4 valid species, 1 doubtful species)
 - Genus *Sambonia* Noc & Giglioli, 1922 (4 valid species, 1 doubtful species)
 - Subfamily Diesingiinae Heymons, 1935 (10 valid species, 3 doubtful species)
 - Genus *Diesingia* Heymons, 1935 (2 valid species)
 - Genus *Alofia* Giglioli (in Sambon), 1922 (7 valid species, 3 doubtful species)
 - Genus *Selfia* Riley, 1994 (1 valid species)
 - Subfamily Sebekinae Sambon, 1922 (17 valid species, 4 doubtful species)
 - Genus *Agema* Riley, Hill & Huchzermeyer, 1997 (1 valid species)
 - Genus *Pelonia* Junker & Boomker, 2002 (1 valid species)
 - Genus *Sebekia* Sambon, 1922 (12 valid species, 3 doubtful species)
 - Family Porocephalidae Sambon, 1922 (40 valid species and subspecies, 4 doubtful species)
 - Subfamily Armilliferinae Kishida, 1928 (13 valid species and subspecies)
 - Genus *Armillifer* Sambon, 1922 (11 valid species and subspecies)
 - Genus *Cubirea* Kishida, 1928 (2 valid species)
 - Subfamily Porocephalinae Sambon, 1922 (27 valid species, 4 doubtful species)
 - Genus *Parasambonia* Stunkard & Gandal, 1968 (2 valid species)
 - Genus *Porocephalus* Humboldt, 1812 (9 valid species, 2 doubtful species)
 - Genus *Elenia* Heymons, 1932 (*incertae sedis*) (1 valid species, 1 doubtful species)

Genus *Gigliolella* Chabaud & Choquet, 1954 (*incertae sedis*) (1 valid species)

Genus *Kiricephalus* Sambon, 1922 (*incertae sedis*) (5 valid species)

Genus *Waddycephalus* Sambon, 1922 (*incertae sedis*) (10 valid species)

Clades of the Pentastomida (apomorphies) (figs 1-4)

Although with practice it is not difficult to ascribe pentastomid species to genera, the general absence of good diagnostic criteria renders pentastomids frustratingly difficult animals to identify to species level (Riley & Self, 1981a). The characters below are taken from the only two phylogenetic analyses of the group (Almeida & Christoffersen,

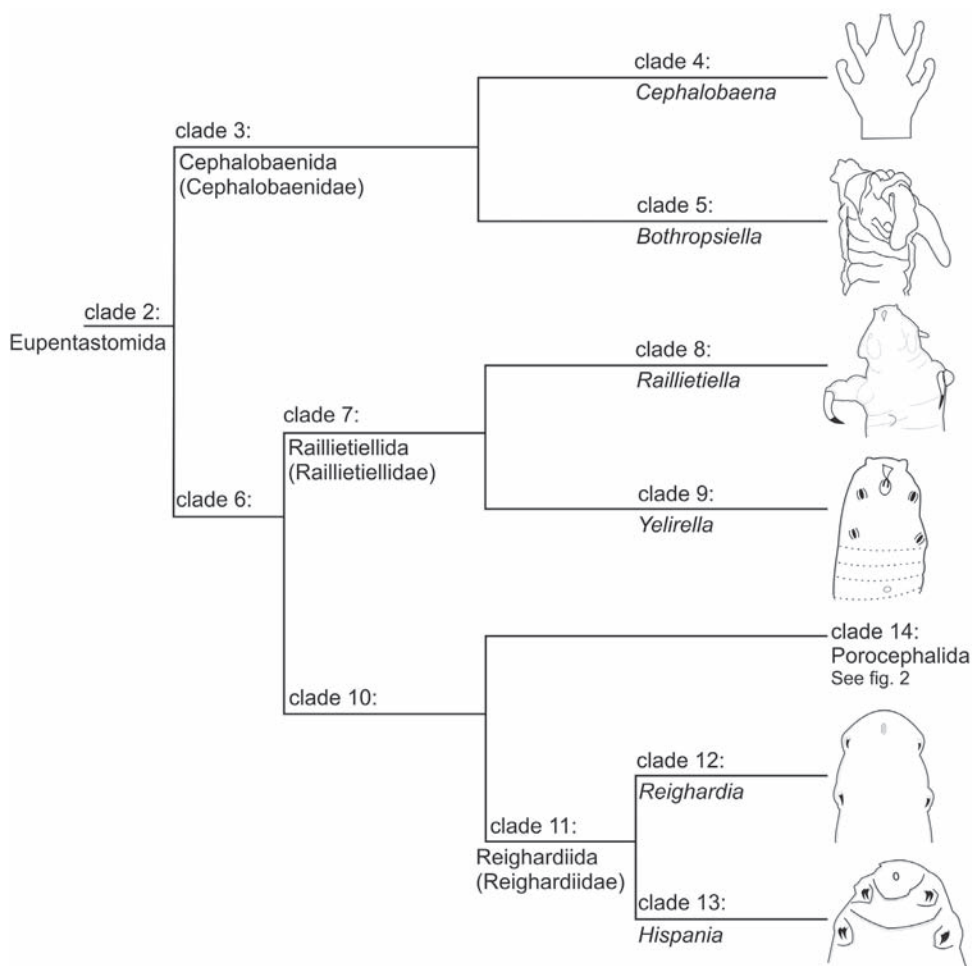


Fig. 1. Phylogenetic relationships among basal groups of Pentastomida: Cephalobaenida (*Cephalobaena* + *Bothropsiella*) + Raillietiellida (*Raillietiella* + *Yeliarella*) + Porocephalida + Reighardiida (*Reighardia* + *Hispania*). The figures of *Cephalobaena*, *Raillietiella*, and *Reighardia* were adapted from Heymons (1935); that of *Bothropsiella* was adapted from Cavalieri (1967); the figure of *Yeliarella* was adapted from Spratt (2003); and the figure of *Hispania* was adapted from Martínez et al. (2004).

1999; Junker, 2002) and tentatively selected from the traditional diagnoses provided in the available literature.

Clade 1: Pentastomida; Pan-Pentastomida (body divided into a head region with 4 somites, a trunk with three somites, and a caudal end; full number of somites at hatching; paired uniramous head limbs on head somites three and four developed as attachment devices, three-segmented; first trunk metamere lacking limbs; second and third trunk metameres possessing at most vestigial limbs with a distal tuft of setae and a medial pore on proximal segment of limb in the larvae; caudal trunk portion with a pair of outgrowths or papillae) (Almeida & Christoffersen, 1999; Waloszek & Müller, 1994; Waloszek et al., 2006).

Clade 2: Eupentastomida (head appendage 1 reduced in all stages, modified into dorsal papillae; head appendage 2 reduced in all stages, modified into frontal papillae; penetrating apparatus consisting of parallel accessory hooks on anterior head margin from larvae to nymphae; proximal podomere of head appendages 3-4 modified into U-shaped fulcrum from larva to adults; median podomere of appendages 3-4 in all stages modified into basal plate; trunk in larvae elongate, not segmented; anterior trunk metamere short, close to head; loss of two posteriormost trunk segments from somites 6-7;

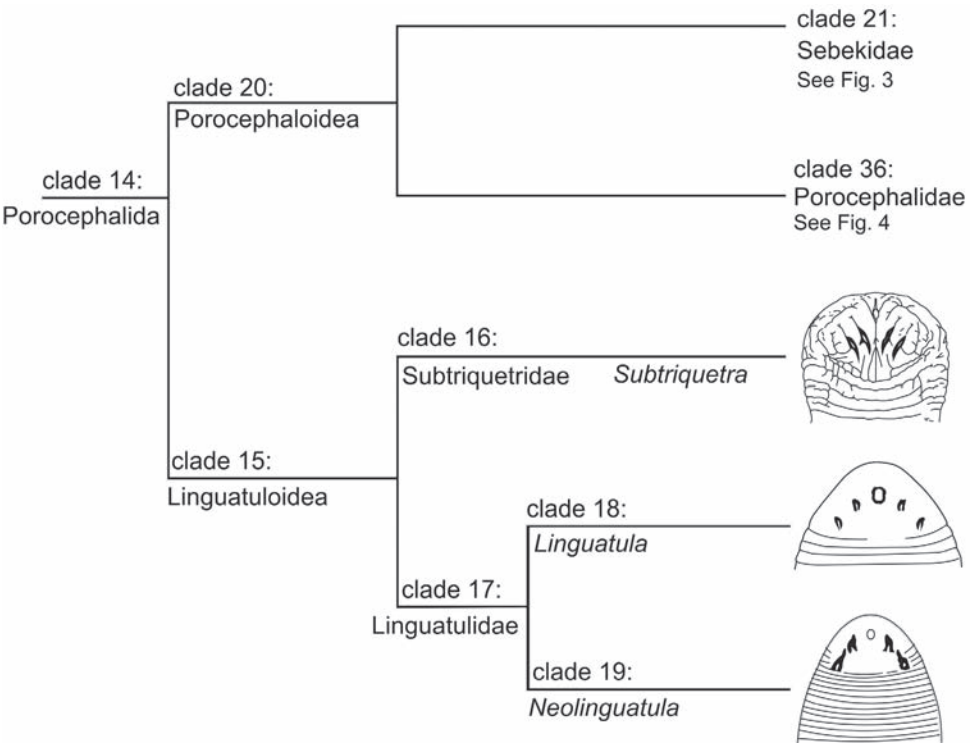


Fig. 2. Phylogenetic relationships within Porocephalida: Porocephaloidea (Sebekidae + Porocephalidae) + Linguatuloidea (Subtriquetridae [*Subtriquetra*] + Linguatulidae (*Linguatula* + *Neolinguatula*)). All figures were adapted from Heymons (1935).

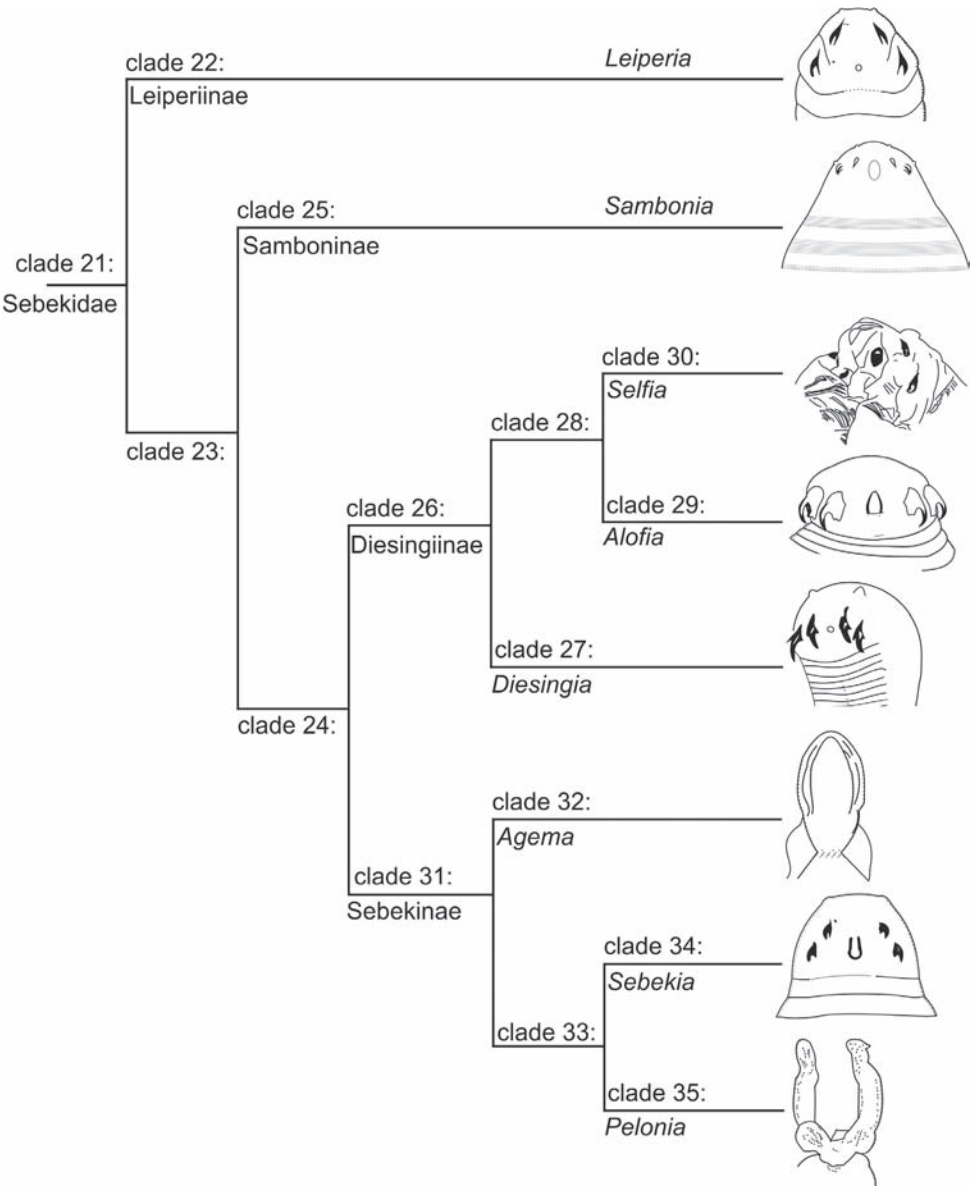


Fig. 3. Phylogenetic relationships within Sebekidae: *Leiperiinae* (*Leiperia*), + *Samboninae* (*Sambonia*) + *Diesingiinae* (*Diesingiini* (*Diesingia* + (*Alofia* + *Selfia*)) + *Sebekiini* (*Agema* + (*Sebekia* + *Pelonia*))). The figures of *Leiperia*, *Alofia*, *Diesingia*, and *Sebekia* were adapted from Heymons (1935); that of *Sambonia* was adapted from Fain & Mortelmans (1960); the figure of the buccal structure of *Agema* was adapted from Riley et al. (1997); and the figure of the buccal structure of *Pelonia* was adapted from Junker & Boomker (2002).

trunk of later larvae and adults made of caudal portion only, which becomes pseudo-annulated; cuticular pores all over the body in larvae and adults) (Almeida & Christoffersen, 1999; Waloszek et al., 2006).

Clade 3: Cephalobaenida; Cephalobaenidae (podial lobes elongate, finger-like) (Poore & Spratt, 2011).

Clade 4: *Cephalobaena* (protrusion of mouth area into a proboscis) (Rego, 1984; Waloszek et al., 2006).

Clade 5: *Bothriopsella* (prosoma with a pair of long, unarmed, lateral projections) (Cavallieri, 1967).

Clade 6: Unnamed taxon Rallietiellida+ Reighardiida + Porocephalida (podial lobes in adults short and reduced to lobules; rostrum reduced in adults) (Almeida & Christoffersen, 1999).

Clade (?) 7: Raillietiellida; Raillietiellidae.

Clade 8: *Raillietiella* (body tapering at both ends; hooks unequal, posterior pair larger than anterior; three vesicular projections round each hook) (Brues & Melander, 1932; Hett, 1934; Rego, 1984).

Clade 9: *Yeliarella* (size minute, direct life cycle in respiratory tract of mammal definitive host, glands of cephalothorax and copulatory spicules porocephalid-like) (Spratt, 2003).

Clade 10: Unnamed taxon Reighardiida+ Porocephalida (rostrum absent in adults; podial lobes and parapodia absent; terminal papillae absent in adults) (Rego, 1984; Almeida & Christoffersen, 1999).

Clade (?) 11: Reighardiidae.

Clade 12: *Reighardia* (loss of terminal papillae/caudal outgrowths in adults (Almeida & Christoffersen, 1999); mature females elongate [7-8 cm] and slender, devoid of clear annulations, and the cuticle possesses numerous tubercles which impart a distinctive knobby appearance to the surface) (Haffner & Rack, 1971; Dyck, 1975).

Clade (?) 13: *Hispania*.

Clade 14: Porocephalida (fulcrum campanulate in larvae and boat-shaped in adults; accessory hooks present and dorsal in position from larvae to nymphae; podial lobes absent in adults; hooks disposed in straight line or arc; nervous ganglia fused into single suboesophagic nerve mass in adults; median spine of penetrating apparatus simple in first larval stages; lateral spines of penetrating apparatus bifid in first larval stages; spines of annuli present in nymphae; ejaculatory bulbs present in adults; cirri long in adults; cirrus sac present in adults; copulatory spicule not club-shaped; uterus tubular in adults, greatly elongated and irregularly coiled; female gonopore ventral in adults, posterior, separated from anus by a few rings (heterogyne contidion) (Brues & Melander, 1932; Self, 1969; Almeida & Christoffersen, 1999; Poore & Spratt, 2011).

Clade 15: Linguatuloida (body flattened and spatulate in adults) (Almeida & Christoffersen, 1999).

Clade 16: Subtriquetridae; *Subtriquetra* (egg envelopes reduced to a single, flexible membrane; primary larvae moves freely with a strongly hooked tail) (Vargas V., 1975; Riley, 1986).

Clade 17: Linguatulidae (body flattened, fluke-like) (Melander & Brues, 1932; Riley, 1986).

Clade 18: *Linguatula* (body spatulate, attenuated posteriorly; two pairs of double

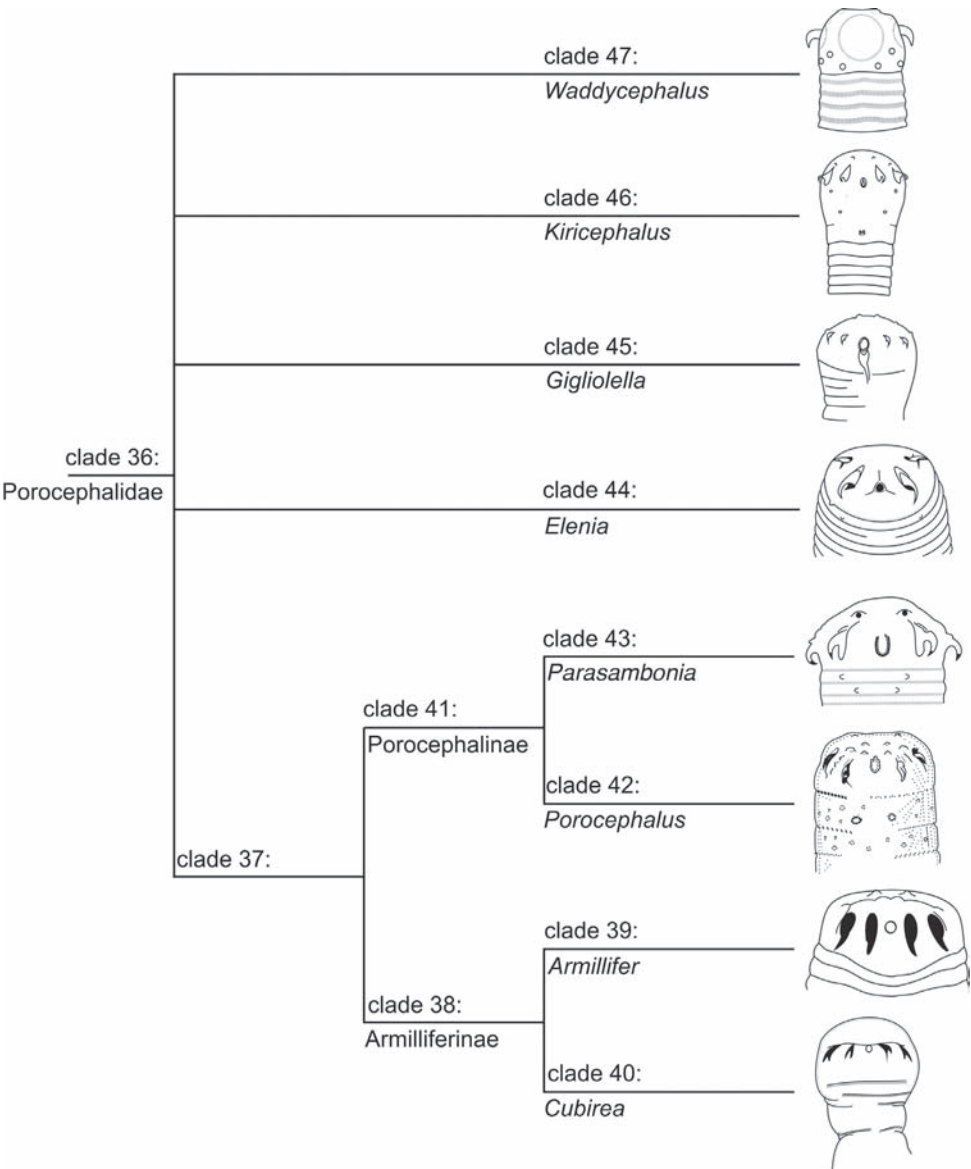


Fig. 4. Phylogenetic relationships within Porocephalidae: *Waddycephalus*, *Kiricephalus*, *Gigliolella*, *Elenia*, and the clade Porocephalinae (*Parasambonia* + *Porocephalus*) + Amilliferinae (*Armillifer* + *Cubirea*). The figures of *Waddycephalus*, *Kiricephalus*, *Elenia*, and *Armillifer* were adapted from Heymons (1935); that of *Gigliolella* was adapted from Chabaud & Choquet (1954); *Parasambonia* was adapted from Riley et al., Self (1982); the figure of *Porocephalus* was adapted from Riley & Walters (1980); and that of *Cubirea* was adapted from Sambon (1922).

claws; cuticle spinous; testes double; life cycles restricted to mammals) (Sambon, 1922a; Self, 1969, 1982; Rego, 1984).

Clade 19: *Neolinguatula* (with a cleft in caudal region) (Haffner et al., 1969).

Clade 20: Porocephaloidea (early larva ovoid; vulva opening in posterior region of body; hooks with fulcrum) (Rego, 1984; Almeida & Christoffersen, 1999).

Clade 21: Sebekidae (alimentary canal sinuous, longer than body; hooks distinctly convex, with spines large and prominent; nymphal hooks double; all final hosts are amphibious reptiles (crocodilians, chelonians and monitor lizards, the later including a variety of foods such as carrion, fish, crabs, snails, snakes, terrapins, and eggs of water-birds and crocodiles)) (Sambon, 1922a; Brues & Melander, 1932; Self, 1982; Patterson, 1991; Junker, 2002).

Clade 22: Leiperiinae; *Leiperia* (hooks bifurcate in larvae, with single lamina in adult; females with spirally coiled abdomen, with comparatively large radius coils; parasites in the crocodilian tracheae, with an obligatory phase in circulatory system) (Rego, 1984; Riley & Huchzermeyer, 1996; Junker et al., 2000).

Clade 23: Unnamed taxon Samboninae + Diesingiinae + Sebekinae (body shape short and massive (banana-shaped); anterior extension to fulcrum present on all fulcra or secondarily reduced in posterior and/or anterior fulcra) (Junker, 2002).

Clade 24: Unnamed taxon Diesingiinae + Sebekinae (a single row of chloride cell pores per annulus; cirrus tip in males reduced; patches of spines present on hooks) (Junker, 2002: 95).

Clade 25: Samboninae; *Sambonia* (vagina and anus of female separated by several annuli, the heterogynous condition; adults parasitize monitor lizards, *Varanus*) (Fain, 1961; Junker, 2002).

Clade 26: Diesingiinae (chloride cell pore distributed in a single row per annulus; cirrus tip in males reduced, simple; patches of spines on hooks present or partially reduced) (Junker, 2002).

Clade 27: *Diesingia* (copulatory spicules with tiller-like extension on collar) (Junker, 2002).

Clade 28: Unnamed taxon *Alofia* + *Selfia* (hooks from nymphae to adults with rows of very reduced spines; oral cadre of adults with oesophageal peg; copulatory spicules forming a double-hooked-collar) (Riley, 1994; Junker et al., 1999; Almeida & Christoffersen, 1999; Junker, 2002).

Clade 29: *Alofia* (Oral cadre U-shaped in profile; hooks bent through right angle) (Junker, 2002).

Clade (?) 30: *Selfia*.

Clade 31: Sebekinae (mouth ridge in adults incomplete anteriorly; copulatory spicules delicate, collar around anterior spatular extension weakly developed or absent; esophageal peg of oral cadre absent) (Hett, 1924; Junker, 2002).

Clade 32: *Agema* (copulation spines reduced during ontogenesis, smoothly curved and without spines, extensions to the fulcra being absent in adults) (Riley et al., 1997; Junker, 2002).

Clade 33: Unnamed taxon *Sebekia* + *Pelonio* (hooks distinctly convex) (Junker, 2002).

Clade 34: *Sebekia* (cephalothorax small, projecting nipple-like from abdomen; base of hooks with small spines in adult) (Sambon, 1922a; Rego, 1984; Riley et al., 1990).

Clade 35: *Pelonio* (spines absent from hooks; extension of fulcrum absent) (Junker, 2002).

Clade 36: Porocephalidae (hooks aligned in adults) (Almeida & Christoffersen, 1999).

Clade (?) 37: Unnamed clade Porocephalinae + Armilliferinae.

Clade 38: Armilliferinae (circular and parietal muscles arranged in thick bands, so that abdominal annuli become raised and distinct in adults) (Nicoli et al., 1965; Almeida & Christoffersen, 1999).

Clade (?) 39: *Armillifer*.

Clade (?) 40: *Cubirea*.

Clade (?) 41: Porocephalinae.

Clade 42: *Porocephalus* (accessory spines present on the hooks of adults) (Hett, 1924; Almeida & Christoffersen, 1999).

Clade 43: *Parasambonia* (presence of a chitinous extension of the funiculum, which overlies the outer hood) (Riley & Self, 1982).

Clade (?) 44: *Elenia*.

Clade (?) 45: *Gigliotella*.

Clade (?) 46: *Kiricephalus*.

Clade 47: *Waddycephalus* (cephalothorax separated from abdomen by a constriction involving seven or eight annuli) (Fain, 1961; Riley & Self, 1981a).

Detailed taxonomic account of Recent species

Phylum PENTASTOMIDA Shipley, 1905

Phylum PENTASTOMIDA Shipley, 1905: 249.

An extraordinary worm; Paisley, 1734: 333; 1742: 416; Nicoli et al., 1965: 513 ("Nettorhynche"; historical account).

Animalculus infusoriis satura; Wrisberg, 1765: 1787 (three worms observed in a dog).

Taenia lanceolée Chabert, 1782: 39 (as Cestoda).

Linguatula or tongue worms; Schrank, 1796: 1.

Pentastomata Rudolphi, 1809: 428 (as Trematoda).

Phylum, Class, or Subclass Pentastomida; Oken, 1815: 166; Rudolphi, 1819: 577; Nördmann, 1832: 141 (as Nematoda); Beneden, 1848a: 161 (as Crustacea); Schubärt, 1853: 117 (as Acari); Railliet, 1883: 26 (confirmed as Acari); Sambon, 1910a: 134 (as Acarina); 1922: 417 (list of genera and species).

"Linguatule", "linguatella" Blainville, 1823: 509; E. Blanchard, 1850a: 188 (organization).

Linguatulidae Haldeman, 1851 (as a family of Helminthes); Vogt, 1851: 499 (referred to the family as Linguatulida); Weiss, 1927: 566 (new species named, but not described: *Porocephalus heterogenis*, *Reighardia carthaginensis*, and *R. elelae*).

Acanthotheca Diesing, 1836: 15.

Hypobothria Diesing, 1864: 200.

Linguatulida Claus, 1872: 519 (as an Order of Arachnoidea); Chatin, 1881: 66 (mode of locomotion and penetration of linguatulids); A. Castellani, 1919: 732 (general account); Rivas, 1920: 476 (human parasitology); Lahile, 1920 (taxonomy); Daiber, 1921: 784 (pentastomid morphology); Alcock, 1923: 265 (general account); Haffner, 1924a: 209 (affinities and classification); 1926a: 201 (sense organs, relationships to Annelida); 1926b: 136 (sense organs, relationships to Annelida); Lameere, 1930: 146 (linguatules);

Fischer, 1930: 705 (linguatulidans and linguatuliasis); Sprehn, 1930: 244 (important helminthes); Holl, 1932: 83 (linguatulid parasites of amphibians); Hill, 1935a: 117 (taxonomy and occurrence of linguatulids in pythons); 1948: 56 (annotated bibliography); Ball, 1948: 250 (systematic relationships); Gomes, 1979: 587 (Brazil: Rio de Janeiro; from marsupials in Instituto Oswaldo Cruz).

Linguatulozoa Lungu, Stoican & Newterov, 1961: 131 (in *Lepus (Lepus) timidus timidus* [as *Lepus timidus*]).

Pentastomata Self, 1982a: 726 (as single class of subphylum Pentastomida).

Unidentified pentastomids and general works on pentastomiasis in animals; Chabert, 1789: 39 (illnesses in house animals); Colin, 1824: 4 (worms in larynx and nasal cavities of dog); 1863a: 721 (tenioid pentastomes in nasal cavities of dog); 1864 (pentastome in nasal cavities of dog); Ganin, 1869: 441 (pentastomes in insects); Calandruccio, 1890: 8 (parasitology of lungs); Ostertag, 1892: 63 (pentastomes in lymph glands of cattle); 1927: 196 (pentastome notches in ox); Lungwitz, 1893: 218 (massive pentastome invasion of cattle); Storch, 1895: 135 (pentastome notches in lungs of ox); Tempel, 1898: 187 (larva in lungs of goat); Morgen, 1901: 416 (pentastomiasis in cattle); Alessandrini, 1908: 392 (parasitological disease in sheep); 1929 (parasitology in domestic animals); Sweet, 1909: 454 (Australia; endoparasites in native fauna); Cleland & Johnston, 1911: 119 (Australia; in cattle); Cleland, 1912: 120 (in endemic bovines); Boulenger, 1913: 107 (Europe; overview of parasites of snakes); Glage, 1915: 155 (in lungs of cattle); Wall, 1921: 47 (records of linguatulidans in snakes); Strong et al., 1926: 1 (unidentified pentastomid in pipe snake, *Anilius* [as *Ilsya*] *scytale*); Bugge 1927a: 124 (mesenteric pentastome lymph nodes in cattle); Faust, 1928: 107 (China); 1929: 27 (China; in dog and cat); Ivanov, 1933a: 157 (pentastomids in bovids and buffaloes); Walton, 1946: 18 (parasites in bufonid amphibians); 1947: 26 (parasites of ranid amphibians); Voblikova, 1961: 129 (adults in reindeer); Macko, 1964: 118 (Czechoslovakia; in sea swallows and sea gulls); Lavoipierre & Lavoipierre, 1966: 845 (arthropod intermediate host); Whitney & Kruckenb, 1967: 907 (pentastomid infection associated with peritonitis in mangabey monkeys); Senadhira, 1967: 39 (guide to animal parasites and arthropod pests); Nadakal & Nayar, 1968: 189 (transplantation from reptilian to amphibian hosts); Self & Costgrove, 1968: 969 (pentastome larvae in laboratory primates); 1972: 194 (pentastomids causing pathology of simian primates); Cosgrove et al., 1970: 354 (pentastomid infection in primates); Basson et al., 1970: 110 (South Africa: Kruger National Park; pentastomid parasitic diseases of African buffalo); Karstad, 1970: 8 (bibliography on infections and diseases of African wild animals); Horvath, 1971: 429 (experimental lizard hosts); Sweatman, 1971: 51 (pentastome diseases in wild animals); Thurston, 1972: 791 (heavy pentastomid infestation of nymphs in a bush genet); Deakins, 1972: 1 (pentastome pathology in captive reptiles); Lavoipierre & Rajamanickam, 1973: 301 (life cycle of a lizard pentastome); B.L. Lim & Yong, 1977: 59 (Malaysia: Sarawak; pentastomid infections in house geckos); Hirji, 1980a: 58 (Tanzania: Dar-Es-Salaan; in scincid lizard, *Trachylepis striata striata* [as *Mabuya striata*]); Kuntz, 1982: 185 (somatic infections resulting from larval pentastomiasis in various viscera in non-human primates); Riley & Winch, 1984: 5 (role of leaf-cutter ants in transmission of pentastomid parasite of worm-lizards); Beaver et al., 1984: 572 (parasitology of Crustacea); Rojers et al., 1985: 417 (aberrant nymphal pentastomiasis in a dog); Riley et al., 1986: 459 (life cycle of a pentastomid parasite of *Amphisbaena alba*, with ant and beetle inquilines); Chooi, 1986: 311 (pentastomiasis in a cat); Y. Zhang et al., 1988: 61 (China; pentastomia-

sis in lizard *Gekko gecko gecko* [as *Gekko gecko*]); Pineda-López & Garcia-Magaña, 1991: 97 (Tabasco: Balanán: Río San Pedro; nymphs in cypriniform fish, *Ictalurus meridionalis*); Horak et al., 1992: 259 (South Africa: eastern Transvaal Lowveld: Kruger National Park; ectoparasitic nymphs of domestic and wild animals); Buenviaje et al., 1994: 165 (Australia: Northern Territory; diseases in farmed crocodiles); Brown et al., 1995: 317 (pentastomid infections of unisexual gecko, *Lepidodactylus lugubris*, and bisexual gecko, *Hemidactylus frenatus*, by most likely *Railietiella hemidactyli*); Ladds et al., 1995: 121 (Iranian-Jaya; diseases in young farmed crocodiles); Wright, 1997: 5 (ivermectin for treatment of pentastomids in the standing's day gecko, *Phelsuma standingi*); Oakwood & Spratt, 2000: 79 (Australia: Northern Territory: Kakadu National Park; pentastome larvae in northern quoll, *Dasyurus hallucatus*); Muzaffar & I.L. Jones, 2004: 121 (parasites and diseases of auks); Miyasaki & Dieter, 2005: 1433 (New Guinea: in lung of gecko); Nash, 2005 (overview of respiratory parasites of reptiles); Radhakrishnan et al., 2009: 253 (India: Kerala; pentastomid ova in indigenous snake faeces); Ramollo et al., 2009: 121 (pentastomid infection in fish intermediate host); McAllister et al., 2010: 90 (Cameroon: Douala; a pentastomid in the herpetofauna); Goldberg et al., 2010: 447 (Papua-New Guinea; in skins); Campos et al., 2010: 79 (Brazil: Mato Grosso do Sul: Aquidauana river; one species of pentastomid in siluriform fish, *Pseudoplatystoma fasciatum*); Barros et al., 2010: 228 (Brazil: Mato Grosso: Cuiabá river; in muscles, coelomic cavity, and air bladder of red piranha, *Pygocentrus nattereri*); H.I. Jones 2010: 69 (Australia: Great Victoria desert; gastrointestinal parasites of dwarf varanid monitor lizard, *Varanus (Odaria)*).

Unidentified pentastomids and general works on pentastomiasis in man; Virey, 1823: 219 (vermifuge for human pentastome); Leuckart, 1863: 78 (pentastomids in man); 1979: 1 (parasites in man); Peterson, 1866: 1 (pentastome in man); Alessandrini, 1929: 1 (parasitology in man); Benedetti-Valentine, 1932: 1085 (splenic pentastomiasis); Weiser, 1942: 239 (lung disease: cysticercose – pentastomiasis); Anemaet, 1948: 366 (living pentastome in a dog); Christodouleu & Trarlatzis, 1951: 147 (pentastomiasis); Vrba & Marusiak, 1960: 297 (pentastomiasis); Fain, 1960a: 516 (pentastomosis); 1966a: 167 (pentastomids in snakes, parasitological role in man and animals); 1975: 59 (pentastomids parasitic in man); Salazar, 1965: 157 (Philippines and Taiwan: human pentastomiasis); Coster et al., 1967: 257 (cases of larval pentastomiasis discovered radiologically); Prathap et al., 1969: 20 (Malaysia; pentastomiasis in autopsied Malaysian aborigenes); Hopps et al., 1971: 970 (pentastomiasis); Ali-Kahn & Browner, 1972: 58 (Canada; pentastomiasis, host responses to larval and nymphal infections); Self, 1972: 2 (pentastomiasis, a response to larval and nymphal infections); Fontanel et al., 1972: 323 (a case of conjuntival pentastomosis); Coulibaly et al., 1972: 236 (Africa; pentastomosis, respiratory pathology); Amy et al., 1974: 273 (pentastomid infestation in man); Ong, 1974: 187 (pentastomiasis in fallopian tube in aboriginal woman); Discamps & Albert, 1974: 187 (four human cases); Smith et al., 1975: 503 (pentastomiasis and malignancy); Self et al., 1975: 1 (pentastomiasis in Africans); Meyers et al., 1976: 546 (pentastomiasis); Bygbjerg & Rask, 1978: 54 (pentastomiasis and cancer of the colon); Enyinihi, 1978: 183 (pentastomiasis); Couliboeuf & Frézil, 1978: 222 (Congo Republik; massive pentastoma infection); Prathap, 1981: 132 (pentastomiasis); Piéron et al., 1982: 1047 (France: Paris; pentastomiasis); Nozais et al., 1982: 497 (human pentastomiasis, serological inquire); Tiendrebeogo et al., 1982: 351 (Africa: Abidjan; human pentastomiasis); Herzog et al., 1985: 261 (pentastomiasis, acute abdominal emergency); Drabick, 1987: 1087 (review of pentastomiasis in humans); Lang et al., 1987: 391

(intraocular pentastomiasis, causing unilateral glaucoma); Roberts, 1988: 362 (parasitic infections of pleural space); Lloyd, 1998: 921 (human hosts of zoonotic parasites); Haugerud, 1988a: 28 (human pentastomiasis); Shin et al., 1990: 117 (Taiwan; pentastome infection in man; immune response of first human case of infection in Taiwan); Abadi et al., 1996: 169 (USA: Georgia; pentastomiasis in woman with AIDS, first example of heart involvement); M.H. Qiu & Chen, 1999: 188 (China; human pentastomiasis, misidentification); Coker et al., 2000: 59 (Nigeria; pentastomiasis); Xie et al., 2002: 31 (a case of pentastomiasis); H.Y. Chen, 2003: 619 (two cases of pentastomiasis); Acha & Szyfres, 2003: 345 (pentastomiasis in man and animals); Sellier et al., 2004: 1524 (thoracoabdominal calcifications in a healthy West African man); Machado et al., 2006: 1218 (Brazil; pentastomiasis mimicking liver tumor); M.H. Qiu & Jiang, 2006: 281 (human pentastomidosis); Dakubo et al., 2006: 166 (human pentastomiasis); 2008: 165 (totemism and transmission of human pentastomiasis); Lukmanova & Gumerov, 2007: 54 (Bashkortostan; nymphs causing hepatic lesion in human child); Leschnik et al., 2008: 59 (Austria; parasitic infectious disease); Büttner & Tappe, 2009: 320 (diagnosis of human visceral pentastomiasis); Dorny et al., 2009: 196 (pentastomids as causes of zoonotic infections in humans when consuming not properly cooked meat); Magnino et al., 2009: 163 (risks associated with consumption of reptile products); Mourra, 2010: 261 (liver pentastomiasis associated with rectal adenocarcinoma); Lai et al., 2010: 480 (Korea; pentastomiasis infection causing liver granuloma in 3-year-old girl).

Other general works on pentastomids and references of interest to pentastome biology; Leuckart, 1860a: 1 (anatomical and embryological evidence for placement with mites); Mehlis, 1860: 3 (development); Lindemann, 1870a: 436; 1870b: 36 (the pentastome); Owsjannikoff, 1870: 166 (a pentastome parasite); Balfour, 1880: 449 (embryology); Hahn & Lefèvre, 1885: 704 (pentastome or linguatule); Lohrmann, 1889: 308 (anatomy); Hahn, 1899: 316 (pentastome or linguatule); Ihle, 1899: 608 (systematic position); Shipley, 1905: 249; 1909: 488 (arthropod affinities); Rauther, 1909: 581 (systematic position); Ge-doele, 1911: 1 (parasites in man and domestic animals); Berlese, 1912: 5, figs (general account); Fantham et al., 1916: 523; Alcock, 1923: 272 (Linguatulida or Pentastomida); Hett, 1924a: 107 (review of families); Heymons, 1926a: 45 (revision); 1926b: 69 (general review); 1926c: 22 (dorsal organ); 1927: 22 (dorsal organ); 1928: 1 (general); 1930: 193 (Sunda Expedition); 1933 (in birds); 1935: 200 (diagnosis and classification); 1940a: 122 (Republic of the Congo); 1943: 3 (Republic of the Congo); Dallbert, 1928: 62 (Normandie); Sprehn, 1928a: 84 (tongue worms); 1928b: 853 (Arctic); Ginzburg & Koriazhnov, 1928: 58 (pentastomids); Dawydoff, 1928: 398 (embryology); Fischer, 1930: 705 (linguatulidans); Brues & Melander, 1932: 579 (general account); Chandler, 1936: 429 (general account); Heymons & Vitzhum, 1935a (monograph); 1939: 675 (in lacertilians); Korschelt & Heider, 1936: 565 (general); Cuénot, 1949: 61 (general account of pentastomids); Self, 1951a: 255 (relationships and bibliography); 1961: 748 (general account); 1969: 63 (relationships and bibliography); 1982a: 726 (classification of families); 1983: 478 (reproductive biology); 1990: 157 (development); Self & Kuntz, 1956: 33 (South Pacific: British Solomon Islands: Florida Island; from African reptiles and mammals); K.H. Rao & Jennings, 1959: 299 (alimentary system; in Indian water-snake, *Xenochrophis* [as *Natrix*] *piscator*); Doucet, 1961: 3; 1962: 115 (pentastomes); 1965: 1 (anatomy); 1966: 503 (anatomy and histology of pentastomes); Fain, 1961: 18 (classification and key to genera); Jacob, 1962: 213 (tongue worm, an interesting parasite); Osche, 1963: 573 (systematic position

and phylogeny); Nicoli, 1963: 483 (phylogeny and systematics); 1964: 622 (problems in general parasitology); Beklemishev, 1958: 56 (anatomy); 1964: 87 (anatomy); 1969: 157 (anatomy); Bernard, 1965: 39 (Tunis); Self & Kuntz, 1966a: 620 (review); Blazéjewski, 1965: 361 (systematic position, evidence against Pararthropoda); Nicoli & Nicoli, 1966: 255 (biology); Legendre, 1967: 337 (morphology); Kästner, 1968: 28 (general account of phylum); Haffner, 1971: 53 (tagmosis, metamery, classification, evolution, and systematic position); 1973: 241 (anatomy and evolution of extremities); 1974: 139 (parasitism); 1977: 353 (systematic position); Radchenko, 1971: 935 (new species); Chitwood & Lichtenfels, 1972: 407 (parasitic Metazoa in tissue sections); Nørrevang, 1972: 57 (oogenesis); 1983 (reproductive system); Wingstrand, 1972: 1 (spermatology and relationships); Riley, 1973a: 243 (glandular system); 1973b: 26 (phylogeny); 1974: 3 (ultrastructure of cuticle); 1978: 29 (host immune response); 1979: 20 (reproductive strategies); 1983: 59 (review of reproductive biology); 1986: 45 (biology and classification); 1988: 487 (reproductive biology); 1992a: 401 (reproductive biology); 1992b: 133 (immune response); 1993: 293 (reproductive biology); 1996: 1659 (pentastomids); Ranque, 1974: 22 (phylogenetic position); Banaja & Riley, 1976: 29 (tegumental cuticle cells of osmoregulatory system); Banaja et al., 1977: 27 (osmoregulation system in pentastomids); Riley et al., 1978: 245 (phylogenetic relationships: a case for their inclusion in Crustacea); Karup-paswamy & Rajulu, 1978: 1 (phylogeny); Gyorkos & Kevan, 1979: 290 (Pentastomida); Rego et al., 1979: 1 (Brazil; list of holotypes, Oswaldo Cruz Institute); Riley & Ali, 1980: 24 (taxonomy); Pflugfelder, 1980: 95 (ontogenesis); Böckeler & Dreyer, 1982: 257 (functional morphology of parasite attachment); Olson & Cosgrove, 1982: 172 (overview of pentastomids from Mexico, Central America, and the West Indies); Moritz, 1982: 516 (Linguatulida as synonym); Zaman, 1983: 1 (scanning electron micrographs); Bosch, 1984: 409 (life cycles); Böckeler, 1984a: 333 (taxonomic position, divergent from base of Arthropoda); 1990: 103 (phylogeny and adaptations to parasitic life of host); Walldorf & Mehlhorn, 1984: 413 (fine structure); Bereiter-Hahn et al., 1984: 709 (biology of integument); Gilyarova & Pravdina, 1984: 123 (monograph); Storch, 1984: 709 (integument); 1993: 115 (microscopical anatomy); Sudhaus, 1985: 755 (systematics); Nieto Nafria & Mier Durante, 1985: 1 (systematics); Esslinger, 1985: 204 (arthropods as vectors); Barnes, 1987: 69 (number of species); Ambrose & Riley, 1988a: 381 (secretory process); 1988b: 721 (host-parasite interface); 1989: 699 (secretions of cuticle); Mehlhorn & Walldorf, 1988: 1 (evolutionary adaptations to parasitism); Mehlhorn et al., 1988: 161 (anatomy); Walldorf, 1988: 288 (parasitology); Haugerud, 1989: 126 (evolution); Andres, 1989: 9 (probable fossil ancestor); Abele et al., 1989: 685 (molecular evidence for inclusion in Crustacea); 1992: 373 (branchiuran crustaceans closely related to pentastomes; Maxillopoda not monophyletic); G. Thomas, 1991: 1 (intestine); C. Anderson, 1992: 40 (new classification); Martin & Laverack, 1992: 366 (embryonic dorsal organs appear in crustaceans, including pentastomids); Storch & Jamieson, 1992: 95 (further spermatological evidence for inclusion in Crustacea); Waloszek & Müller, 1993: 148 (marine Paleozoic fossils); Palmer, 1993: 214 (inclusion in Crustacea); Gould, 1995: 6 (tongue worms, velvet worms, and water bears); Malloch, 1995: 1334 (heteroxenous life-history); Boyko, 1996: 1 (catalogue of species from American Museum); Junker, 2002: 93 (cladistics of Sebekidae); Sharpilo et al., 1996: 3 (paratenic parasitism, evolutionary signal); Giribet et al., 1996: 76 (belongs to Hexapoda + Crustacea, but resolution far from clear); 2005: 307 (total evidence support for an *Argulus* relationship); 2007: 64 (DNA sequence data and

mitochondrial genes order corroborate the case of pentastomids as fish lice); Ikuta & Makioka, 1997: 29 (phylogenetic position of pentastomids; ovarian oogenesis similar with branchiuran crustaceans); 1999: 730 (ovarian structure similar to ostracodes, branchiurans and chelicerates); 2004: 72 (ovary and oogenesis compared with Ostracoda); Sergiev et al., 1998: 48 (pentastomids – a forgotten class of parasites); 2000: 53 (pentastomes in Russia); Cave et al., 1998: 22 (arguments against a relationship with Branchiura); Budd, 1998: 125 (possible stem group form from Upper Cambrian of Sweden); Min et al., 1998: 75 (molecular phylogeny of arthropods, pentastomids assumed to be primitive, but included in crustacean-insect lineage); Almeida & Christoffersen, 1999: 695 (cladistic analysis, phylogenetic systematization); Jamieson & Storch, 2000: 97 (reproductive biology); Martin & Davis, 2001: 24 (discussion of pentastomid affinities with Crustacea); Zrzavý, 2001: 81 (Ichthyostraca for Branchiura + Pentastomida); Maas & Waloszek, 2001: 451 (larval stages of stem lineage pentastomids from Upper Cambrian of Sweden); Tchesunov, 2002: 209 (phylogeny); Gorokhov, 2003: 33 (forgotten parasitic diseases); Waloszek, 2003: 71 (fossil parasitic larvae from Upper Cambrian of Sweden); Lavrov et al., 2004: 537 (mtDNA genes indicate unambiguously that Pentastomida are modified crustaceans, probably related to branchiurans); Almeida et al., 2005: 19 (diversity and abundance in a tropical arid region); Vitková et al., 2005: 145 (telomeric DNA repeats); Newmann, 2005: 1 (discussion of maxillopodan affinities: podocopine ostracods as sister-group to Branchiura-Pentastomida); Pouder et al., 2005: 1 (in freshwater fish); Waloszek & Maas, 2005: 515 (China: Chengjiang; fossil "head larvae" from Cambrian as evidence for euarthropod segmentation evolution); Lopes & Almeida, 2006: 96 (endoparasite diversity in arid tropical region); J.T. Lim & Hwang, 2006: 314 (mitochondrial genome evidence for monophyly of Oligostraca: Ostracoda + Branchiura + Pentastomida); Liu et al., 2006: 358 (Cambrian fossil, *Facivermis yunnanicus*, previously interpreted as related to lobopods, pentastomes, and lophophorates); Mallatt & Giribet, 2006: 772 (pentastomids as Pancrustacea, molecular evidence for Ostracoda + (Pentastomida + Branchiura)); Maas et al., 2007: 3385 (single gonopore as plesiomorphic for pentastomids); Poly, 2008: 209 (placed with either Branchiura or Ostracoda); Møller et al., 2008: 333 (sister-group to Branchiura confirmed with molecules); Almeida et al., 2008a: 87 (Mysopharyngea; phylogenetic position in Ecdysozoa); Møller, 2009: 44 (discussion of pentastomids as possible closest relative to Branchiura); Richter et al., 2009: 280 (pro Ichthyostraca); Edgecombe, 2010: 72 (total evidence cladistic analysis with fossil *Yicaris*, total evidence for sistergroup relationship *Raillietiella* – *Argulus*); Regier et al., 2010: 1079 (arthropod relationships based on nuclear protein-coding sequences; mystacocarids included in Oligostraca); Poore, 2012a: 214 (authorship used above to appear in corrigenda).

Class EUPENTASTOMIDA Waloszek, Repetski & Maas, 2006

Taxon Eupentastomida Waloszek et al., 2006: 163.

Order CEPHALOBAENIDA Heymons, 1935

Cephalobaenida Heymons, 1935: 203 (diagnosis); Heymons & Vitzhum, 1935a: 3 (diagnosis); Self, 1982a: 726 (for Cephalobaenidae and Reighardiidae); Storch et al.,

1990: 610 (comparison of male genital ultrastructure with Porocephalida); G. Thomas & Böckeler, 1992a: 587 (midgut epithelium); 1994: 420 (intestinal sphaerocrystals).

Cephalobaeniformis Motta, 1963a: 10 (for *Cephalobaenidae*, *Reighardiidae*, and *Subtriquetridae*).

Remarks: The traditional concept of the *Cephalobaenida*, to contain both *Cephalobaenidae* and *Reighardiidae* (Heymons, 1935; Self, 1982) results in a paraphyletic assemblage. The same is true of *Cephalobaeniformis*. Instead, we restrict *Cephalobaenida* to include only *Cephalobaenidae*.

CEPHALOBAENIDAE Heymons, 1922

Cephalobaenidae Heymons, 1922: 161; 1935: 203 (diagnosis); Heymons & Vitzhum, 1935a: 3 (diagnosis); Gretillat et al., 1962: 309 (key to genera); Motta & Gomes, 1968a: 9 (key to genera); Self, 1969: 63 (reprilian illnesses); Reichenbach-Klinke, 1977: 1 (diseases in reptiles); Rego, 1983a: 399 (revision); Richter-Okere, 1993: 1 (experimental study); Poore, 2012a: 214 (discussion of resolution of priority of *Cephalobaenidae* over *Raillietiellidae*).

Cephalobaena Heymons, 1922

Cephalobaena Heymons, 1922: 159; 1935: 203 (diagnosis); Heymons & Vitzhum, 1935a: 103 (diagnosis); Rego, 1984a: 47 (diagnosis).

Type-species, by original designation: *Cephalobaena tetrapoda* Heymons, 1922.

Cephalobaena tetrapoda Heymons, 1922

Cephalobaena tetrapoda Heymons, 1922: 159, fig. 4 (types: Paraguay: Departamento de Cordillera: San Bernardino, in lungs of the pitviper, *Rhinocerocephalus* [as *Bothrops*] *alternatus*; syntypes in Museum für Naturkunde, Berlin); 1935: 204, fig. 115; Sambon, 1922b: 391, fig. 2 (Argentina; Uruguay; Paraguay; in snake, *Rhinocerocephalus* [as *Lachesis*] *alternatus*); Heymons & Vitzhum, 1935b: 158 (Argentina: Department Misiones: Loreto: near Santa Ana; in *Leptophis ahuetulla liocercus* [as *Leptophis liocercus*] and *Lachesis* sp.); 1936: 4, fig. 1 (type in Berliner Museum); Motta, 1963b: 7, fig. (Brazil; in snake, *Crotalus durissus terrificus* [as *Crotalus terrificus*], from Instituto Butantan, São Paulo, Brazil; female); Cavalieri, 1970: 291; Haffner & Rack, 1971: 505 (anatomy, development & phylogenetic position); Rego, 1983a: 400, figs 1-5 (*Cephalobaena recurvata* as new synonym); 1984a: 47, figs 1-2; Böckeler, 1986: 164 (Paraguay; central nervous system and body appendages); Böckeler & Böhme, 1987: 52 (Paraguay; in reptilian hosts); Böckeler & Storch, 1990: 270 (ultrastructure of reproductive system of males; in lungs of Paraguayan tree snake, *Philodryas baroni*; ultrastructure of male genital system); G. Thomas & Böckeler, 1992a: 587 (digestive system); Storch & Jamieson, 1992: 95 (sperm ultrastructure and evidence for relationship with Crustacea); Stendel-Seidel et al., 1999: 373 (ionical glands); Sielfeld, 2000: 1 (Chile; in lungs of serpents); Almeida et al., 2006a: 559 (Brazil: State Ceará: Mun. Crato: Floresta Nacional do Araripe, in respiratory tracts of colubrid snake, *Lygophis* [as *Liophis*] *lineatus*); 2007: 759 (Brazil: State of Ceará: Municipality of Crato, 7°14'S, 39°24'W, in snake *Philodryas nattereri*); 2008b: 193 (Brazil: State of Rio Grande do Norte: Municipality of

Serra Negra do Norte: Estação Ecológica do Seridó: 6°35'-40'S, 37°15'-20'W, in two colubrid snakes, *Philodryas nattereri*, and *Oxybelis aeneus*); Röhlig et al., 2010: 137 (Argentina: Misiones Province: Loreto near Santa Ana, from Museum für Naturkunde, Berlin, in lungs of racer *Leptophis ahaetulla liocercus* [as *Leptophis liocercus*] and *Lachesis* sp.); Poore, 2012a: 215 (types: Paraguay, from the pitviper *Rhinocerocephalus* [as *Bothrops*] *alternatus*).

Raillietiella tetrapoda; Sambon, 1922b: 391; Brygoo, 1963: 198 (parasites of snakes, at least occasionally) (not *Raillietiella tetrapoda* (Gretillat, Brygoo & Domergue, 1962)).

Cephalobaena recurvicaudata Motta, 1963c: 13, figs (types from Instituto Butantan, São Paulo: Paraguay; in *Crotalus durissus terrificus* [as *Crotalus terrificus*]); Rego, 1983: 400 (synonymized with *C. tetrapoda*).

Raillietiella furcocercum; Motta, 1963d: 8, figs 1-11 (Brazil) (not *Raillietiella furcocercum* (Diesing, 1836)).

Distr.: South America. Primary hosts: snakes.

Bothropsiella Cavalieri, 1967, genus inquirenda

Bothropsiella Cavalieri, 1967: 68.

Type species: *Bothropsiella bicornuta* Cavalieri, 1967.

Bothropsiella bicornuta Cavalieri, 1967, species inquirenda

Bothropsiella bicornuta Cavalieri, 1967: 69, figs 1-10 (female holotype: Museo de Ciencias Naturales de La Plata, northeast Argentina; in lung of *Rhinocerocephalus alternatus* [as *Bothrops alternata*]); Rego, 1984a: 50 (as species inquirenda).

Distr.: South America. Primary host: snake.

Remarks: This genus and species name do not appear on Self's (1969) nor Poore's (2012a) lists nor on web-based catalogues. We follow Rego (1984a: 50) in considering them *taxa inquirenda*, because the original descriptions of these taxa (Cavalieri, 1967: 67) are unfortunately based on a single incomplete female specimen, in which part of the anterior region is missing, and what remains of this region is somewhat twisted and retracted.

Order RAILLIETIELLIDA Almeida & Christoffersen, 1999

Raillietiellida Almeida & Christoffersen, 1999: 702 (for Raillietiellidae).

RAILLIETIELLIDAE Sambon, 1922

Raillietiellidae Sambon, 1922a: 190; Almeida & Christoffersen, 1999: 702 (referred to new order Raillietiellida); Jeffery et al., 1985: 83 (cockroach as intermediate host of a house gecko raillietiellid); Poore, 2012a: 215 (priority of name).

Raillietiellinae Sambon, 1922b: 405 (as a subfamily of the Linguatulidae).

Raillietiella Sambon, in Vaney & Sambon, 1910

Raillietiella Sambon, in Vaney & Sambon, 1910: 140; Sambon, 1922a: 191; Hett, 1924a: 134; Heymons, 1926a: 45 (anatomy and embryology); 1932a: 429; 1935: 205 (diagnosis);

Heymons & Vitzthum, 1935a: 5 (*kochi*, *geckonis*, *orientalis*, *mediterranea*, and *furcocerca* groups); Gretillat et al., 1962: 310, figs 21–23 (larva); Fain, 1964: 1036; 1966b: 623 (evolutionary cycle); Deakins, 1973: 287 (encysted larval *Raillietiella* in adult female); Ali et al., 1981: 196 (diagnostic characters of blunt hooked taxa); 1985: 111 (review, with the recognition of six groups); Rego, 1983a: 410 (*Gretillatia* as new synonym); Mattei et al., 1985: 63 (Senegal; in ringed-walled gecko, *Tarentola annularis*); Simonsen & Sarda, 1985: 428 (Tanzania; in gecko, *Hemidactylus mabouia*); Bosch, 1986: 673; 1987 (biology); Böckeler, 1986: 164 (central nervous system and body appendages); Walldorf, 1987: 441 (in house gecko, *Hemidactylus brooksi*, imported from Togo); Storch & Jamieson, 1992: 95 (sperm, ultrastructural evidence for relationship with Crustacea).

Raillietiella (*Heymonsia*) Hett, 1934: 427 (the subgenus is a *nomen nudum*, erected without a nominated type-species, see Poore, 2012a: 215).

Heymonsia; Self, 1969: 78 (synonymized with *Raillietiella*).

Mahafaliella Gretillat, Brygoo & Domerge, 1962: 304 (type-species, by original designation: *Mahafaliella tetrapoda* Gretillat, Brygoo & Domerge, 1962; synonymized by Ali et al., 1985); Rego, 1984a: 47 (diagnosis).

Gretillatia Motta, 1965: 8 (type-species, by original designation: *Raillietiella ampanihyensis* Gretillat, Brygoo & Domergue, 1962; synonymized by Ali et al., 1985).

Travassostulida Motta & Gomes, 1968a: 7 (type, by monotypy: *Travassostulida freitasi*; synonymized by Ali et al., 1985).

Type-species, subsequent designation by Sambon, 1922: *Porocephalus boulengeri* Vaney & Sambon, 1910; Poore, 2012a: 215 (conflict over the type species resolved).

Remarks: Species of this genus are often not successfully identified to species level by pentastome workers. These references are provided below, in order to complement the information known for the taxon *Raillietiella*.

Unidentified species: *Pentastomum* sp.; Krefft, 1871: 214 (Australia; in gecko, *Diplodactylus vittatus*). *Raillietiella* sp.; Sambon, 1922b: 423 (in lizards, *Calotes versicolor*, and *Varanus exanthematicus* [as *Varanus exanthematicus exanthematicus*]); Larrousse, 1925: 101, figs (Tunisia; larval form, in *Amietophrynus* [as *Bufo*] *mauritanicus*); Fain, 1961: 48, figs (Central Africa); Gretillat et al., 1962: 310, figs 21–23 (Madagascar: Tsaramandroso: Ampijoroa; larvae in chameleon *Furcifer* [as *Chamaeleo*] *oustaleti*); Cavaliere, 1967: 67 (Argentina; in snake, *Rhinocerocephalus alternatus* [as *Bothrops alternata*]); Stendel-Seidel & Gabrielle, 1977: 157 (ontogeny); Ali et al., 1982a: 174 (Nigeria: Nsukka; in gecko *Hemidactylus angulatus* [as *Hemidactylus brooksi angulatus*]); 1984a: 148 (Nigeria: Ondo State; in *Hemidactylus angulatus* [as *Hemidactylus brooksi angulatus*]); Puerto Rico: Rio das Pedras; in *Hemidactylus angulatus* [as *Hemidactylus brooksi angulatus*]; and Trinidad; in *Liophis reginae reginae* [as *Leimadophis reginae*] and *Hemidactylus mabouia*; 1984b: 92 (Seattle zoo; in *Bogertophis* [as *Elaphe*] *subocularis*); Riley & Spratt, 1987: 139 (Australia; in snakes, *Pseudechis australis* and *Pseudonaja textilis textilis* [as *Pseudonaja textilis*]); Storch & Jamieson, 1992: 98 (in *Vipera palaestinae*); Powell et al., 1993: 51 (Hispaniola; in gecko, *Hemidactylus* sp.); G. Thomas, 1995 (ontogeny); Stendel-Seidel, 1995 (ontogeny); G. Thomas & Steider-Seidel, 1996: 459 (digestive system); Jeffery et al., 1997: 145 (Malaysia; in *Gekko smithii*); Stender-Seidel & G. Thomas, 1997a: 157 (dorsal organ); Stender-Seidel et al., 1997a: 269 (dorsal organ, integumentary gland); 1997b: 264 (accessory glands); 1999: 373 (ionic glands); 2000: 385 (cephalic glands: suboral and frontal gland); G. Thomas et al., 1999a: 280 (life cycle, comparison with *R. sternalis*); 1999b: 274 (excretory function of midgut); 1999c: 312 (midgut

nutrition and digestion); Aisien et al., 2001: 299 (south-western Nigeria; in the lungs of mangrove toad, *Amietophrynus* [as *Bufo*] *regularis*); Vrcibadick et al., 2002: 355 (southern Brazil: Praia das Neves and Grussai; in skinks, *Brasiliscincus* [as *Mabuya*] *agilis*, and *Psychosaura* [as *Mabuya*] *macrorhyncha*); Giribet et al., 2005: 326 (18S and 28S rRNA sequenced, accessed from GenBank, for total evidence cladistic analysis); Fredes & Raffo, 2005: 189 (Chile; in lungs of long tailed snake, *Philodryas chamissonis*); Barton, 2007: 254 (Australia: Northern Territory; in the native gecko, *Gehyra australis*); Almeida et al., 2007: 759 (Brazil: Ceará State: Crato; in caatinga coral snake, *Micrurus ibiboboca*); Adeoye & Ogunbanwo, 2007: 417 (Nigeria: Lagos: Oyingbo; infection of agamid rainbow lizard, *Agama agama*); Goldberg et al., 2009a: 509 (Papua New Guinea; nymph in tree-frog anuran, *Litoria* [as *Litoria* and *Nyctimystes*]); Röhlig et al., 2010: 139 (non-type material from Algeria deposited in Museum für Naturkunde, Berlin). *Raillietiella* sp. a and b Riley & Spratt, 1987: 139, fig. 1. *Raillietiella* n. sp.; McAllister et al., 1992: 492 (Madagascar: Tuléar: Fort Dauphin; in Malagasy chameleon, *Furcifer* [as *Chamaeleo*] *verrucosus*). *Raillietiella* spp.; Riley et al., 1991: 47 (Puerto Rico; in geckos, *Hemidactylus mabouia*, *Hemidactylus angulatus* [as *H. brooki angulatus*], and *Hemidactylus angulatus* [as *H. brooksi haitianus*]); 2008: 290 (ova in Colombian toad, *Rhaebo* [as *Bufo*] *bombergi*); Reed, 2008: 1 (Australia; in Squamata); Brito et al., 2012: 394 (Brazil: State of Mato Grosso do Sul: Corumbá, in lung of snake *Liophis poecilogyris* and a second species in lung of pitviper *Bothropoides mattogrossensis*).

Raillietiella aegypti Ali, Riley & Self, 1982

Raillietiella aegypti Ali et al., 1982a: 171, figs 2c, e, 3 (types: northern Egypt; in agamid reptilians, *Laudakia stellio stellio* [as *Agama stellio*], *Trapelus* [as *Agama*] *mutabilis*, *Uromastix aegyptia aegyptia* [as *Uromastix aegyptia*], and scincid reptilians, *Scincus scincus* [as *officinalis*], *Chalcides sepsoides*, and *Eumeces shneideri shneideri* [as *Eumeces shneiderii*]); Ali & Riley, 1985: 415 fig. 2a (cephalic sense organs, in geckos, *Laudakia stellio stellio* [as *Agama stellio*], and *Scincus scincus* [as *officinalis*]); Riehl & Walldorf, 1985a: 748 (mitochondria); 1985b: 125 (oogenesis); Walldorf & Riehl, 1985: 113 (oogenesis, ovary, ultrastructure).

Distr.: Egypt. Primary host: lizards.

Raillietiella affinis Bovien, 1927

Raillietiella affinis Bovien, 1927a: 5, figs 4-6 (types in Natural History Museum, London, and syntype in Museum für Naturkunde, Berlin: Indonesia: Java: Djombang: Paseroean; in lung of *Gekko gekko gekko* [as *Gekko verticillatus*]); Hett, 1934: 427 (this species considered a junior synonym of *Raillietiella indica* Geddoelst, 1921, in which case an amphibian and a saurian are also hosts); Heymons, 1935: 206, pl. 34, fig. 22; Heymons & Vitzhum, 1935a: 7, fig. 3 (*gekonis* group; distribution); Brygoo, 1963: 197 (Egypt: in starred lizard, *Laudakia stellio stellio* [as *Agama stellio*], and gold skink, *Eumeces shneideri shneideri* [as *Eumeces schneiderii*]); Self & Kuntz, 1957: 196 (Nile Delta; British Solomon Islands: Florida Island, in sad gecko, *Lepidodactylus lugubris*; Sudan; in Egyptian sand skinks, *Scincus scincus* [as *officinalis*]; and *Chalcides sepsoides*); Nicoli, 1963: 494 (in *Gehyra mutilata* [as *Peropus mutilatus*]); Haffner, 1964: 51 (India; in *Hemidactylus leschenaultii*; morphology of parapodial projection); Awachie, 1974: 1024 (Africa: Nigeria; pathogenic ef-

fects on house wall gecko, *Hemidactylus angulatus* [as *Hemidactylus brooksi angulatus*], and aetiology of human porocephalosis); Ali et al., 1982a: 171, figs 1b, c, 2a, b, d (Egypt; in *Gekko gekko gekko* [as *Gekko gekko*]; description, reassessment of taxonomic status); 1985: 116 (in *Trapelus* [as *Agama*] *mutabilis*), and *Gekko gekko gekko* [as *Gekko gekko*]); Eldredge, 2000: 5 (Hawaii; in cane toad, *Rhinella* [as *Bufo*] *marinus*); Matsuo et al., 2001: 35 (Japan; in reptile, *Gekko gekko gekko* [as *Gekko gekko*]).

Raillietiella geckonis; Sambon, 1928: 67 (not *Raillietiella geckonis* (Diesing, 1850).

Distr.: Africa, Indonesia, and Hawaii. Primary hosts: lizards and man. Intermediate host: marine toad.

Raillietiella agcoi Tubangui & Masiluñgan, 1936

Raillietiella agcoi Tubangui & Masiluñgan, 1936: 400, fig. (types: Philippines: Nueva Ecija: Cabanatuan, in cobra *Naja philippinensis* [as *Naja naja philippinensis*]); Brygoo, 1963: 198 (a parasite of snakes, at least occasionally); Ali et al., 1982c: 292 (redescription; China: Taiwan; Philippine Islands); 1985: 119 (in *Naja naja*); Ali & Riley, 1985: 415, fig. 3c (cephalic sense organs, in *Naja philippinensis* [as *Naja naja philippinensis*]).

Distr.: Philippines. Primary host: cobra.

Raillietiella ampanihyensis Gretillat, Brygoo & Domergue, 1962

Raillietiella ampanihyensis Gretillat et al., 1962: 296, figs 2-11 (types: Madagascar: Ton-gobory, in air sacs of cat-eyed snake *Madagascarophis colubrinus colubrinus* [as *Madagascarophis colubrina*]; Vohitsara, in lungs of hognose snake *Leioheterodon madagascariensis*); Brygoo, 1963: 196 (Madagascar; parasite of snakes, at least occasionally); Ali et al., 1985: 121.

Gretillatia ampanihyensis; Motta, 1965: 8 (type species of new genus).

Distr.: Madagascar. Primary hosts: snakes.

Raillietiella amphiboluri Mahon, 1954

Raillietiella amphiboluri Mahon, 1954: 509, figs 1-6 (types: Australia, type-specimens from London Zoo, in lungs of the Australian bearded dragon *Pogona barbata* [as *Amphibolurus barbatus*]); Ali et al., 1985: 113 (Australia: New South Wales: Sydney: Taronga zoo); Riley et al., 1985: 42; Bosch, 1986: 673 (in insect, the cochroach, *Periplaneta americana* and in reptile, *Pogona vitticeps* [as *Amphibolurus vitticeps*]); Riley, 1992a: 402 (sex differences).

Distr.: Australia. Primary host: bearded dragon.

Raillietiella belohaensis McAllister, Riley, Freed & Freed, 1993

Raillietiella belohaensis McAllister et al., 1993: 36, fig. 1 (types: Madagascar: Beloha, in lungs of big-eyed snake, *Mimophis mahfalensis*).

Distr.: Madagascar. Primary host: snake.

Raillietiella bicaudata Heymons & Vitzhum, 1935

Raillietiella bicaudata Heymons & Vitzhum, 1935b: 157, fig. 122 (types from Berlin Aquarium, syntype from Museum für Naturkunde, Berlin: North America: south of

New York; in *Drymarchon couperi* [as *Elaphe corais couperi*], and *Lampropeltis* [as *Ophibolus*] *getula*; 1935a: 21, fig. 15 (*furcocerca* group); Heymons, 1935: 213, fig. 122; Brygoo, 1963: 198 (a parasite of snakes, at least occasionally); Ali et al., 1984b: 90, fig. 1b (USA: New York, in snake, *Drymarchon couperi* [as *Drymarchon corais couperi*]); 1985: 119 (in *Pituophis melanoleucus melanoleucus* [as *Pituophis melanoleucus*], *Lampropeltis getula* [as *getulus*], and *Coluber constrictor constrictor* [as *Coluber constrictor*]).

Distr.: North America. Primary hosts: snakes.

Raillietiella boulengeri (Vaney & Sambon, 1910)

Porocephalus boulengeri Vaney & Sambon, 1910: 132, figs (types from Muséum National d'Histoire Naturelle, Paris: Gabon; in peritoneal cavity of snake *Bitis gabonica* and from London Zoo: Ethiopia, in trachea of common puff adder *Bitis arietans*); Hett, 1915a: 115, figs (England: London gardens, in snakes, *Bitis nasicornis*, *Hemorrhois ravergeri ravergeri* [as *Coluber ravergeri*], *Psammophis sibilans*, *Hemachatus haemachatus* [as *Sepedon haemachates*], from Museum University of Oxford); Röhlig et al., 2010: 137, fig. 4a (non-type material deposited in Museum für Naturkunde, Berlin).

Raillietiella boulengeri; Vaney, 1910: 140 (placed species in *Raillietiella* as type species); Sambon, 1922a: 191, figs; Southwell, 1924: 515 (in snake, *Causus rhombeatus*); Hett, 1924a: 134, fig. 5 (England: London zoo; in elaphid snake, *Hemachatus haemachatus*); Heymons, 1935: 210, fig. 119; 1940c: 89 (Sudan; in colubrid, *Psammophis sibilans*); Heymons & Vitzthum, 1935a: 13, fig. 11 (*orientalis* group; distribution; in snake, *Naja nigricollis*); Fain, 1961: 39, figs (Congo; in colubrids, *Boaedon lineatus* [as *lineatus lineatus*], *Boaedon olivaceus*, *Crotaphopeltis hotamboeia* [as *Crotaphopeltis hotamboeia hotamboeia*], *Psammophis* [as *Dromophis*] *lineatus*, *Psammophis sibilans*, *Psammophylax rhombeatus* [also as *Psammophylax tritaeniatus rhombeatus*], *Psammophylax tritaeniatus tritaeniatus* [as *Psammophylax tritaeniatus*], *Psammophylax variabilis variabilis* [as *Psammophylax tritaeniatus variabilis*], *Thelotornis kirtlandi*, and *Thrasops jacksonii* [as *Thrasops jacksoni jacksoni*], in elaphids, *Dendroaspis jamesoni jamesoni* [as *Dendroaspis jamesoni*], and *Naja nigricollis*, and in boid, *Python regius*); Nicole, 1963: 483 (in elaphid, *Hemachatus haemachatus* [as *Sepedon haemachates*]; larvae in *Gonionotophis savognani* [as *Mehelya lamani*]); Nicole & Golvan, 1963: 141 (Angola; in viperid, *Bitis arietans*); Brygoo, 1963: 198 (Ethiopian region: Sudan; parasites snakes, at least occasionally; from Sammlungen der Institut und Veterinarschen-Medicin Parasitologie und Zoologie, Universität Berlin, in *Hemorrhois ravergeri ravergeri* [as *Coluber ravergeri*]); Doucet, 1965: 1 (in colubrids, *Bothrophthalmus lineatus*, and *Psammophis phillipsi* [as *sibilans phillipsi*]); Legendre, 1967: 338, figs 1-3 (cerebral ganglions, pharyngeal pump, and cardiac valve); Awachie, 1974: 1024 (Nigeria, in colubrids *Lycophidion capense capense* [as *Lycophidion capense*] and *Gonionotophis poensis* [as *Mehelya poensis*]; Kenya; in viperid, *Bitis arietans*, and colubrids, *Lycophidion* [as *Lycophidium*] *capense capense*, and *Gonionotophis poensis* [as *Mehelya poensis*]); Haffner, 1973: 241 (Liberia; in elaphid, *Naja melanoleuca*, and viperids, *Bitis nasicornis*, *Bitis gabonica*, and *Atheris chlorechis*); Ali et al., 1982b: 292, pl. 5 figs 1a-c, 3, 4a (Ethiopia; in *Bitis arietans*, *Hemorrhois ravergeri ravergeri* [as *Coluber ravergeri*], *Naja melanoleuca*, *Naja nigricollis* [as *Naja nigricollis nigricollis*], *Atheris chlorechis* [as *chloroechis*], and *Python regius*); 1985: 119 (revision; in *Rhamphiophis* sp.); Ali & Riley, 1985: 415 (cephalic sense organs, in *Dendroaspis jamesoni jamesoni* [as *Dendraspis*

jamesoni], and *Rhamphiophis* sp.); Riley, 1992a: 402 (sex differences); G. Thomas & Böckeler, 1992a: 587 (digestive system).

Distr.: Africa. Primary host: snakes. Intermediate host: snake.

Remarks: The acceptance of the subspecies that follows requires the introduction of the nominal subspecies *Raillietiella boulengeri boulengeri* (Vaney & Sambon, 1910), a combination that never appears in the literature as such.

Raillietiella boulengeri spiralis Heymons, 1940

Raillietiella boulengeri forma *spiralis* Heymons, 1940b: 90, fig. (type: Sudan: Sobat; in snake); Brygoo, 1963: 199 (Sudan; in snake, *Psammophis sibilans*).

Distr.: Sudan. Primary host: snake.

Remarks: This available subspecies name is not listed in Poore (2012a). *Raillietiella boulengeri* forma *spiralis* Heymons, 1940 is therein considered a potential junior homonym of *Raillietiella spiralis* Hett, 1924 at the species level (Poore, 2012a: 216).

Raillietiella bufonis Ali, Riley & Self, 1982

Raillietiella bufonis Ali et al., 1982c: 282, fig. 1 (types: Puerto Rico, from the Puerto Rico crested toad *Peltophryne* [as *Bufo*] *lemur*); Krishnasamy et al., 1995: 31, figs 3i-l.

Distr.: Puerto Rico. Primary host: toad.

Raillietiella cartagenensis Ali, Riley & Self, 1985

Raillietiella cartagenensis Ali et al., 1985: 113, figs 1c, d (types: Colombia; in gecko *Hemidactylus* sp., and skink *Gonatodes* sp.); Anjos et al., 2007: 628 (Brazil: Ceará: Barbalha Municipality; in lungs of *Hemidactylus mabouia*).

Distr.: Colombia. Primary host: lizards.

Raillietiella chamaeleonis Gretillat & Brygoo, 1959

Raillietiella chamaeleonis Gretillat & Brygoo, 1959: 112, figs 1-12 (types: Madagascar: Maintirano; in pulmonary sacs of *Furcifer* [as *Chamaeleo*] *oustaleti*, and *Furcifer* [as *Chamaeleo*] *verrucosus*); Gretillat et al., 1962: 295 (Madagascar; in colubrid snake, *Leioheterodon modestus*); Brygoo, 1963: 199, figs (Madagascar: Majunga; Ejeda: Subprefecture of Bétio; in *Leioheterodon modestus*); Ali et al., 1985: 116.

Gretillatia chamaeleonis; Motta, 1965: 8 (new combination).

Distr.: Madagascar. Primary hosts: reptiles.

Raillietiella colubrineati (Leuckart, 1860)

Pentastomum taenioides; Schübart, 1853: 117 (larva in snake *Lygophis* [as *Coluber*] *lineatus*).

Pent[astomum] colubri lineati Leuckart, 1860a: 157 (type: description and figures of primary synonym by Schubärt, 1853: 117, locality not stated, from *Lygophis* [as *Coluber*] *lineatus*).

Pentastomum colubri Diesing, 1863: 338 (type: description and figures of junior synonym by Schübart, 1853, as above).

Pentastoma colubri lineati; Sambon, 1922b: 409.

Pentastomum colubri lineata; Rego, 1984a: 53 (in *Lygophis* [as *Coluber*] *lineatus*; listed as a synonym of *Raillietiella orientalis*).

Pentastomum colubrilineati; Poore, 2012a: 216 (discussion of name formation and potential synonyms).

Distr.: Distribution uncertain; the host, now *Lygophis lineatus*, is known from northern and central-western South America (Poore, 2012a).

Raillietiella congolensis Fain, 1961

Raillietiella congolensis Fain, 1961: 48, figs (types: 'Belgian Congo': Lukulu; in vine snake, *Thelotornis capensis oatesi*); Ali et al., 1985: 121 (Africa); Poore, 2012a: 216 (year of publication confirmed as 1961).

Distr.: Democratic Republic of the Congo. Primary host: snake.

Raillietiella crotali Ali, Riley & Self, 1984

Raillietiella crotali Ali et al., 1984b: 92, figs 1c, 2 (types: Mexico: Gulf of California: Pond Island; in rattlesnake *Crotalus ruber*); 1985: 119.

Distr.: Mexican Pacific. Primary host: snake.

Raillietiella freitasi (Motta & Gomes, 1968)

Travassostulida freitasi Motta & Gomes, 1968a: 7, figs 1-9 (types of primary synonym: Brazil: Fernando de Noronha Island, in Noronha skink, *Trachylepis atlantica* [as *Mabuya punctata*]).

Travassostulida acutiacanthus Gomes & Motta, 1968: 57, figs 1-9 (types of junior synonym: Brazil: Fernando de Noronha Island and State of Bahia; in toad *Rhinella schneideri* [as *Bufo paracnemis*], and lizards, *Trachylepis atlantica* and *Tropidurus torquatus*); Vicente, 1977: 71.

Cephalobaena freitasi; Rego, 1983a: 404, figs 6-8 (new combination, transferred from *Travassostulida*); 1984a: 47.

Raillietiella freitasi acutiacanthus Rego, 1983a: 404 (new combination, subspecies rank).

Raillietiella freitasi; Ali et al., 1984a: 154 (new combination, transferred from *Travassostulida*; Brazil: Ceará State: Barbalha Municipality; in *Trachylepis atlantica* [as *atlanticus*]); 1985: 117; Brito et al., 2012: 394 (Brazil: Fernando de Noronha Islands; in lung of lizard *Trachylepis atlantica*).

Distr.: South America. Primary hosts: lizards, amphisbaenids, and frogs.

Raillietiella furcocercum (Diesing, 1836)

Pentastoma furcocercum Diesing, 1836: 26, pl. 4 figs 24-32 (*partim*; types: Brazil: Cuia-bá; in lung of snakes, *Boa constrictor*, *Coluber constrictor constrictor* [as *Coluber constrictor*],

Mastigodryas bifossatus bifossatus [as *Drymobius bifossatus*], and *Spilotes* sp.; juveniles in snake, *Mastigodryas bifossatus bifossatus* [as *Coluber lichtensteini*]).

Pentastomum bifurcatum Diesing, 1850: 609 (*partim*; in snake, *Boa constrictor*; juvenile in snake, *Coluber constrictor flaviventris* [as *Zamenis flaviventris*]; unnecessary replacement name).

Porocephalus bifurcatus; Shipley, 1898: 62, fig. 8 (in *Mastigodryas bifossatus bifossatus* [as *Drymobius bifossatus*], *Coluber constrictor constrictor* [as *Zamenis constrictor*], *Boa constrictor*, and *Amphisbaena alba*); Faria & Travassos, 1913a: 127 (Brazil: São Paulo: Itapurá); Hett, 1915a: 119, fig. 4a (London zoo; in snakes, *Boa constrictor imperator* [as *Boa imperator*], and *Pituophis melanoleucus melanoleucus* [as *Coluber melanoleucus*]).

Raillietiella furcocerca; Sambon, 1910a: 134; 1922: 191; Giglioli, 1923: 15 (redescribed; in freshwater specimens of *Amphisbaena*); Hett, 1924a: 135, fig. 6 (England: London; in lung of snakes, *Spilotes* sp., *Pituophis melanoleucus melanoleucus* [as *Pituophis melanoleucus* and *Elaphe melanoleucus*]); Heymons, 1935: 214, fig. 121; Heymons & Vitzthum, 1935a: 17, figs 13-14 (*furcocerca* group; distribution: South America: Paraguay; in *Liophis miliaris* [as *Rhadinaea fusca*], and *Pseustes* [as *Phrynonax*] *sulphureus*; Australia; in lung of snakes *Pseustes* [as *Phrynonax*] *sulphureus*, from Natteresche Sammlung im Wiener Museum, *Lachesis* sp., from Berliner Museum, and *Liophis miliaris* [as *Rhadinaea fusca*], from Berliner Museum); Motta, 1963d: 8, fig.; Brygoo, 1963: 197 (South America; in *Amphisbaena alba* [as *flavescens*]; parasites of snakes at least occasionally); Esslinger, 1968: 411, figs 1-5 (Colombia: Meta: Barbasal; egg and larva in snake, *Clelia clelia*); Klauber, 1972 (Gulf of California: Tortuga Island; in strictly Nearctic *Crotalus atrox* [as *tortugensis*]); Rego, 1983a: 408 (Brazil; in snakes, *Drymarchon corais corais* [as *Drymarchon corais*], *Crotalus durissus terrificus* [as *Crotalus terrificus*]; syn. n.); 1984a: 47, figs 2-3 (in lungs of snakes, *Coluber constrictor flaviventris* [as *Coluber flaviventris*], *Spilotes* sp., *Drymarchon corais corais*); Ali et al., 1984b: 89 (Colombia: Gorgona Island; in *Mastigodryas boddaerti boddaerti* [= *Mastigodryas boddaerti*]; Paraguay; Mexico; in snake, *Drymarchon corais corais* [as *Drymarchon corais*]); 1985: 119 (in *Bothrops atrox*, *Crotalus atrox* [as *tortugensis*], *Mastigodryas boddaerti boddaerti* [= *Mastigodryas boddaerti*], *Conophis lineatus*, *Liophis miliaris*, *Mastigodryas bifossatus bifossatus* [as *Mastigodryas bifossatus*], and *Boa constrictor imperator*); Selcer, 1987: 4036 (in Mediterranean gecko, *Hemidactylus turcicus turcicus* [as *Hemidactylus turcicus*]); Böckeler & Böhme, 1987: 52 (Paraguay; in serpents); Almeida & Christoffersen, 2002: 201; Almeida et al., 2007: 759 (Brazil: Ceará State: Crato Municipality: 7°14'S 39°24'W, in snake, *Philodryas nattereri*); 2008c: 193 (Brazil: Rio Grande do Norte State: Serra Negra do Norte Municipality; Estação Ecológica do Seridó; 6°35-40'S, 37°15-20'W, in colubrid snakes, *Philodryas nattereri*, and *Oxybelis aeneus*); Röhligh et al., 2010: 139 (non-type material from San Bernardino, Uruguay, deposited in Museum für Naturkunde, Berlin); Brito et al., 2012: 394 (Brazil: São Paulo: Pirambóia; in stomach of snakes *Thamnodynastes chaquensis* and *Crotalus durissus durissus* [as *Crotalus durissus*]).

Pentastoma furcocercum; Dujardin, 1845: 308 (Brazil; in lungs of *Amphisbaena alba* [as *flavescens*], and mesenteries of *Mastigodryas bifossatus bifossatus* [as *Coluber lichtensteini*]); Gedoelst, 1921: 26; Rego, 1983a: 408 (Brazil: São Paulo: Instituto Butantan; Mato Grosso: Salorta and Bodoquena; Pará: Taperinha).

Not *Raillietiella furcocerca*; Giglioli, 1923: 15 (redescription; p.p. = *Raillietiella gigliolii*); Sambon, 1922 (p.p. = *Cephalobaena gigliolii*).

Not *Raillietiella furcocerca*; Motta, 1963d: 8, figs 1-11 (Brazil; = *Cephalobaena tetrapoda*).

Raillietiella gomesi Motta, 1963e: 9, figs 1-2 (types from Instituto Butantan, São Paulo: Brazil: São Paulo: egg and larva in lung sac of *Xenodon merremii*) (synonymized by Rego, 1983).

Raillietiella aff. *furcocerca*; E.J.R. Dias et al., 2005: 133 (Brazil: Bahia State; in whiptail lizards, *Cnemidophorus abaetensis*, and *Cnemidophorus ocellifer*).

Raillietiella furcocercum; Poore, 2012a: 216 (the name appears to be a neuter noun in apposition to *Pentastoma*, not requiring change of its ending).

Distr.: South America and Mexican Pacific. Primary hosts: snakes and lizards.

Remarks: The record from Australia is not listed by Riley et al. (1985) or Poore & Spratt (2011), probably representing a misidentification.

Raillietiella geckonis (Diesing, 1850), *species dubiae*

Pentastome du Gecko de Siam"; Dujardin, 1845: 309 (type: record from Thailand; in lung of gecko of Siam, possibly *Gekko gekko gekko* [as *Gekko verticillatus*], according to Hett, 1924: 137).

Pentastomum geckonis Diesing, 1850: 617 (type: bibliographic reference to Dujardin's record [1845: 309] of specimens from Thailand, from 'gecko of Siam').

Porocephalus geckonis; Shipley, 1898: 67 (Siam; in lung of *Gekko* sp.).

Raillietiella geckonis; Sambon, 1910a: 134; 1922: 191; Gedoelst, 1921: 26; Hett, 1924a: 137 (England: London, in lungs of gecko, *Hemidactylus flaviviridis*); 1934: 430; Heymons, 1935: 205; 1939: 676, fig. 1 (India; in *Calotes versicolor*); Heymons & Vitzhum, 1935a: 7 (*geckonis* group; distribution: South-West Asia); Brygoo, 1963: 197 (India; at least occasionally, parasites of snakes); Ali et al., 1982a: 178 (Egypt; in lizards; reassessment of taxonomic status); Poore, 2012a: 217 (doubtful name attributable to any known species, but a potential senior synonym of several species from southeast Asia).

Not *Raillietiella geckonis*; Sambon, 1928: 67 (= *Raillietiella affinis*).

Distr.: South Asia and Africa. Primary hosts: snakes and lizards.

Remarks: Original description inadequate, host uncertain (Wikipedia, 2012).

Raillietiella gehyrae Bovien, 1927

Raillietiella gehyrae Bovien, 1927a: 7, fig. 7 (types: Indonesia: Bandung; Java: Djombang; in gecko, *Gehyra mutilata*); 1927b: 289 (Indonesia: Bandung; Java: Djombang; in hemidactylid, *Gehyra mutilata*); Heymons, 1935: 206; Heymons & Vitzhum, 1935a: 9 (*geckoni* group); Self & Kunz, 1957: 194 (Egypt: Beheira Province: Ramleh; in *Laudakia stellio stellio* [as *Agama stellio*]; very difficult to separate *R. gehyrae* from *R. affinis*); Brygoo, 1963: 197; Ramachandran, 1977: 84 (India: Kerala; in *Calotes versicolor*, *Gekko* sp., and *Eutropis* [as *Mabuya*] *carinata*); Hirji, 1980b: 99 (in lungs of *Trachylepis striata striata* [as *Mabuya striata*]; evidence for direct life cycle); Ali et al., 1981: 199, figs 4, 9 (Indonesia: Java: Bandung; in *Gehyra mutilata*; emended diagnosis; Egypt, in *Laudakia stellio stellio* [as *Agama stellio*]); 1985: 117; Ali & Riley, 1983: 150, figs 1, 2, pl. 1, 2 (Malaysia: Kuala Lumpur and Kuching; Indonesia: Java: Bogor; in common house-gecko, *Hemidactylus frenatus*, four-clawed gecko *Gehyra mutilata*, flat-tailed gecko, *Hemidactylus* [as *Cosymbotus*] *platyurus*, and cockroach nymphs in intermediate host, *Blaberus discoidalis*); Dutta &

Manna, 1992: 99 (India: West Bengal; in lungs of reptile, *Calotes versicolor*); 1995: 79; Sathyanarayana & George, 1994: 71 (India: Tamil Nadu; rates of infection in reptilian host, *Calotes versicolor*); Matsuo & Oku, 2002: 53 (Indonesia: Lampung; in lungs of house geckos).

Raillietiella gephyrae Bovien, 1927a: 1 (incorrect original spelling; in *Fejervarya* [as *Rana*] *cancrivora*).

Not *Raillietiella gephyrae*; Pence & Canaris, 1973: 1 (= *Raillietiella mabuiae* Heymons, 1982, reassigned by Ali et al., 1981).

Distr.: Indonesia. Primary hosts: lizards. Intermediate host: cockroach.

Raillietiella giglioli Hett, 1924

Pentastoma furcocercum; Diesing, 1836 (*partim*); Hett, 1924a: 107 (types from London Zoo: South America, in lizard worm, *Amphisbaena alba* [as *flavescens*]).

Pentastomum bifurcatum; Diesing, 1850 (*partim*) (p.p. = *Raillietiella furcocercum*).

Raillietiella furcocerca; Sambon, 1922 (*partim*); Giglioli, 1923: 15 (South America; in *Amphisbaena alba*).

Raillietiella giglioli Hett, 1924a: 137; Heymons, 1935: 214; Heymons & Vitzhum, 1935a: 20, fig. 15 (*furcocerca* group); Brygoo, 1963: 199; Rego, 1983a: 406 (referred to *Cephalobaena*); 1984a: 47 (in lungs of amphisbaenids, *Amphisbaena alba* and *Amphisbaena* sp.); Ali et al., 1984b: 93, fig. 1d (Trinidad, from *Amphisbaena alba*); Winch & Riley, 1985: 471 (Trinidad; in reptile host, *Amphisbaena alba*, orthopteran host, *Periplaneta americana*, and coleopteran host, *Microctenochira* [as *Coelosis*] *bilobata*; life cycle, experimental study); Almeida et al., 2006b: 1137 (Brazil: Ceará State: Crato Municipality: Floresta Nacional do Araripe: 7°16'S 39°26'W; in *Amphisbaena alba*); 2009a: 1183 (Brazil: Ceará State: Crato and Cruz do Espírito Santo Municipalities: Floresta Nacional do Araripe; in *Amphisbaena vermicularis*).

Cephalobaena giglioli; Rego, 1983a: 406, figs 13-14 (Brazil; in amphisbaenid *Amphisbaena alba*; new combination, transferred from *Raillietiella*).

Distr.: South America. Primary hosts: worm lizards. Intermediate hosts: cockroach and beetle.

Raillietiella gowrii Rajalu & Rajendran, 1970

Raillietiella gowrii Rajalu & Rajendran, 1970: 130 (types: India, from the Asiatic watersnake, *Xenochrophis piscator*); Karuppaswamy, 1977: 735 (β -chitin in cuticle); Gowri et al., 1982: 117 (neurosecretion); Ali et al., 1985: 121 (India; in *Xenochrophis piscator*; a potential junior synonym of *R. orientalis* Hett, 1915); Cave et al., 1998: 19.

Distr.: India. Primary host: snake.

Raillietiella hebitihamata Self & Kuntz, 1960

Raillietiella hebitihamata Self & Kunz, 1961: 885, figs 1-4 (types: Taiwan: Formosa: Lan Yü Island; in Asian house gecko *Hemidactylus frenatus*; other reptile hosts: *Japalura swinhornis*, *Mabuya longicaudata*, *Sphenomorphus indicus*, and *Gekko monachus*); Self & Garcia-Diaz, 1961: 912 (synonymized with *R. hemidactyli*); Poore, 2012a: 217 (status of species, *R. frenata* and *R. indica* probable synonyms).

Raillietiella hemidactyli; Rajamanickam & Lavoipierre, 1965: 72 (larvae in cockroach, *Periplaneta americana*); Lavoipierre & Lavoipierre, 1966: 845; Lavoipierre & Rajamanickam, 1973: 301 (non Hett, 1934).

Raillietiella frenatus Ali et al., 1981: 199, pl. 4, figs 1, 2, 5 (types: Malaysia: Sarawak; Kuching; Taiwan: Lan Yü; South Vietnam; Thailand; in Asian house gecko *Hemidactylus frenatus*); 1985: 117; Ali & Riley, 1983: 147 (in geckos; insects as intermediate hosts); 1985: 413, fig. 3a (Malaysia: Kuala Lumpur; Kuching; cephalic sense organs; Indonesia: Java: Bogor; cephalic sense organs, in house geckos, *Hemidactylus frenatus*, and in flat tailed gecko, *Hemidactylus* [as *Cosymbotus*] *platyurus*); Selcer, 1987: 4036 (USA: Texas; in Mediterranean gecko, *Hemidactylus turcicus turcicus* [as *Hemicactylus turcicus*]); Pence & Selcer, 1988: 565; Sulaiman et al., 1995: 177 (Malaysia: Johore: Endau; in insect, *Periplaneta australasiae*, and reptilian, *Hemidactylus frenatus*); Goldberg & Bursey, 1997: 54 (Hawaii; in gecko, *Lepidodactylus lugubris*); 2000: 750 (Hawaii: Oahu; in the introduced brown anole, *Norops* [as *Anolis*] *sagrei*); Hanley et al., 1998: 201 (Hawaii: Oahu; in invasive gecko, *Hemidactylus frenatus*, and resident gecko, *Lepidodactylus lugubris*); Eldredge, 2000: 5; Matsuo & Oku, 2002: 53 (Indonesia: Lampung; in lungs of house geckos); Goldberg et al., 2002: 409; 2005: 88 (Philippine Islands; in lizards); 2010: 462 (Papua New Guinea; in skink, *Prasinohaema virens*); Barton, 2007: 254 Australia: Northern territory and Queensland; adults and nymphs infecting introduced Asian house gecko, *Hemidactylus frenatus*); Anjos et al., 2007: 628 (Brazil: Ceará State: Barbalha Municipality; in *Hemidactylus mabouia*); 2008: 611; Almeida et al., 2008b: 885 (Brazil: State of Paraíba: João Pessoa; in lizards of urban areas, *Hemidactylus mabouia*, and *Tropidurus hispidus*); Reed, 2008: 1 (Australia; in Squamata); Anjos & Rocha, 2008: 196; Kelehear et al., 2011 (genetic and morphological identity of specimens from cane toads and from *Hemidactylus frenatus* identified as *R. indica* and *R. frenatus*); 1912: 1596 (Australia; infection dynamics in cane toad *Rhinella marina*).

Distr.: Southeast Asia, Pacific Islands, Christmas Island and Australia. Primary hosts: reptiles.

Remarks: Poore (2012a: 218) discusses the possibility that this species is a junior synonym of *R. indica* Geddoelst, 1921. Poore (2012a: 217) also shows that *R. frenata* Ali et al., 1981 automatically becomes a junior synonym of *R. hebitihamata* Self & Kuntz, 1960, because Ali et al. (1981) included the type-specimens of *R. hebitihamata* in the material of *R. frenata*.

Raillietiella hemidactyli Hett, 1934

Raillietiella (*Heymonsia*) *hemidactyli* Hett, 1934: 428, figs 1-4 (types: Burma; in lungs of *Hemidactylus gleadowi* [as *gleadowi*], and *Calotes versicolor*); Dollfus & Canet, 1954: 401 (Vietnam, in *Hemidactylus frenatus*, and *Gehyra mutilata*); Gretillat & Brygoo, 1961: 71 (copulation dilatator; Madagascar: Marovoay; in air sacs of *Hemidactylus frenatus*).

Raillietiella hemidactyli; Self & García-Díaz, 1961: 912 (Puerto Rico; in gecko, *Hemidactylus mabouia*; synonymy); Brygoo, 1963: 198 (Madagascar: Marovoay, in gecko, *Hemidactylus frenatus*; Tuléar, in *Furcifer* [as *Chamaeleo*] *verrucosus*; Antsalova, in *Furcifer* [as *Chamaeleo*] *oustaleti*); Fain, 1964: 1036 (Congo; in *Hemidactylus mabouia*); Wingstrand, 1972 (Thailand; in *Calotes versicolor*; comparative spermiology); Pence & Canaris, 1973: 1 (Kenya; in *Trachylepis* [as *Mabuya*] *homalocephala*); Ramachandran, 1977: 84 (India:

Andhui; Adras; in *Calotes versicolor*, *Gekko* sp., and *Eutropis* [as *Mabuya*] *carinata*); Storch, 1979: 637 (ultrastructural evidence for relationship with crustacean branchiuran, *Argulus foliaceus*); Ali et al., 1981: 199, figs 3a, 3b, 5 (emended diagnosis; Burma; India: Madras; West Pakistan; in *Calotes versicolor*); 1984a: 154, figs 2c, 3 (India; in *Calotes versicolor*); 1985: 117; Sinha & Nikhil, 1985: 175 (India; causing pulmonary pathology in reptilian, *Calotes versicolor*); G. Thomas & Böckeler, 1992a: 587 (digestive system); Goldberg et al., 2003: 52 (Pakistan; in lizards); Martínez Rivera et al., 2003: 321 (throughout the Caribbean and South America); Röhlig et al., 2010: 139 (non-type material deposited in Museum für Naturkunde, Berlin).

Non *Raillietiella hemidactyli*; Rajamanickam & Lavoipierre, 1965, Lavoipierre & Lavoipierre, 1966, Lavoipierre & Rajamanickam, 1973 (= *R. hebitihamata*).

Raillietiella cf. *hemidactyli*; Mallat & Giribet, 2006: 772 (18 and 28S rRNA GenBank sequences).

Distr.: Africa, South-east Asia, Caribbean and South America (?). Primary hosts: lizards.

Raillietiella indica Geddoelst, 1921

Raillietiella indica Geddoelst, 1921: 25 (type from Indian Museum, Calcutta: ? India; in lung of *Duttaphrynus* [as *Bufo*] *melanostictus*); Sambon, 1922a: 191; Hett, 1924a: 137, fig. 7; Heymons, 1935: 207; Heymons & Vitzhum, 1935a: 9 (*geckonis* group; distribution); Brygoo, 1963: 196 (India; only parasite of batrachian, *Duttaphrynus* [as *Bufo*] *melanostictus*); Ali et al., 1982a: 177 (Egypt; in lizards; status); 1982c: 282 (Taiwan, immature stages in definitive host, *Duttaphrynus* [as *Bufo*] *melanostictus*); 1985: 113 (Malaysia; in *Duttaphrynus* [as *Bufo*] *melanostictus*); Krishnasamy et al., 1995: 31, fig. 3e-h (Taiwan; reassessment of taxonomic status; immature forms in *Duttaphrynus* [as *Bufo*] *melanostictus*); Barton & Riley, 2004: 251 (USA: Hawaii; in lungs of the giant toad, *Rhinella marina* [as *Bufo*] *marinus*); Eldredge, 2006: 68 (Hawaii; in lungs of marine toad, *Rhinella marina* [as *Bufo*] *marinus*); Kelehear et al., 2011: figs 1-7 (tropical Australia: from lungs of the invasive cane toad *Rhinella marina*, the invasive Asian house gecko, *Hemidactylus frenatus*, and a native tree frog, *Litoria caerulea*); Poore, 2012a: 217 (possible senior synonymy of this over *R. frenata* and synonymy *R. hebitihamata* discussed).

Raillietiella (*Heymonsia*) *indica*; Hett, 1934: 428 (Java, India, Burma; in *Duttaphrynus* [as *Bufo*] *melanostictus*, and lung of *Gekko gekko gekko* [as *Gekko verticillatus*]).

Distr.: Africa, India, Malaysia, and Australia. Primary hosts: toads and lizards. Intermediate host: insects.

Raillietiella kochi Heymons, 1926

Porocephalus bifurcatus; Shipley, 1910: 275 (from Berlin Aquarium: Africa: Abyssinia (now Ethiopia); in lungs of *Varanus exanthematicus*, and *Varanus griseus griseus* [as *Varanus griseus*]).

Raillietiella kochi Heymons, 1926a: 45, figs 1-2 (syntypes from Berlin Aquarium: Ethiopia (Röhlig et al., 2010), paratype from Hamburg Museum (Weidner, 1959): Abyssinia (now Ethiopia); in lung of *Varanus exanthematicus* [as *ocellatus*], from Berliner Aquarium, in collection of Institutes für Veterinärmedizinische Parasitologie und Zoologie der

Universität Berlin); 1935: 207, fig. 116; Heymons & Vitzhum, 1935a: 9, figs 5-6 (*kochi* group; in gecko, *Varanus griseus griseus* [as *Varanus griseus*], from Berlin Aquarium); Brygoo, 1963: 197; Ali et al., 1985: 113, fig. 1a (Ethiopia; in *Varanus exanthematicus* [as *Varanus exanthematicus ocellatus*]); Cave et al., 1998: 19.

Raillietiella shipleyi Heymons, 1926a: 46, fig. 3 (syntypes in Museum für Naturkunde, Berlin (Röhlig et al., 2010): Southwest Asia; in lungs of *Varanus exanthematicus* [as *ocellatus*]); 1935: 208, fig. 117; Heymons & Vitzhum, 1935a: 10, fig. 7 (*kochi* group; distribution); Brygoo, 1963: 197; Ali et al., 1985: 113, fig. 1b (in *Varanus* sp.; as synonym of *R. kochi*).

Distr.: Africa and southwest Asia. Primary hosts: monitor lizards.

Raillietiella mabuiae Heymons, 1922

Raillietiella mabuiae Heymons, 1922: 157, fig. 3 (types from Museum für Naturkunde, Berlin, 3 syntypes from Museum für Naturkunde, Berlin (Röhlig et al., 2010): South West Africa: Namibia; in lungs of an African skink, *Trachylepis* [as *Mabuya*] *sulcata*); 1935: 206, fig. 9; Sambon, 1922b: 391, fig. 1; Heymons & Vitzhum, 1935a: 8, fig. 4 (*gecko-nis* group); Brygoo, 1963: 197; Ali et al., 1981: 196 (emended diagnosis; South West Africa; in *Trachylepis* [as *Mabuya*] *sulcata*); 1984a: 149, fig. 1a (Namibia; in *Trachylepis* [as *Mabuya*] *sulcata*); 1985: 117; McAllister et al., 2011: 148 (Namibia: Lüderitz District, in lungs of *Chamaeleo namaquensis*).

Raillietiella (*Heymonsia*) *mabuiae*; Hett, 1934: 428 (German south west Africa; in lung of scinid, *Trachylepis* [as *Mabuya*] *sulcata*, from Berliner Museum).

Raillietiella gehyrae; Pence & Canaris, 1973: 1 (Kenya; in *Trachylepis* [as *Mabuya*] *homalocephala*).

Distr.: South west Africa (Kenya and Namibia). Primary host: lizards.

Raillietiella maculatus S.R. Rao & Hiregaudar, 1962

Raillietiella maculatus S.R. Rao & Hiregaudar, 1962: 42 (types: India: Mumbai; male in *Hemidactylus maculatus*, *H. leschenaulti*, and *Eutropis* [as *Mabuya*] *carinata*); Ali et al., 1982a: 177 (Egypt; status); 1984a: 154, figs 1c, 3; 1985: 117.

Distr.: India. Primary hosts: lizards.

Raillietiella maculilabris Ali, Riley & Self, 1984

Raillietiella maculilabris Ali et al., 1984a: 149, figs 1d, 4 (types: Tanzania: Dar es Salaam; in speckle-lipped mabuya *Trachylepis* [as *Mabuya*] *maculilabris*, and African striped skink *Trachylepis* [as *Mabuya*] *striata*); 1985: 117.

Distr.: Africa. Primary hosts: lizards.

Raillietiella madagascariensis McAllister, Riley Freed & Freed, 1993

Raillietiella madagascariensis McAllister et al., 1993: 40, figs 2-4 (types: Madagascar: Beloha; in lungs of colubrid snake, *Liophidium vaillanti*).

Distr.: Madagascar. Primary host: snake.

Raillietiella mediterranea (Hett, 1915)

Porocephalus bifurcatus var. *mediterranea* Hett, 1915a: 121, fig. 4e, f (type from London Gardens: England; in snake, *Hierophis* [as *Coluber*] *gemonensis*).

Raillietiella bifurcata var. *mediterranea*; Geddoelst, 1921: 26 (in *Hierophis* [as *Zamenis*] *gemonensis*).

Raillietiella mediterranea; Sambon, 1922a: 192; Hett, 1924a: 138, fig. 8; Heymons, 1935: 211, fig. 120; Heymons & Vitzthum, 1935a: 15, fig. 12 (*mediterranea* group; distribution in lung of aglyphid, *Platycephalus najadum* [as *Coluber dahlia*]); Nicoli, 1963: 496 (larvae in *Amietophrynus* [as *Bufo*] *mauritanicus*); Brygoo, 1963: 198 (parasites snakes, at least occasionally); Ali et al., 1985: 121 (Mediterranean region?); Röhlig et al., 2010: 139 (non-type material deposited in Museum für Naturkunde, Berlin).

Distr.: Europe. Primary hosts: snakes.

Raillietiella monarchus Ali, Riley & Self, 1984

Raillietiella monarchus Ali et al., 1984a: 154, figs 1b, 4 (types: Malaysia: Kuala Lumpur; Taiwan; in monarch gecko, *Gekko monarchus*); 1985: 117.

Distr.: South-west Asia. Primary host: lizard.

Raillietiella morenoi Abreu-Acosta, Foronda, Rodriguez,
Valladares & Casanova, 2006

Raillietiella morenoi Abreu-Acosta et al., 2006: 426, figs 1-2 (types: Canary Islands: Alegranza Island; in lungs of lizard, *Gallotia atlantica atlantica* [as *Gallotia atlantica*]); Salvador, 2009: 5.

Distr.: Canary Islands. Primary host: lizard.

Raillietiella mottae Almeida, Freire & Lopes, 2008

Raillietiella mottae Almeida et al., 2008d: 200, figs 1-4 (types: Brazil: Ceará State: Farias Brito Municipality; caatinga: 6°59'S, 39°31'W; from *Tropidurus hispidus*); 2008e: 427, fig. 1 (Brazil: Paraíba State: Estação Experimental São José do Cariri, caatinga; in lizards, *Tropidurus hispidus*, *Tropidurus semitaeniatus*, *Phyllorhynchus periosus*, and *Phyllorhynchus pollicaris*); 2009b: 963 (Brazil: Ceará State: Chapada do Araripe; in lungs of lizard, *Tropidurus hispidus*, *Tropidurus semitaeniatus*, *Phyllorhynchus periosus*, and *Phyllorhynchus pollicaris*); 2009c: 197 (Brazil: Paraíba State: Mataraca Municipality: Mataraca; in lungs of gymnophthalmid lizard from Restinga habitat, *Micrablepharus maximiliani*); Anjos et al., 2007: 611 (Brazil: Ceará State: Barbalha Municipality infecting an invader lizard, *Hemidactylus mabouia*); Anjos & Rocha, 2008: 196; Ribeiro et al., 2012: 929 (Brazil: Ceará: Chapada do Araripe; in lungs of lizard *Mabuya arajara*).

Distr.: Northeast Brazil. Primary hosts: lizards.

Raillietiella namibiensis Riley & Heideman, 1998

Raillietiella namibiensis Riley & Heideman, 1998: 43, fig. 1 (types: Namibia: Wind-

hoek; in lungs of agamid lizards, *Agama aculeata aculeata*, and *Agama planiceps* [as *Agama planiceps planiceps*]); Heideman, 2002: 37.

Distr.: Namibia. Primary hosts: lizards.

Raillietiella orientalis (Hett, 1915)

Porocephalus bifurcatus var. *orientalis* Hett, 1915a: 120, fig. 4c, d (types from London gardens: India; in the ratsnake *Ptyas mucosa* [as *Zamenis mucosus*], and Indian cobra *Naja naja* [as *Naia tripudians*]).

Raillietiella bifurcata var. *orientalis*; Gedoelst, 1921: 26 (larvae encysted in liver and lung of *Xenochrophis* [as *Tropidonotus*] *piscator*, in connective tissue of back and lung of *Bungarus multicinctus*; in body wall of *Ptyas mucosa* [as *Zamenis mucosus*], in connective tissue of *Naja naja* [as *tripudians*], and in fat-body of *Bungarus fasciatus*); Hett, 1921: 163 (India: Calcutta; in coelom of cobra, *Naja naja* [as *tripudians*], and rat-snake).

Raillietiella orientalis; Sambon, 1922a: 192; Hett, 1924a: 138; 1934: 430 (Burma; adult in colubrid, *Xenochrophis* [as *Tropidonotus*] *piscator*, in liver and lungs of *Ptyas mucosa* [as *Zamenis mucosus*], and in elaphid, *Bungarus multicinctus* [as *Bungarus candidus multicinctus*]; in young snake, *Ptyas mucosa* [as *Coluber mucosus*], from Institut für Veterinarien Parasitologie und Zoologie der Universität Berlin; larva in body cavity of *Naja naja* [as *Naja tripudians* and *Naja haje*], from Sammlungen der Institut Veterinarien Medicine und Parasitologie, Berlin); Heymons, 1935: 209, fig. 118 (South Italy; in colubrid, *Elaphe quatuorlineata quatuorlineata* [as *Elaphe quatuorlineata*]; China: Nanking; in viperid, *Gloydius brevicaudus brevicaudus* [as *Ancistrodon blomhoffi* var. *brevicaudus*]; *Pentastomum colubrinei* Leuckart, 1860, a younger name, listed in the synonymy of *R. orientalis*); 1939: 675 (Iran; in viperid, *Daboia* [as *Vipera*] *russelii*, and boid, *Python molurus*); Heymons & Vitzhum, 1935a: 12, figs 8-10 (*orientalis* group; distribution: Africa, South Italy, south and west Asia; South Italy; from Berliner Aquarium; Nanking; from Wiener Museum; in snake, *Naja naja* [as *Naia haje*]); Pujatti, 1951: 23, fig. (female redescribed; South India: Bangalore: near Jalihalli; in *Coelognathus* [as *Coluber*] *helena*); Brygoo, 1963: 198 (Ethiopian region; parasites snakes, at least occasionally); Salazar, 1964: 171, figs (Philippines; in lungs and body cavity of boid snake, *Broghammerus* [as *Python*] *reticulatus*); Deakins, 1969: 1 (hyperinfection in serpent, *Naja philippinensis* [as *Naja naja philippinensis*]); Keegan et al., 1969: 147, figs (South East Asia: Taiwan; in viperid, *Daboia* [as *Vipera*] *russelii*, and elaphid, *Naja atra* [as *Naja naja atra*]; Japan; in viperid, *Protobothrops flavoviridis* [as *Trimeresurus flavoviridis flavoviridis*]; Malaysia; female in viperid, *Calloselasma* [as *Agkistrodon*] *rhodostoma*); Kagei, 1973: 141 (Japan; in elaphids, *Naja kaouthia* [as *Naja naja kaouthia*], and *Naja atra* [as *Naja naja atra*]); Yamamoto et al., 1978: 143 (Japan; in viperids, *Protobothrops* [as *Trimeresurus*] *flavoviridis*, *Ovophis* [as *Trimeresurus*] *okinavensis*, and *Daboia siamensis* [as *Vipera russelii formosensis*]); Ali et al., 1982b: 292, pl. 6 figs 2a-c, 3, 4b (revision; China: Hong Kong; Taiwan; Malaysia: Sabah; Indonesia: Tie Polonga; Komodo Islands; India: Calcutta zoo; Pakistan; in *Ptyas mucosa* [as *mucosus*], *Xenochrophis piscator*, *Coelognathus* [as *Elaphe*] *helena*, *Elaphe carinata carinata* [as *Elaphe carinata*], *Psammodynastes pulverulentus pulverulentus* [as *Psammodynastes pulverulentus*], *Dinodon semicarinatum* [as *semicarinatus*], *Amphiesma pryri*, *Bungarus multicinctus*, *Deinagkistrodon* [as *Ancistrodon*] *acutus*, *Trimeresurus gramineus*, and *Daboia* [as *Vipera*] *russelii*); 1985: 115 (in *Deinagkistrodon* [as *Agkistrodon*] *acutus*, *Echis carinatus carinatus* [as *Echis carinatus*], *Elaphe*

carinata carinata [as *Elaphe carinata*], *Protobothrops flavoviridis* [as *Trimerosurus mucrosquamatus*], *Trimeresurus gramineus*, *Xenochrophis piscator*, *Dendrelaphis pictus pictus* [as *Dendrophis pictus*], and *Broghammerus* [as *Python*] *reticulatus*]; Hasegawa, 1985: 1 (Japan: Okinawa; in reptilian); Dang, 2000: 27 (life cycle); 2001: 11 (Vietnam; description); Röhlig et al., 2010: 139, fig. 4b (non-type material deposited in Museum für Naturkunde, Berlin).

Distr.: Italy (?), Africa, and Asia. Primary hosts: snakes and man.

Remarks: If the synonym of *R. colubrilineati* (Leuckart, 1860) with *R. orientalis* Hett, 1915, proposed by Heymons (1935: 209), were accepted, the former would become the valid name for this species.

Raillietiella piscator Nair, 1967

Raillietiella piscator Nair, 1967: 463, fig. (types: India: Kerala: Irinjalakuda; in lungs of water snake, *Xenochrophis* [as *Tropidonotus*] *piscator*); Ali et al., 1985: 121 (in *Xenochrophis piscator*; possibly a synonym of *R. orientalis*).

Distr.: India. Primary hosts: snakes.

Raillietiella rileyi Krishnasamy, Jeffery, Inder, Singh & Oothuman, 1995

Raillietiella rileyi Krishnasamy et al., 1995: 33, figs 1, 2, 3a-d (types: Malaysia: Kuala Lumpur, in lung of *Duttaphrynus* [as *Bufo*] *melanostictus*).

Distr.: Malaysia. Primary host: toad.

Raillietiella schoutedeni Fain, 1960

Raillietiella schoutedeni Fain, 1960b: 117 (type: female; 'Belgian Congo': Bolobo; in lung of *Monopeltis schoutedeni*; types from Congo Museum, in Tervuren); 1961: 47, figs (Central Africa).

Distr.: Democratic Republic of the Congo. Primary host: worm lizard.

Raillietiella scincoides Ali, Riley & Self, 1984

Raillietiella scincoides Ali et al., 1984a: 155, figs 2a, 4 (types: South Australia: Murray River; in blue-tongued skink, *Tiliqua scincoides scincoides* [as *Tiliqua scincoides*]); 1985: 117; Bursey & Goldberg, 1999: 176 (Australia: Western Australia; in gecko, *Nephurus laevis*).

Distr.: Australia. Primary hosts: lizards.

Raillietiella spiralis Hett, 1924

Raillietiella spiralis Hett, 1924c: 301 (types: Palestine; in lung of opisthoglyph colubrid, *Malpolon* [as *Coelopeltis*] *monspessulana*); 1924a: 139, fig. 9; Heymons, 1935: 211, figs; 1940b: 92, fig. (as a form of *R. mediterranea*); Heymons & Vitzthum, 1935a: 16 (*mediterranea* group); Brygoo, 1963: 198 (parasites in snakes, at least occasionally); Ali et al., 1985: 12 (Israel).

Raillietiella orientalis spiralis; Heymons, 1940a: 91, fig.

Distr.: Israel. Primary host: snake.

Remarks: This species was described as new in both the Hett (1923) and Hett (1924) papers, so that the former year becomes the correct publication date.

Raillietiella teagueselfi Riley, McAllister & Freed, 1988

Raillietiella teagueselfi Riley et al., 1988: 483, figs 1-3 (types: USA: Texas: Harris County: Houston zoo; in Mediterranean gecko, *Hemidactylus turcicus turcicus* [as *Hemidactylus turcicus*]).

? *Raillietiella teagueselfi*; Riley et al., 1991: 50, fig. 2 (Nigeria: Lagos; in the gecko, *Hemidactylus angulatus* [as *Hemidactylus brookii angulatus*]).

Distr.: North America and Africa. Primary hosts: lizards.

Remarks: This species was not included in Poore's (2012a) list.

Raillietiella tetrapoda (Gretillat, Brygoo & Domergue, 1962)

Mahafaliella tetrapoda Gretillat et al., 1962: 304, figs 13-20 (type: male; Madagascar: Egogy: Subprefecture of Ampanihy; in *Acrantophis dumerili*).

Distr.: Madagascar. Primary host: Madagascar boa.

Raillietiella trachea Riley, Oaks & Gilbert, 2003

Raillietiella trachea Riley et al., 2003: 156, fig. 1 (types: Pakistan: Punjab Province; in vulture, *Gyps bengalensis*).

Distr.: Pakistan. Primary host: white-backed vulture; autoinfection?

Raillietiella venteli (Motta, 1965), *nomen dubium*

Mahafaliella venteli Motta, 1965: 7, figs 1-4 (types: Brazil: State of Mato Grosso: Porto Esperança, in stomach of snake, *Bothrops atrox*); Rego, 1983a: 410, figs 15-16 (Brazil: São Paulo: Instituto Butantan; as a *nomen dubium*); 1984a: 47, fig. 4.

Distr.: Brazil. Primary host: snake.

Yelirella Spratt, 2010

Rileyella Spratt, 2003: 236 (type-species: *Rileyella petauri* Spratt, 2003).

Yelirella Spratt, 2010: 319 (replacement name for *Rileyella* Spratt, 2003, a junior homonym of *Rileyella* Townsend, 1909 (Diptera: Tachinidae)).

Type-species, by monotypy: *Rileyella petauri* Spratt, 2003.

Yelirella petauri (Spratt, 2003)

Rileyella petauri Spratt, 2003: 236 (types: Australia: New South Wales and Queensland; in lungs and nasal sinus of the petaurid marsupial, *Petaurus breviceps breviceps* [as *Petaurus breviceps*]).

Yelirella petauri; Spratt, 2010: 319.

Distr.: Australia. Primary host: marsupial.

Order REIGHARDIIDAE Almeida & Christoffersen, 1999

Reighardiida Almeida & Christoffersen, 1999: 702 (erected for one family, Rheighardiidae).

REIGHARDIIDAE Heymons, 1926

Reighardinae Heymons, 1926b: 128 (diagnosis).

Reighardiidae Heymons, 1935: 213 (diagnosis); Heymons & Vitzhum, 1935a: 23 (diagnosis); Self, 1969: 63; Almeida & Christoffersen, 1999: 702 (referred to new order Reighardiida); Poore, 2012a: 219 (spelling of name).

Hispania J. Martínez, Criado-Fornelio, Lanzarot, Fernández-García,
Rodrigues-Caabeiro & Merino, 2004

Hispania J. Martínez et al., 2004: 1103.

Type-species, by original designation: *Hispania vulturis* J. Martínez, Criado-Fornelio, Lanzarot, Fernández-García, Rodrigues-Caabeiro & Merino, 2004.

Hispania vulturis J. Martínez, Criado-Fornelio, Lanzarot, Fernández-García,
Rodrigues-Caabeiro & Merino, 2004

Hispania vulturis J. Martínez et al., 2004: 1103, figs 1-2 (type: Central Spain: Madrid: Colinda Del Cuadrón: Garganta de los Montes; in abdominal sacs of black vulture, *Aegypius monachus*).

Distr.: Spain. Primary host: black vulture.

Reighardia Ward, 1899

Reighardia Ward, 1899: 254 (erected without included species); Sambon, 1922a: 192; Heymons, 1935: 213 (diagnosis); Heymons & Vitzhum, 1935a: 23 (diagnosis); Rego, 1984a: 47 (diagnosis); Böckeler, 1986: 164 (central nervous system and body appendages); Borgesteede, 1997: 91 (genus exclusive of birds); Poore, 2012a: 219 (discussion of authorship of name and designation of type species).

Type-species, subsequent designation by Heymons & Vitzhum, 1935a: *Pentastomum sternae* Diesing, 1863.

Reighardia lomviae Dyck, 1975

Reighardia lomviae Dyck, 1975: 98, fig. (type: Denmark: Faroes: Vestmanna; from avian host, the guillemot); Møller et al., 2008: 335 (Faeroer Islands: Nólsoy; from the common guillemot, *Uria aalge*; 16S and 18S sequences).

Distr.: northern Europe. Primary host: guillemot.

Reighardia sterna (Diesing, 1864)

"Linguatula delle rondini di mare" Leuckart, 1860a: 150; Filippi, 1861: 18 (Italy: Turin; in air sacs of *Sterna hirundo*).

Pentastomum sterna *hirundinis* Diesing, 1864: 339 (type: Turin, from the tern *Sterna hirundo*).

Reighardia sterna; Vaney & Sambon, 1910: 129; Sambon, 1922a: 192 (in glaucous gull, *Larus canus* [as *glaucus*], Bonaparte's gull, *Chroicocephalus philadelphia* [as *Larus*] *philadelphia*, and common tern, *Sterna hirundo* [as *fluviatilis*]); Faust, 1927a: 318, pl. 21 figs 10-14 (China: Gulf of Peischili; nymphs in lung and hepatic portal blood of *Sterna hirundo* [as *fluviatilis*]; more recently discovered in *Larus dominicanus*, from the Neotropical region and in *Chroicocephalus* [as *Larus*] *philadelphia*, from the Nearctic region); Sprehn, 1928a: 84 (Arctic Ocean; in fish); Heymons, 1935: 213, fig. 7; Heymons & Vitzhum, 1935a: 23, fig. 16 (Greenland; in *Pagophila eburnea*, from Copenhagen Museum; Germany: near Kurische; in *Sterna paradisaea* [as *macrura*]); Dubinina & Smogorzhevskaya, 1956: 213, figs (described as nematode, *Squamofilaria*); Michelson, 1959: 335 (Latvia); Osche, 1959: 169, figs (embryology); 1963: 487, figs (anatomy); Buchvarov, 1963: 145 (in silver sea gull, *Larus argentatus*); Blazjewski, 1965: 362, figs 1-3 (embryo); Haffner & Rack, 1965: 419, figs (larva, adult); Slais, 1967: 205, fig. 1; Haffner, 1967: 1, figs (anatomy); Legendre, 1967: 341, figs 4-10 (development and morphology of larva); Riley, 1969: 6 (ultrastructure); 1972a: 307 (life cycle); 1972b: 49; 1973a: 243 (redescription); 1973c: 149, figs 1-7 (in air sacs and buccal cavity of herring gulls, *Larus argentatus*); 1976: 81 (egg production, parasite of herring gull); 1992a: 402 (sex differences); Mill & Riley, 1972: 12 (ultrastructure of body wall muscles); Bakke, 1972: 273 (Norway; in gull, *Larus canus*); Pence, 1973: 164 (USA: Louisiana; in gulls); Banaja & Riley, 1974: 75 (ultrastructure of muscle attachments); Banaja, 1975 (biology); Riley & Banaja, 1975: 33, figs 1-22 (from airsacs of the herring gull; cuticle; ecdysis); Banaja et al., 1975: 493 (direct life cycle; Scotland: Yorkshire, in herring gull); 1976: 81 (egg production and autorenfection); Riley et al., 1979: 53 (cephalic glands, possible role); Storch & Böckeler, 1979: 77 (chemoreceptor organs); 1982: 103 (sensory receptor of larva); Böckeler & Vauk-Hentzel, 1979: 95 (West Germany; in airsacs of *Larus marinus*); Böckeler, 1979: 135 (Germany: Kiel and Helgoland Island; in avian host, Laridae); 1980: 330 (developmental biology); 1982a: 1 (electron microscopy and parasitology); 1982b: 301 (ontogenesis of central nervous system); 1983a: 270 (embryology); 1983b: 264 (ontogeny); 1984a: 297 (embryology of central nervous system); 1984b: 175 (oogenesis: phylogenetic implications); 1984c: 409 (development and ultrastructure); 1984d: 374 (development in avian host, Laridae); Ooi & Ohbayashi, 1982: 112 (Japan: Hokkaido; in slaty-backed gull, *Larus schistisagus*); Hassett & McCarthy, 1983: 172 (Republic of Ireland; in avian host, *Larus*); Rego, 1984a: 47 (Brazil; in air sacs of *Larus dominicanus*); Hoberg, 1987: 1289 (Antarctica; in seabirds); Tischler, 1988: 97 (West Germany; description); G. Thomas & Böckeler, 1992b: 1 (feeding); Brosens et al., 1996: 254 (Belgium and Germany; in porpoise, *Phacoena phacoena* [as *Phacoena phacoena*], and common guillemot, *Uria aalge*); G. Thomas et al., 1999a: 280 (life cycle, comparison with *Raillietiella*); Sielfeld, 2000: 1 (Chile; in air sacs of Laridae); Röhlig et al., 2010: 140 (non-type material from near Kaliningrad, Russia, in *Sterna paradisaea*, and northern Greenland, in seagull, deposited in Museum für Naturkunde, Berlin); Poore, 2012a: 220 (*Reighardia sterna*, valid name, is in

prevailing usage, being deemed either a justified emendation or a correct original spelling).

Pentastoma laponica Mégnin "1881" (*nomen nudum*, cited in Vaney & Sambon, 1910: 139).

Pentastoma lari Mégnin, 1883: 153, pl. 7 (type: Norway: Vadsö: Lapland; in *Larus hyperboreus*; Polar Sea; in *Larus canus* [as *glaucus*]).

Porocephalus lari; Shipley, 1898: 69, fig. 14 (Polar Sea; air sacs of *Larus canus* [as *glaucus*]); Faria & Travassos, 1913a: 127 (Rio de Janeiro: Baía do Rio de Janeiro; in air sacs of gull, *Larus dominicanus*; São Paulo: Santos).

Reighardia (without species name); Ward, 1899: 254 (North America: Eriesee; in *Chroicocephalus* [as *Larus*] *philadelphia*).

Pentastomum lari; Sambon, 1922b: 404; Travassos, 1924: 239 (in *Larus dominicanus*).

Squamofilaria macroovata Serkowa, 1948 (Nematoda), *apud* Dubinina & Smogorzhevskaya, 1956: 213, figs (attributed to *Reighardia sterna*; original reference and information on type material for this name not found).

Distr.: Widespread in Palearctic region, but also found in North and South America. Primary hosts: seabirds. No intermediate host (autoinfection).

Order POROCEPHALIDA Heymons, 1935

Linguatulina Hayek, 1881: 131.

Porocephalida Heymons, 1935: 214 (diagnosis); Heymons & Vitzhum, 1935a: 25; Self, 1969: 63; Reichenbach-Klinke, 1977 (illnesses in reptiles); Rego, 1984a: 47 (diagnosis); Storch et al., 1990: 610 (comparison of ultrastructure of male genitalia with Cephalobaenida); Poore, 2012a: 220 (discussion of rank and authorship of name).

Porocephaloidea Fain, 1961: 24 (as a suborder); Nicoli, 1963: 496.

Porocephaliformis Motta, 1963a: 10 (for Porocephalidae, Linguatulidae, Sebekidae, Samboniidae and Armilliferidae).

Biology: Unidentified porocephalids and porocephaliasis in animals; Neumann, 1899: 356 (porocephalosis in dogs and other mammals); Schouten, 1930: 109 (porocephalosis in serpents); 1933: 40 (porocephalosis); Bouckaert & Fain, 1959: 793 (nymphal porocephalosis in pidgeon); Self et al., 1972: 117 (porocephaliasis in man and in experimental mice). Unidentified porocephalids and porocephaliasis in man; Sambon, 1912: 258; 1913: 98; 1918: 321 (polyccephaliasis in man); Lohlein, 1912: 58 (porocephaliasis in newborn infected in Cameroon); Mouchet, 1913: 657 (Congo; human infection); MacFie & Johnston, 1913: 1387 (southern Nigeria; five cases of porocephaliasis in man); H. Gros, 1919: 92 (West Africa; frequency of porocephalans in blacks); Noc & Nogue, 1919: 6 (porocephalosis); 1920: 284 (a new case of human porocephalosis); Noc, 1922: 621 (Senegal; massive infestation of porocephalan larvae); Pons & Noc, 1922: 951 (ganglionar porocephaliasis); Giglioli, 1927a: 33 (human porocephalosis in tropical America); Manuwa, 1928: 109 (porocephalosis); 1935: 15 (porocephalosis); 1947: 507 (porocephalosis); Mendy, 1930: 387 (Argentina: Buenos Aires; porocephaliasis, threat to public health); Peruzzi, 1932: 213 (pathological anatomy of porocephalosis); Schilling & Kuhlmann, 1937: 321 (porocephalosis); Ellis, 1937: 41 (a case of porocephalosis); Goss, 1939: 178 (snake porocephalids in man); Stock, 1946: 101 (porocephalosis, collapse of the lung); Ponthus & Boutstany, 1951: 255 (multiple calcified cysts in peritoneum due to

human porocephalosis); Wymeersch & Wanson, 1954: 517 (radiological image of nym-
phal porocephalosis); 1955: 22 (nymphal porocephalosis and its radiological image);
Woithelet, 1956: 379 (porocephalosis and radiology); Gorecki, 1958: 1516 (nymphal po-
rocephalosis); Hunter & Higgins, 1960: 68 (an unusual case of porocephalosis in man);
W.B. Anderson & Roberts, 1962a: 138 (an unusual case of porocephalosis); 1962b: 96;
Gonzalez de Vega et al., 1962: 213 (porocephalosis or pentastomiasis); Lалуque & Fillan-
deau, 1965: 258 (porocephalosis); Lindner, 1965: 155 (porocephalosis, X-ray survey);
Buchanan, 1967: 746 (surgical aspects of porocephalosis); Rail, 1967: 715 (Sabah; cases of
porocephalosis); Godeau et al., 1982: 2195 (porocephalosis); Fisch et al., 1985: 263 (hu-
man pentastomiasis or porocephalosis); Gentilini & Duflo, 1988: 628 (porocephalosis);
Ancelle et al., 1988: 437 (a case of porocephalosis in man revealed by ultrasonography);
Mulder, 1989: 1921 (porocephalosis); Obafunwa et al., 1992: 43 (sudden death by poro-
cephalosis in man); Pons & Noc, 1992: 951 (Senegal: human ganglionic porocephalosis
and tuberculosis); Faisy et al., 1995: 258 (porocephalosis, a little known parasitosis);
Itakura, 1995: 1283 (porocephalosis, diseases in the tropics); Obengui et al., 1999: 357
(porocephalosis diagnosis).

LINGUATULOIDEA Haldeman, 1851

Linguatuloidea Haldeman, 1851: 253 (as a superfamily); Leuckart, 1860a; Fain, 1961:
35 (as a suborder); Poore, 2012a: 220 (authorship of name).

Biology: Unidentified linguatulids and linguatulosis in animals; Colin, 1861a: 676
(linguatules in mesenteric ganglia of lamb); 1861b: 275 (linguatules in mesenteric gan-
glia of lamb); 1862a: 342 (linguatules in mesenteric glands); 1862b: 127 (linguatule in
mesenteric glands of dromedarian and goats); 1863b: 22 (linguatule in mesenteric
glands); Jacquart, 1866: 383 (retraction of ungui of linguatulids in lungs of serpents);
Chauvrat, 1890: 489 (taenioid linguatulids in nasal cavities of animals); Morgen, 1901:
416 (in cattle); Tartakovskii, 1901: 1049 (linguatulosis in pigs); Moussu, 1910: 153 (mor-
tal linguatulosis in goat); Velu, 1914: 137 (Marrocos; nodular linguatulosis in bulls);
Solov'ev, 1929: 29 (linguatulosis in nasal cavities of dogs); Ivanov, 1933b: 203; 1937a: 79
(Bulgaria; linguatulosis); 1937b: 445 (linguatulosis); 1938a: 157 (linguatulosis); 1938b:
291 (linguatulosis); Dikmans, 1936a: 1; 1936b: 3 (linguatulid infestation of bovine livers
and mesenteric nymph glands); Ivanov & Emanuilov, 1938: 119 (linguatulosis); Iwan-
off, 1939: 40 (Bulgaria: goat linguatulosis); Taborda-Duarte & Lino de Sousa, 1952: 14
(linguatulosis in Açorian bovines); Deschiens et al., 1954: 840 (nymphal linguatulosis in
Guinea pig); Cristi, 1957: 83 (Uruguay; nasal linguatulosis in animals); Farid-e-Toneka-
boni, 1966: 1 (linguatulosis in dog); Choudhary & Dewan, 1967: 73 (immature linguatu-
losis in a murrh buffalo); Blagburn et al., 1983: 54 (canine linguatulosis); Alsadi & Ri-
hda, 1994: 167 (nymphal linguatulosis); Tafti & Rashidi, 2000: 487 (Iran: Fars Province;
linguatulosis in goats); Tavassoli et al., 2000: 528 (Iran: West Azarbaijan: Urmia; canine
linguatulosis). Unidentified linguatuloids and linguatulosis (including halzoun disease
and marrara syndrome) in man; Küchenmeister, 1855a: 127 (linguatule parasites in liver
of man); Khouri, 1905: 78 (halzoun); Saling, 1925: 149 (linguatulids, knowledge regard-
ing hygiene); Sonobe, 1927a: 1 (linguatulid larva in men); 1927b: 753 (pentastome notch-
es in liver of man caused by linguatulid larvae); Cannon, 1942: 160 (linguatulid infesta-
tion of man); Witenberg, 1944: 191 (Near East; parasitic laryngopharyngitis, halzoun);

Chieffi, 1951: 212 (a case of human linguatulosus); Boavida, 1954: 131 (Madeira: linguatulosus); Watson & Abdel-Kerim, 1956: 147 (Middle East; parasitic pharyngitis known as "halzoun"); Kirk, 1958: 6 (Middle east; halzoun pharyngitis); Drury, 1962: 293 (linguatulid larvae causing granulomata in liver); Azar, 1964: 582 (unsuccessful trial to produce human parasitic pharyngitis, halzoun in human volunteers); Schacher et al., 1965: 226 (Lebanon; halzoun, or parasitic pharyngitis); Mendeloff, 1965: 433 (tongued worm infection, healed granulomas of liver); Chartres, 1965: 503 (radiological manifestations of tongue worms in the tropics); González, 1970: 283 (a human case of lung linguatulosus); Buslau et al., 1990: 327 (Halzoun, marrara syndrome); Molina & Cordero, 1995: 239 (linguatulid in patient with gastric adenocarcinoma); Siavashi et al., 2002: 191 (nasopharyngeal pentastomiasis, or halzoun).

LINGUATULIDAE Haldeman, 1851

Order Onchocephales Blainville, 1824: 517.

Linguatulidae Haldeman, 1851: 253 (also numbered 49); Leuckart, 1860a: 1; Stiles, 1891a: 348 (biology); Shipley, 1900: 563; Sweet, 1907: 391 (Australia); Bertolini, 1908: 385 (larvae in cattle and sheep); Braun & Lühe, 1910: 182 (parasitology); Sambon, 1910a: 134 (new species of tongue worms); 1922: 417 (genera and species of Linguatulidae); Anonymous, 1922: 389 (as parasites of man); Noc, 1923: 340 (acariform embryo and larval stages); Hett, 1924a: 109 (review); Haffner, 1926a: 201 (most closely related to Annelida); 1926b: 136; Faust, 1927b: 285 (China; nymphs of four species in man); Heymons, 1935: 244 (diagnosis); Hill, 1937: 11 (taxonomy and morphology); Yutuc, 1954: 119 (nymphal linguatulid in lungs of a domestic cat); Salman & Mahdi, 1955: 1 (Abu-Deleig; marrara syndrome); Haffner et al., 1969: 96 (anatomy, systematics, and biology); Self, 1982a: 727; Poore, 2012a: 220 (authorship of name and application of Article 24.2 (Determination by the First Reviser) in selecting Linguatulidae Haldeman, 1851 to have precedence over Linguatulida Vogt, 1851).

Linguatulida Vogt, 1851: 499 (used as a family).

Hypobothria Diesing, 1864: 200.

Pentastomidae Leunis, 1886: 620; Sambon, 1922b: 426; Manson-Bahr, 1931: 799 (tropical diseases); Doucet, 1960a: 3.

Linguatulini Sambon, 1922a: 192; Hett, 1924a: 151 (type-genus: *Linguatula* Frölich, 1789; as section).

Remarks: Blainville (1828) was the first to place the tongue-worms into a separate order or group, under the name Onchocephales (Sambon, 1922b: 425).

Linguatula Frölich, 1789

Linguatula Frölich, 1789: 148; Schrank, 1796; Siebold & Rolando, 1845: 254; Beneden, 1848b: 161 (linguatules); 1848c: 348 (organization and development); Wyman, 1861: 278; Colin, 1861a: 682 (in mesenteric glands of sheep causing malady); 1861d: 682 (in mesenteric glands of sheep, causing malady); Filippi, 1862: 52 (embryos); Lesse, 1911: 268 (larva and peritonitis); Butler, 1924: 544 (in dogs and cattle); Lameere, 1930: 146 (linguatula); Schulze, 1932: 459; Heymons, 1935: 244 (diagnosis); 1940c: 84, figs (larvae); Heymons & Vitzhum, 1935a: 95; Ivanov, 1938a: 157 (larva); Ragab & Samuel, 1955: 229

(Egypt; human infection); Enigk & Düwell, 1957: 401 (infestation in dog); Slais, 1960: 200 (history); Rego, 1980: 783 (in mammalian hosts; from Oswaldo Cruz Institute); 1984a: 49 (diagnosis); Mones & Martinez, 1982: 297 (Neotropical region; in rodent, *Hydrochoerus*); Self, 1982b: 269 (life cycle, nymphal infection and pathology); Faveaux, 1984: 1 (Ethiopian region; in Chiroptera); Doby et al., 1985: 85 (Brittany; nymph in pulmonary nodule of man); Coy et al., 1998: 8 (Cuba; in reptile, *Anolis porcatatus porcatatus* [as *Anolis porcatatus*]); Tafti et al., 2001: 213 (Iran; larva in camels); Rokni, 2008: 283 (Iran; nine cases of human pentastomiasis).

Not *Cochlus* Zeder, 1803: 230 (= *Goezia* Zader, 1800, an anisakid nematode; see Gaevskaya 2005: 26).

Prionoderma Cuvier, 1817: 35 (type-species: *Linguatula serrata*, selected by Poore, 2012a: 221, so making it an objective synonym) (not *Prioderma* Rudolphi, 1808 = *Goezia* Zader, 1800, an anisakid nematode; see Gaevskaya 2005: 26).

Pentastomum; Humboldt & Bonpland, 1818: 301; Diesing, 1836: 1856: 31; Wagner, 1856: 581 (in kidney); Küchenmeister, 1857a: 29 (metamorphosis); Spencer, 1889: 110 (parasitic in lung of the copperhead snake, *Austrelaps* [as *Hoplocephalus*] *superbus*); Weinberg, 1906: 534 (in chimpanzee); Agerth, 1907: 391 (in liver of a pig); Sambon, 1922b: 399 (many species described and figured) (*partim* = *Sebekia*); Pivetaud, 1977: 958 (parasitosis).

Pentastoma; Diesing, 1836: 1 (general account); Dujardin, 1845: 299; Beneden, 1848a: 89 (organization and development); 1848d: 71 (in mandrill); 1848e: 188 (in abdominal cavity of mandrill); 1849a: 313 (new species from abdominal cavity of mandrill); 1857a: 250 (pentastomes); Colin, 1861c: 37 (in glands of sheep); Slaughter et al., 1974: 711 (larvae in a squirrel-monkey).

Linguatule, Linguatella; Blainville, 1823: 509.

Pentastomes; Beneden, 1857a: 250; 1857b: 29.

Echinorhynchus; Welch, 1872: 703 (encysted in man) (*non Echinorhynchus* Zoega, 1776 (*Acanthocephala*)).

Fissilinguatula Heymons, 1942a: 621 (a *nomen nudum* for *L. nuttali* and *L. recurvata*).

Hololinguatula Heymons, 1942a: 621 (a *nomen nudum* for *L. dingophila* and *L. serrata*).

Type-species, by monotypy: *Linguatula serrata* Frölich, 1789: 148.

Unidentified species: *Linguatula* sp.; Dollfuss, 1959: 517, figs (Sudan: Bamako; in frugivorous bat, *Eidolon helvum helvum* [as *Eidolon helvum*]); Young, 1975: 335 (South Africa: Kruger National Park; causing pentastomiasis in wild animals).

Remarks: The genus *Prioderma* was established for a parasite discovered by Göetz in the stomach of *Silurus glanis* and later adopted by Cuvier (1817) for *Linguatula* (Sambon, 1922b: 427).

Linguatula arctica Riley, Haugerud & Nilssen, 1987

Linguatula arctica Riley et al., 1987: 710, figs 1-3 (types: northern Norway: Finnmark and Troms Districts; in nasal passages of the reindeer, *Rangifer tarandus tarandus* [as *Rangifer tarandus*]); Haugerud, 1987: 80; 1988a: 28 (human pentastomiasis); 1988b (parasite-host interaction); Halvorsen, 1986: 334; Haugerud & Nilssen, 1987: 1 (life cycle in reindeer sinus gland); Haugerud et al., 1993: 157 (ivermectin effective in killing deer-sinus pentastomid); Folstad et al., 1996: 556 (Norway; parasite infection effects on *Rangifer tarandus tarandus*); Arneberg et al., 1996: 213 (Norway; effects of food

intake in *Rangifer tarandus tarandus*); Nilssen et al., 1998: 273.

Linguatula sp.; Haugerud & Nilssen, 1985: 51 (a new species with direct development in reindeer).

Distr.: northern Norway. Primary host: reindeer.

Remarks: Species omitted from Poore's (2012a) list.

Linguatula multiannulata Haffner, Sachs & Rack, 1967

Linguatula multiannulata Haffner et al., 1967: 333, figs (East Africa; nymphs in *Connochaetes taurinus taurinus*, *Alcelaphus buselaphus cokii*, *Syncerus caffer caffer*, *Damaliscus korrigum korrigum*, adults in hyenas); 1969: 96, figs 1-30 (Serengeti: parasite of hyena, *Crocuta crocuta* [as *Crocuta crocuta crocuta*]).

Distr.: Africa. Primary host: hyena. Intermediate hosts: ungulates.

Linguatula recurvata (Diesing, 1850)

Pentastoma denticulatum; Creplin, 1829: 76 (larvae in *Hystrix (Hystrix) cristata* [as *Hystrix cristata*]); Diesing, 1836 (*partim*; larva in *Pecari tajacu tajacu* [as *Pecari tajacu*]).

Pentastomum recurvatum Diesing, 1850: 610; 1856: 31, pl. 5 figs 1-5 (types: Brazil; adults in frontal sinus and tracheae of jaguar, *Panthera onca onca* [as *Felis onca*]).

Pentastomum denticulatum; Diesing, 1850: 609 (*partim*; larva).

Linguatula recurvata; Railliet, 1883: 26; Shipley, 1898: 56, fig. 2; Faria & Travassos, 1913a: 125 (Brazil: São Paulo: Itapurá; in *Tayassu pecari pecari* [as *Dicotyles labiatus*]); 1913b: 31; Sambon, 1922a: 204 (Brazil; in frontal sinuses and trachea of jaguar, *Panthera onca onca* [as *Panthera onca*]); Heymons, 1935: 247, fig. 146 (diagnosis; larvae in *Pecari tajacu tajacu* [as *Pecari tajacu*], in heart of *Tayassu pecari pecari* [as *Tayassu pecari*], and *Callicebus (Callicebus) caligatus* [as *Callicebus caligatus*]); 1940a: 88, figs; 1942a: 621; Heymons & Vitzhum, 1935a: 98, fig. 36; Nicoli, 1963: 501 (larvae in *Tragelaphus scriptus scriptus* [as *Tragelaphus scriptus*]); Pinto, 1938: 50, figs; Rego, 1984a: 49; Arroyo et al., 1986: 157 (Costa Rica; pentastomiasis; differentiation from *L. serrata*); Röhligh et al., 2010: 140 (non-type material from "Dutch Guyana" in *Tayassu pecari pecari* [as *Tayassu pecari*] deposited in Museum für Naturkunde, Berlin).

Linguatula sp.; Strong et al., 1926: 1.

Distr.: South America. Primary host: jaguar; intermediate hosts: mammals.

Linguatula serrata Frölich, 1789

Ténia lancéolé Chabert, 1782: 39 (description); 1787: 39 (material from nose of a horse *Equus caballus caballus* [as *Equus caballus*] and dog *Canis lupus familiaris*).

Tetragulus rhinaris Chabert, 1787: 39 (no types; synonymized by Diesing, 1850).

Taenia rhinaris; Meyer, 1789 (translation of Chabert, 1787).

Linguatula serrata Frölich, 1789: 148, figs 11-15 (type: probably Germany; juvenile in hare, *Lepus (Eulagos) europaeus europaeus* [as *Lepus europaeus*]); 1791: 101; Beneden, 1855: 4; Shipley, 1898: 57, fig. 4 (synonym); Koch, 1906: 288, figs (parasitism); Agerth, 1907: 391; Johnston & Cleland, 1912: 199 (Australia; in cattle); Darling, 1912: 118 (Central America; in man); Darling & Clark, 1912a: 401 (larva in a native Central American);

1912b: 11; Faria & Travassos, 1913a: 123, pl. 11 (Brazil; larva in intestine and stools of man); 1913b: 31; Johnston, 1916: 96 (in dingo, *Canis lupus dingo* [as *Canis dingo*]); Migone, 1916: 573 (in *Chrysocyon brachyurus* [as *Canis jubatus*] and *Procyon cancrivorus cancrivorus* [as *Procyon cancrivorus*]); Thompson, 1922 (New Zealand); Sambon, 1922a: 204, figs (hosts: adults in man, *Homo sapiens*, domestic dog *Canis lupus familiaris* [as *Canis familiaris*], wolf, *Canis lupus lupus* [as *Canis lupus*], fox, *Vulpes vulpes vulpes* [as *Canis vulpes*], horse, *Equus caballus caballus* [as *Equus caballus*], ass, *Equus asinus asinus* [as *Equus asinocaballus*], sheep, *Ovis aries aries* [as *Ovis aries*], domesticated goat, *Capra hircus hircus* [as *Capra hircus*]; nymphs in man, *Homo sapiens*, long-eared hedgehog, *Hemiechinus auritus auritus* [as *Erinaceus auritus*], *Paraechinus aethiopicus aethiopicus* [as *Erinaceus aethiopicus*], cat, *Felis catus*, black rat, *Rattus rattus* [as *Mus rattus*], brown rat, *Rattus* [as *Mus*] *norvegicus*, crested porcupine, *Hystrix (Hystrix) cristata* [as *Hystrix cristata*], cavy, *Cavia porcellus* [as *cutleri*], common hare, *Lepus (Eulagos) europaeus europaeus* [as *Lepus europaeus*], common rabbit, *Oryctolagus cuniculus cuniculus* [as *Lepus cuniculus*], bull, *Bos taurus taurus* [as *Bos taurus*], pronghorn antelope, *Antilocapra americana americana* [as *Antilocapra americana*], South African blue duiker, *Philantomba monticola monticola* [as *Cephalophus monticola*], bubla antelope, *Alcelaphus buselaphus buselaphus* [as *Bubalus buselaphus*], roebuck, *Capreolus capreolus capreolus* [as *Capreolus capreolus*], European fallow-deer, *Dama dama dama* [as *Dama dama*], Arabian camel, *Camelus dromedarius*, domestic pig, *Sus scrofa scrofa* [as *Sus scrofa domesticus*], and collared peccary, *Pecari tajacu tajacu* [as *Dicotyles tajacu*]); Hett, 1924a: 152 (larvae in *Boselaphus tragocamelus*); Pillers, 1925a: 126 (in nasal cavity of bull terrier bitch); 1925b: 444 (in bovine mesenteric lymphatic glands); 1929: 307, figs (England: London; in nasal cavity of dog); Haffner, 1925: 1 (including *Pentastomum taenioides* and *Linguatula rhinaria*); Sievers, 1926: 306 (Chile); Bisset, 1926: 202 (larva in hepatic nymph glands of cow); Chapin, 1926: 180 (in the caribou); Faust, 1927a: 311 (China: Peking; in lungs of rabbit); Stiles, 1928: 61 (priority over *L. rhinaris*); Sprehn, 1928b: 854 (Arctic; in dog, *Canis lupus familiaris* [as *Canis familiaris*]); Parodi & Mazza, 1928: 642, figs; Pillars, 1929: 307 (in nasal cavity of dog); Orltepp, 1934: 113, fig. (South Africa; in a dog); Murie, 1935: 1 (Alaska; in caribou); Heymons, 1935: 245, fig. 143 (diagnosis); 1942a: 607, figs (revision; cosmopolitan; in *Canis lupus familiaris* [as *Canis familiaris*]); Pullar, 1936: 61 (Australia); Heymons & Vitzhum, 1935a: 96; Brumpt, 1936: 1101, figs; Tubangui & Masiluñgan, 1936: 399, fig. (Philippine Islands; larvae in *Bubalus bubalis bubalis* [as *Bubalus buffalus*]); Ivanov, 1933a: 157 (larvae in *Bubalus bubalis bubalis* [as *Bubalus buffalus*]); 1937a: 192 (Bulgaria; in dogs); 1937b: 79 (Bulgaria; in goats); Iwanoff, 1937: 481 (Bulgaria; distribution); Tagle, 1938: 108; Pinto, 1938: 49; Gelormini & Roveda, 1938: 3, figs (synonym); Jezhikov, 1939: 3 (morphology); Roy & Ganguly, 1940: 478 (in human); Whittick, 1943: 254, fig.; Gajardo-Tobár, 1943: 295; 1944: 354 (Chile); Marambio, 1946: 59 (in dog); Moore & Moore, 1947: 279 (USA: Alabama; parasite of cottontail rabbits); Pujatti, 1949: 18, fig. (India: Bangalore; in murid intermediary host, *Bandicota indica* [as *Nesocia bandicota*]); Symmers & Valteris 1950: 212 (human infestation by larvae); Unat & Sahin, 1950: 362 (infestation); Parenzan & Chieffi, 1951: 67 (Italy; human infestation); Gurr, 1953: 49 (New Zealand; in European rabbit, *Oryctolagus cuniculus cuniculus* [as *Oryctolagus cuniculus*]); Griffiths & Sinclair 1953: 5 (Great Britain; fox reservoir); Zukovic, 1953a: 155 (in Guinea pig, *Cavia porcellus* [as *cobaya*]); 1953b: 251; Ohbayashi & Oshima, 1954: 47 (role of intermediate host in linguatulosis; nymph in new host, the dog, *Canis lupus familiaris* [as *Canis familiaris*]); Sinclair, 1954: 371 (Great Britain;

life cycle); Yamashita & Ohbayashi, 1954: 146 (tongue worm in dog body); Luque-Foreiro, 1957: 595 (Colombia: nymphs); Seidel, 1957: 153 (Indonesia); Tobie et al., 1957: 628 (infestation in patient with acute leukemia); Lucas et al., 1957: 159, figs (France: Lièvre; Haute Savoie; mortal pulmonary infestation in man); Self & Kuntz, 1957: 195 (Sudan: Upper Egypt: Qena Province: Wadi Nassim, in pleural cavity of Egyptian hare, *Lepus capensis capensis* [as *Lepus capensis*]; Giza: Giza Province; nymph in liver of spiny mouse, *Acomys (Acomys) cahirinus* [as *Acomys cahirinus*]); Taborda-Duarte & Borges-Ferreira, 1957: 149 (nymphs in autoctonous bovids); Symmers, 1957: 549 (eosinophilous prostatitis by larvae); Papadakis & Hourmonziadis, 1958: 454 (human infestation); Buljevic & Rendic, 1958: 544; Papadakis, 1958: 307 (human infestation); G. Castellani, 1958: 505 (mesenteric effects of parasitism in buffalo); Besh, 1959: 544 (USA: north central Oklahoma; nymph in *Sylvilagus (Sylvilagus) floridanus floridanus* [as *Sylvilagus floridanus*]); Vaidova & Feizullaev, 1959: 423 (Azerbaijan; first case of nymphs in birds); Gast-Galvis, 1960: 15, fig. (Colombia; in liver of girl); Paramanathan, 1960: 93 (Ceylon: Colombo; nymphal stages in goats); Alvarez, 1960: 22, figs 1-2 (Chile; nymphs from rodents, *Octodon degus* [as *Octodon degus degus*], and *Abrocoma bennettii bennettii* [as *Abrocoma benetti*], and canid, *Lycalopex culpaeus culpaeus* [as *Dusucion culpaeus*]; adult in fox); Corroler & Pierre, 1960: 730, figs (Marrocos; linguatulosis, nymphs in lungs of humans); Todenhofer & Jacob, 1961: 237; Zumpt, 1961: 362 (Africa: Ethiopian region); Sweatman, 1962: 23 (New Zealand; in brown hare); Drury, 1962: 289 (larval granulomata in the liver of a dog); Deweese et al., 1962: 587 (tongue worm in anterior chamber of human eye); Rendtorff et al., 1962: 762 (within human eye); Slais, 1963: 163, figs (larva in liver of man); 1967: 207, fig. 2 (Latvia); Broberg & Ghafghasi, 1964: 846 (abdominal changes in sheep); Lapage, 1965 (veterinary helminthology); Khalil & Schacher, 1965: 736, figs (Lebanon: halzoun and marara syndrome); Schacher & Biagi, 1966: 279, figs (Mexico; in goat); Gill et al., 1968: 506 (in domestic animals); Haffner & Rack (in Haffner et al.), 1969: 123, figs 31-32 (Serengeti; in *Connochaetes taurinus taurinus*, *Damaliscus korrigum korrigum*, *Alcelaphus buselaphus cokii*, and *Syncerus caffer caffer*); Schacher et al., 1969: 854 (Lebanon: nymphs from two patients, halzoun); Khalil, 1970: 485 (Egypt: cairo; infection in mongrel dogs); 1972: 363 (Egypt; parasiting humans and animals; review of parasitology); 1973: 288 (Egypt: El-Dakhla oasis; from mongrel dogs); 1976: 126 (Egypt: Cairo; infection in animals); Khalidi, 1972: 159 (life cycle); Rahman & Soliman, 1971: 65 (India: Bangladesh; in street dogs); S.P. Singh et al., 1973: 181 (infestation in goat); Fain, 1975: 60 (review in man); Muraleedharan & Zaki, 1975: 430 (developmental stages in cattle); Krishna et al., 1975: 317 (larval infection in goats); Sherkov & Rabie, 1976: 89 (Jordan; in domestic animals); Rizzo, 1977: 313 (Italy; human infestation by nymphs); Elbadawi et al., 1978: 171 (Sudan; nymph in goat, *Capra hircus hircus* [as *Capra hircus*]); Moreno Montañez et al., 1979: 383 (Spain; in hare, *Lepus* (? *Eulagos*) *granatensis granatensis* [as *Lepus capensis granatensis*]); Latrive et al., 1980: 567 (liver abscess and visceral linguatulosis); Valero Lopez et al., 1980: 565 (Spain: Granada; linguatulosis in goat, *Capra hircus hircus* [as *Capra hircus*]); Andrews et al., 1980: 395 (southeastern USA; in cottontail rabbits, *Sylvilagus (Sylvilagus) floridanus floridanus* [as *Sylvilagus floridanus*]); S. G. Vargas et al., 1980: 75 (Costa Rica: human parasitism); Zakarian, 1981: 35 (intracranial in a dog, *Canis lupus familiaris* [as *Canis familiaris*]); Graber, 1981a: 155 (Congo Republic; in dog, *Canis lupus familiaris* [as *Canis familiaris*]); Mumcuoglu & Ruflı, 1981: 1923 (human hosts); Ehrenford & Newberne, 1981: 74 (USA; in dogs, *Canis lupus familiaris* [as

Canis familiaris]); Blake & Overend, 1982: 111 (Australia: northeastern Victoria; in urban pound dogs, *Canis lupus familiaris* [as *Canis familiaris*]); Rehbinder & Nordkvist, 1982: 45 (Sweden: in reindeer); Dinçer, 1982: 324 (Turkey: Elazing kennel; nymphal stages in stray dogs, cattle, sheep, and black goats); Velásquez et al., 1982: 76 (Costa Rica: in dogs); Banaja, 1983: 271 (larvae from abdominal cavity of goat; scanning electron microscopy of regions of body); Rego, 1984a: 49, pl. 3 fig. 1 (adults in nasopharyngeal cavity of carnivores, mainly canids; larvae from many mammals including man; cosmopolitan species); Gardiner et al., 1984: 187 (USA: Michigan; hepatic granuloma, nymphs in woman); El-Sherry & Sakla, 1984: 123 (Egypt; in goat, *Capra hircus hircus* [as *Capra hircus*]); Riley et al., 1985: 49 (Australia: Victoria: head of Dart River, in nasal sinus of *Canis lupus familiaris* [as *Canis familiaris dingo*]; New South Wales: Snowy Plains; in lung of *Oryctolagus cuniculus cuniculus* [as *Oryctolagus cuniculus*]; Serdyukov & Marchenko, 1985: 6 (Russian SFSR: Altai; in sheeps, *Ovis aries aries* [as *Ovis aries*]; imaginal form, parasite morphology and biometrics; description); Arroyo et al., 1986: 157, fig. 1 (Costa Rica: San Pedro-Montes de Oca; nymphs in man, *Didelphis marsupialis marsupialis* [as *Didelphis marsupialis*], and *Oryctolagus cuniculus cuniculus* [as *Oryctolagus cuniculus*]; pentastomiasis; meristics, differentiation); Rokiki, 1987: 145 (Poland); Martinez-Gomez et al., 1987: 347 (Spain; in the hare, *Lepus* (? *Eulagos*) *granatensis granatensis* [as *Lepus granatensis granatensis*]); Pandey et al., 1987: 53 (Morocco: Rabat; in stray dogs, *Canis lupus familiaris* [as *Canis familiaris*]); Nsengwa & Otaru, 1987: 81 (Tanzania; infection in hunting dogs, *Canis lupus familiaris* [as *Canis familiaris*]); Tasan, 1987: 86; Tischler, 1988: 97 (West Germany); El-Refaii & Michael, 1988: 353 (Egypt; larvae in sheep and goats); J.K. Baird et al., 1988: 198 (North America; nymph causing hepatic granuloma in man); El-Hassan et al., 1991: 309 (marrara syndrome, nymphs from patient and viscera of goats); Oryan et al., 1993: 290 (Iran: Fars Province; causing pathology in visceral organs of camel, *Camelus*); Valenzuela et al., 1995: 29 (Chile: Valdivia; nymph infection in cattle livers); Akyol et al., 1995: 267 (Turkey: Bursa; infection in stray dogs; importance to public health); Yagi et al., 1996: 127 (Sudan: Khartoun: Wad Hisouma, between Blue Nile and Atbara rivers; marrara syndrome, nymphs in upper respiratory tracts); Sane-cal et al., 1996: 3555 (human subretinal invasion); Saiyari et al., 1996: 312 (Iran: nymphs in lungs of goat); Montazeri et al., 1997 (Iran: Tabriz; in humans); Wahba et al., 1997: 153 (Egypt; in camel, *Camelus dromedarius*); Aydenizoz, M. & Guclu, 1997: 75 (Turkey: Konya Province); Sadjadi et al., 1998: 193 (southern Iran: Shiraz; human pharynx); Ganzorig et al., 1998: 74 (Mongolia: Tov Province: Onjuul County; nymphs from rodent, *Meriones (Pallasiomys) unguiculatus* [as *Meriones unguiculatus*]); Z.S. Li et al., 1998: 238 (China; human infection); Rezaee, 1998 (Iran: Shiraz; in goats and dogs); Alcaino & Gorma, 1999: 7 (Chile; larva in domestic animals: goat, *Capra hircus hircus* [as *Capra hircus*], sheep, *Ovis aries aries* [as *Ovis aries*], dog, *Canis lupus familiaris* [as *Canis (Canis) familiaris*], and rabbit, *Oryctolagus cuniculus domesticus*); Panaiotova et al., 1999: 57 (karyotype, clinical symptoms of disease, first time described; nymph morphology; in *Canis lupus familiaris* [as *Canis familiaris*]); Morsy et al., 1999: 787 (Egypt; human nasopharyngeal linguatulosis); Lazo et al., 1999: 405 (Ecuador; larvae causing ocular linguatulosis); Sielfeld, 2000: 1 (central Chile; in nasal sinus of domestic dog); Sergiev et al., 2000: 53 (Russia; life cycle in mammalian hosts); Gorokhov et al., 2000: 7 (Russia; pentastomiasis in human, mammalian, and reptilian hosts); Bowman, 2000 (nasal mucosa and sinuses of dog and cat); Esmail-Nia et al., 2000: 94 (Mazandaran Prov: Babol abbattoir; in small ruminants);

Maleky, 2001: 439 (central Iran: Tehra; in human throat); Pampiglioni et al., 2001: 105 (Italy; in pulmonary nodular lesion of man); Moghadam et al., 2001 (Iran: Kashan; human infestation); Tavassoli et al., 2001: 4 (experimental infection and life cycle in dogs); 2007: 73 (Iran: Urmia; nymphs in lymph nodes in sheeps); Tenquist & Charleston, 2001: 507 (New Zealand; in dog); Shekarforoush & Arzani, 2001: 57 (Iran: Shahrekord; nymphs in liver of sheep, goats and cattle); Kolte et al., 2002: 195 (India: Maharashtra; in dog, *Canis lupus familiaris* [as *Canis familiaris*]); Hes & Vrabec, 2002: 60 (in *Bitis gabonica*); Ma et al., 2002: 166 (China; pentastomiasis); Meshgi & Asgarian, 2003: 466 (Iran: Shahreford; infestation in stray dogs); Razavi et al., 2004: 213 (Iran: Shiraz; nymphs in goats); Shekarforousch et al., 2004a: 67; 2004b: 99 (Iran: Shiraz; nymphs in sheep); Hidalgo Toledo, 2004: 11, 2 figs (Chile: Nueva Imperial; larvae in liver of bull, *Bos taurus taurus* [as *Bos taurus*]); Mir et al., 2004: 23 (India: Kashmir; in a cow); 2009: 301, figs 1-7 (India: Kashmir: Shuhama; third instar nymphs causing visceral linguatulosis and paratuberculosis in alpine cross goat, *Capra hircus hircus* [as *Capra hircus*]); Vrhovec et al., 2005: 779 (Austria and Germany; infestation in imported dogs from Turkey and Italy); Sivakumar et al., 2005: 506 (North India; nymphs in water buffaloes, *Bubalus bubalis bubalis* [as *Bubalus bubalis*]); Tappe et al., 2006: 1034 (Germany; human visceral linguatulosis); Tajik et al., 2007: 69 (Iran; nymphs in slaughtered camels); 2008: 174 (Iran: Urmia; nymphs in river buffaloes); Gurler & Dogamy, 2007: 105 (Turkey: Ankara; in digestive and respiratory systems of rabbits); Pourjafar et al., 2007: 171 (Iran: Najafabad; nymphs in camel, *Camelus dromedarius*); Alcalá-Canto et al., 2007: 1011 (Mexico: Mexico City; demonstration of serine proteinase activation of larval stage; in sheep livers); Miclaus et al., 2008: 1385 (immature stages infecting mesenteric lymph nodes of adult sheep); Esmaeilzadeh et al., 2008: 387 (nymph in a cat); Mohammadi et al., 2008: 53 (Iran: Tehran; third nymphal stage causing nasopharyngeal linguatulosis in man); Shakerian et al., 2008: 243 (Iran: Urmia: Najaf-Abad; nymphs in one-humped camel, *Camelus dromedarius*); Ravindran et al., 2008: 808 (south India: Kerala State: Wayanad; nymphs in domestic ruminants: goats, cattle, and buffaloes); Haddadzadeh et al., 2009: 59 (Iran: Tabriz; nymph in lung of two-humped camel, *Camelus bactrianus bactrianus* [as *Camelus bactrianus*]); Gicik et al., 2009: 135 (Turkey: Kars Province; in intestine of fox, *Vulpes vulpes vulpes* [as *Vulpes vulpes*]); Tappe & Büttner, 2009: 1 (human visceral pentastomiasis caused by nymphs); Hami et al., 2009: 25 (Iran: Azarbaijan-e-Sharghi Province; nymphs causing linguatulosis in domestic bovids); Sangwan et al., 2009: 83 (India: Haryana: Kamal; nymphs in mesentery and blood vessels of goats); Soriano et al., 2010: 81 (Argentina: Patagonia: Neuquén; in dogs); Fard et al., 2010, 2011 (Iran: Kerman; nymphs in mesenteric lymph nodes of goats); Haddadzadeh et al., 2010: 54 (Iran: Tabriz, in mesenteric lymph nodes of camel, *Camelus dromedarius*); Röhlig et al., 2010: 140, fig. 4c (non-type material, including Ceylon and Saudi Arabia, and including the host *Oryx beisa beisa* [as *Oryx beisa*], deposited in Museum für Naturkunde, Berlin); Radfar et al., 2011: 139 (Iran: nymphs in lymph nodes of camel); Koeshsler et al., 2011: 870 (Austria, in human eye); Vatsya et al., 2011: 249 (India: Uttarakhand: Pantnagar; in small ruminants); Yakhchali & Tehrani, 2011: 396 (Iran: nymphs in mesenteric lymph nodes of sheep); Khalafalla 2011 (Egypt: Nile delta, in cats); Oryan et al., 2011: 1225 (Iran: Yazd Province; nymphs in lymph nodes causing linguatulosis in camel); Rezaei et al., 2011: 561 (Iran: infection in dog definitive hosts and ruminant intermediate hosts); Pal et al., 2011: 442 (case of human intraocular pentastomiasis in India); Poore, 2012a: 221-222 (list

of synonyms and discussion of priority of *L. serrata* over other names. Application of ICZN Article 24.2 to select *Linguatula serrata* over *Taenia capraea* Abildgaard, 1789).

Taenia capraea Abildgaard, 1789: 52, pl. 108, fig. 64 (type: Denmark or Norway; juvenile in *Capra hircus hircus* [as *Capra hircus*]).

Linguatula integerrima Frölich, 1791: 104 (listed in Baird, 1853a: 41, but with no indication of type material).

Taenia caprina Gmelin, 1791: 3069 (type: no locality given, from the goat *Capra hircus hircus* [as *Capra hircus*]); 1800: 3069 (juvenile).

Polystoma serratum; Zeder, 1800; Goeze, 1800: 317 (juvenile); 1803: 270 (larva).

Taenia lanceolata Pilger, 1803: 1284; Rudolphi, 1805: 41 (types: bibliographic reference to a 2-page description of 'Ténia lancéolé, a French vernacular name by Chabert (1787: 39); material from nose of a horse *Equus caballus caballus* [as *Equus caballus*] and dog *Canis lupus familiaris*).

Halysis caprina; Zeder, 1803: 372 (juvenile).

Taenia rhinaria; Pilger, 1803: 1285.

Cochlus rhinarius; Rudolphi, 1808: 318.

Linguatula denticulata Rudolphi, 1805: 42 (juvenile; unnecessary replacement name for *Taenia capraea*, see Rudolphi (1809: 447); Leuckart, 1858a: 566; 1858b: 48 (as young form of *P. taenioides*); Tessé, 1913: 147 (ganglia in bovids); Bugge, 1927b: 345 (in a dog).

Prionoderma rhinarium; Rudolphi, 1808: 637; 1810: 432.

Polystoma denticulatum; Rudolphi, 1809: 447, pl. 12 (juvenile).

Pentastoma denticulatum; Rudolphi, 1809 (juvenile); Diesing, 1836 (*partim*; larvae in *Hystrix (Hystrix) cristata* [as *Hystrix cristata*]; p.p. = *Linguatula recurvata*); Dujardin, 1845: 304 (France: Paris; in lung of Guinea pig, *Cavia porcellus* [as *cobaya*]; Denmark; in mouth of *Capra hircus hircus* [as *Capra hircus*]; Sweden: Lund; in *Antilocapra americana americana* [as *Capra americana*]; Germany; in lung of bull and crested porcupine, *Hystrix (Hystrix) cristata* [as *Hystrix cristata*]; Greifswald, in liver of cat *Felix catus*); Kauffmann, 1847: pl. 1 (larvae in *Oryctolagus cuniculus cuniculus* [as *Lepus cuniculus*]); Beneden, 1857b: 29 (Egypt: Cairo; in man); Leuckart, 1857a: 30; 1860a: 1860b: 222; Cobbold, 1861a: 125 (in *Bubalus bubalis bubalis* [as *Antilope bubalis*] and *Philantomba monticola monticola* [as *Cephalophus pygmaeus*]); 1862: 350, pl. 33 fig. 6 (larvae in *Philantomba monticola monticola* [as *Cephalophus caeruleus*]); Loukin, 1878: 389; Babes, 1889: 1 (in cattle); Buri, 1912a: 16 (in cattle, causing pentastomiasis); 1913: 585 (in cattle); 1912b: 22; Sagredo, 1924: 608 (larva in human lung); Behn 1938: 39 (Chile: Concepción, larvae in human corpses).

Pentastoma taenioides; Rudolphi, 1809: 123; 1819; Bremser, 1824: pl. 10, figs 14-16; Miram, 1835: 623, pl. 46 (anatomy); 1836: 135, pl. 8 (anatomy); Diesing, 1836: 16, pl. 2 figs 1, 2, 14-16, 20, pl. 3 figs 1-5; Leuckart, 1857a: 30; 1857b: 444; 1857c: 48; 1857d: 25; 1860a: 1860b: 241; McCall, 1892a: 168; 1892b: 503; Tutt, 1913: 124 (two cases).

Pentastoma emarginatum Rudolphi, 1809: 124 (juvenile); 1819: 433 (type: no locality given, from Guinea pig *Cavia porcellus*).

Polystoma taenioides Rudolphi, 1809: 441 (types: no locality given; from the sinus of a horse *Equus caballus* and dog *Canis lupus familiaris*).

Tetragulus caviae Bosc, 1811: 269, pl. 2 fig. 1 (type: no locality given; juvenile in *Cavia porcellus*).

Linguatula taenioides; Lamarck, 1816; Haan, 1821: 290; Miram, 1835: 623; Owen, 1835: 325, pl. 41; 1837 (anatomy); McCall, 1892a: 168; 1892b: 503 (in a collie dog; also so-called

Pentastoma taenioides); Flook, 1907: 648 (in the dog); Gaiger, 1909: 528; Roe, 1922.

Prionoderma; Cuvier, 1817: 35.

Pentastoma taenioides; B.A. Grevé, 1818: 184 (diseases in domestic animals; adult in *Equus asinus asinus* [as *Equus asino-caballus*]).

Pentastomum serratum; Rudolphi, 1819: 14.

Pentastome taenioides; Colin, 1824 (worms in nasal cavities of dogs); 1861a: 676 (larvae in mesenteric gland of sheep, *Ovis aries aries* [as *Ovis aries*], producing verminous malaide); 1861b: 275 (in dog; believed to have been transformed from linguatule from the mesenteric ganglia of sheep); 1861d: 682; 1862a: 342 (larvae in mesenteric glands); 1863a: 721 (in nasal cavity of dog); 1863b: 22; 1864: 108 (pentastome in nasal cavity of dog); Gellé, 1877a: 545 (in the ear of a dog); 1877b: 539 (in dog).

Linguatula lanceolata; Blainville, 1828: 531; Gomez, 1945: 104 (Spain).

Linguatula caviae; Blainville, 1828: 531.

Pentastoma fera Creplin, 1829: 76 (type: no locality given; juvenile in *Felis catus* [as *Felis domesticus*]).

Worm [sine nomine]; Rhind, 1830: 29 (adult in front sinus of sheep, *Ovis aries aries* [as *Ovis aries*]).

Pentastomum taenioides; Miram, 1835: 623; 1836: 135; Diesing, 1850; Schubärt, 1853: 117 (development); Beneden, 1857b: 29 (Egypt: Cairo; in man); Leuckart, 1857a: 30; 1857e: 163; 1857f: 250; 1859a: 182 (development); 1860c: 78 (parasites of man); Weinland, 1860: 17 (in antelope, *Bubalus bubalis bubalis* [as *Antilope bubalis*]); Bruckmüller, 1869 (larvae in *Capra hircus hircus* [as *Capra hircus*]); Laudon, 1878: 730 (in man); Landois, 1886: 17; Kulagin, 1895: 499 (in intestine); Tutt, 1913: 124 (two cases); Plum, 1925: 509; Cave et al., 1998: 19.

Holyseris; Waldheim, 1840: 139.

Monostoma settinii Numan, 1840: 390 (type: no locality given; from horse *Equus caballus caballus* [as *Equus caballus*]).

Pentastoma taenioides; Dick, 1840: 71 (= misprint for *P. taenioides*) (apud Sambon, 1922b: 426).

Polystoma taenioides; Nördmann, 1840 (misprint for *P. taenioides*).

Pentastome taenioides; Dujardin, 1845: 303 (France: Paris, Toulouse; dogs and pharynx of a wolf, *Canis lupus lupus* [as *Canis lupus*]).

Linguatula ferox; G. Gros, 1849: 549 (juvenile); Beneden, 1854: 380 (on Küchenmeister's observations); 1855: 4; Küchenmeister, 1855b: 21 (also known as *Pentastoma denticulatum* or *P. serratum*); 1855c: 4.

Pentastomum denticulatum; p.p. Diesing, 1850: 609 (juvenile; p.p. = *Linguatula recurvata*); Zenker, 1854: 212, pl. 8 figs 1-2 (new animal parasite in man); 1856: 581 (in kidney); 1860: 192; 1862: 478 (in milk); Wagner, 1856: 581 (in the kidney); 1862: 478 (in dolphin); Küchenmeister, 1857b: 777 (juvenile in *Dama dama dama* [as *Dama dama*]); Leuckart, 1857a: 30 (as the young stage of *P. taenioides*); 1857b: 444; 1857c: 48; 1857d: 25; 1857e: 163; 1857f: 250; 1857g: 163; 1857h: 4 (transformation of one form into another); 1858a: 566; 1858b: 48; 1858c: 78; 1859a: 182; 1859b: 320 (young of *P. taenioides*); 1860a: 53 (parasites in man); 1860b: 222; Wedl, 1861: 225 (Egypt; larvae in insectiver, *Hemiechinus auritus auritus* [as *Erinaceus auritus*]); Gerlach, 1869: 73 (from goats); Senner, 1870; Bochefontaine, 1877: 261 (in lung of Guinea pig); Csokor, 1887: 1 (in liver of lemurs; larvae in *Equus caballus caballus* [as *Equus caballus*]); Babes, 1889: 1 (larvae in *Capreolus capreolus*).

capreolus [as *Capreolus capreolus*], and *Bos taurus taurus* [as *Bos taurus*]]; Ratz, 1892a: 305; 1892b: 329; Ströse, 1898: 1 (in liver of pig, *Sus scrofa scrofa* [as *Sus domesticus*]); Kulagin, 1898: 489 (adult in *Bos taurus taurus* [as *Bos taurus*]); Bogdaschew, 1930: 252 (SSR; in mesenterial knots of goat; histology); 1931: 401 (in mesenterial lymph knot of sea gull); Laengner, 1906: 368 (parasite in man); Johnston & Cleland, 1910: 315 (Australia: New South Wales; in cattle); Schlegel, 1911a: 207; 1911b: 91 (massive invasion in cattle); Lurje, 1929: 193; Saupe, 1930: 401 (parasites in spleen); Straub, 1936: 1468 (Amsterdam; in man); Behn, 1938: 39 (Chile; larvae in nodules of autopsies); Jezhikov, 1939: 3; 1940: 263 (morphology).

Pentastomum ferox; Küchenmeister, 1855c: 4; Beneden, 1857a: 250.

Linguatula senata Küchenmeister, 1857a: 29 (misprint for *L. serrata*).

Pentastomum cephalopi pygmaei Cobbold, 1861b: 349; Diesing, 1864: 328 (type: bibliographic reference to description by Cobbold, 1862, p. 357 of material from the Cape guevi *Philantomba monticola monticola* [as *Cephalophus pygmaeus*]).

non *Pentastomum denticulatum*; Cobbold, 1861a: 117 (= *Neolingulata nuttalli*).

Linguatule taenioides; Tisserant, 1870: 50 (cause of death of a dog); Chauvrat, 1890: 489 (in nasal cavities of dog).

Pentastomum ténioide; B.A. Grevé, 1877 (in ear of dog).

Pentastome denticulé; Bochefontaine, 1877: 261 (in lung of guinea pig).

Linguatule denticullee; Railliet, 1884: 81 (larvae in surmulot, the brown Norwegian rat, *Rattus norvegicus*).

Linguatula rhinaria; Railliet, 1886: 308; 1900: 199 (in dog); Stiles, 1895: 1163 (USA); Koch, 1906: 288, 2 pls (in *Procopra gutturosa* [as *Gazella gutturosa*] and *Gazella subgutturosa subgutturosa* [as *Gazella yarkandensis*]; larvae in *Mus (Mus) musculus musculus* [as *Mus musculus*]); 1912: 381 (parasitism; also known as *Pentastomum taenioides*); S.V. Rátz, 1910: 137 (Hungary); 1913: 400 (Hungary; parasitism); Austin & Carpenter, 1914: 56 (larva in human feces); Schornagel, 1921: 154 (Netherlands; in a dog); Sagredo, 1924: 608 (as larva of *Pentastomum denticulatum* in humans); 1928: 314 (larva in humans); Sysak & Bykow, 1930: 114 (pathology); Carnevallini, 1931: 71; Schmitt & Pohlmann, 1935: 435 (larva in goat); Galli-Valerio, 1936: 577 (in dog); Hobmaier & Hobmaier, 1940: 199 (life cycle in *Canis lupus lupus* [as *Canis lupus*] and *Vulpes vulpes vulpes* [as *Canis vulpes*]).

Linguatula denticulatum; Neumann, 1888: 491.

Taenia lanceolatum; Neumann, 1888: 491.

Linguatula caprina; R. Blanchard, 1890: 425.

Linguatula rhinaris; Moniez, 1891: 160.

Pentastoma tenioide; Bertolini, 1892: 352 (in sheep).

Echinorhynchus caprae; Braun, 1908 (juvenile).

Linguatula dingophila Johnson, 1910: 248 (types: Australia, from the dingo, *Canis lupus dingo*); 1916 (suggested synonym of *Linguatula serrata*); Heymons, 1932a: 420, fig. (Australia; in wild dog, *Canis lupus dingo* [as *Canis dingo*]); 1935: 246, fig. 144 (diagnosis); 1942a: 621 (Australia, in dingo; East India, in European dog); Heymons & Vitzhum, 1935a: 97 (distribution: East Africa, in pharynx of lion, *Panthera leo leo* [as *Felis leo*]); Riley et al., 1985 (suggested synonym of *Linguatula serrata*); Poore & Spratt, 2011 (suggested synonym of *Linguatula serrata*); Poore, 2012a: 221 (synonymized with *L. serrata*).

Linguatula tanoides; Gaiger, 1911: 634.

Linguatula rhinaris; Stiles, 1927: 61.

Linguatula cerata; Garedaghi et al., 2011 (larvae in sheep lungs in Iran) (misspelling of *serrata*).

Unidentified species: *Linguatula* sp.; Self & Kuntz, 1957: 195 (Egypt: West desert Governate; near El Ammya; nymph in hedgehog, *Hemiechinus auritus auritus* [as *Hemiechinus auritus*]).

Distr.: Cosmopolitan. Primary and intermediate hosts: mammals, including man.

Remarks: The subspecies *Linguatula serrata serengetiana* Haffner & Rack (in Haffner, Rack & Sachs), 1969 permits the usage of subspecies *Linguatula serrata serrata* Frölich, 1789 for the present nominal species after 1969.

Linguatula serrata serengetiana Haffner & Rack (in Haffner, Rack & Sachs), 1969

Linguatula serrata var. *serengetiana* Haffner & Rack (in Haffner et al.), 1969: 123, figs 33-36 (Africa: Serengeti; in wild dogs, *Lycan pictus lupinus*, and *Canis mesomelas schmidtii* [as *Thos mesomelas elongae*]); Sachs et al., 1973: 401 (Africa: in *Canis mesomelas mesomelas* [as *Canis mesomelas*], *Canis adustus adustus* [as *Canis adustus*], and *Canis lupus familiaris* [as *Canis domesticus*]).

Distr.: Africa. Primary hosts: dogs.

Remarks: Omitted from Poore's (2012a) list.

Neolinguatula Haffner (in Haffner, Rack & Sachs), 1969

Fissilinguatula Heymons, 1942a: 621 (for *Linguatula nuttalli*).

Neolinguatula Haffner (in Haffner, Rack & Sachs), 1969: 138; Riley, 1986: 63 (synonymized with *Linguatula*).

Type-species, by original designation: *Linguatula nuttalli* Sambon, 1922.

Remarks: Although Riley (1986) synonymized *Neolinguatula* with *Linguatula*, the former genus has continued to be used after this date (Horak et al., 1988, 1992; cf. Poore, 2012a: 221). Furthermore, at least one diagnostic character provided for *Neolinguatula* by Haffner et al. (1969) has been interpreted above (see item clades of Pentastomida) as a potential apomorphy distinguishing this genus from *Linguatula*. The two genera are nevertheless closely related.

Neolinguatula nuttalli (Sambon, 1922)

Pentastomum denticulatum; Cobbold, 1861a: 124 (lungs and intestine of bubale, *Bubalus bubalis bubalis* [as *Antilope bubalis*], some encysted beneath pleura, and from abdominal cavity of Cape guevi, *Philantomba monticola monticola* [as *Cephalophus pygmaeus*]); Heymons, 1935: 247, fig. 145 (diagnosis).

Linguatula nuttalli Sambon, 1922b: 414, fig. 22 (types: East Africa: Magadi [now Kajiado River, Kenya]; in *Panthera leo leo* [as *Felis leo*]); Heymons, 1935: 247, fig. 145; 1942a: 621 (British East Africa; in antelope, *Philantomba monticola monticola* [as *Cephalophus caeruleus*], and a lion); Heymons & Vitzthum, 1935a: 97; Poore, 2012a: 221.

Neolinguatula nuttalli; Haffner et al., 1969: 130, figs 37-49 (Serengeti; in leopard, *Panthera pardus pardus* [as *Felis pardus*]); Haffner, 1972: 235 (musculature of larvae); Sachs et al., 1973: 401 (Africa; in *Panthera pardus pardus* [as *Panthera pardus*]); Graber, 1981b: 25

(Central African Republic; in primate, "*Cebus defassa*"); Horak et al., 1983: 243 (South Africa: Transvaal; in mammal, blue wildbeast, *Connochaetes taurinus taurinus* [as *Connochaetes taurinus*]); 1988: 145 (South Africa: Transvaal: Lowveld; in warthog mammal, *Phacochoerus aethiopicus aethiopicus* [as *Phacochoerus aethiopicus*]); 1992: 259 (South Africa: eastern Transvaal and Cape Province; in mammal, *Tragelaphus strepsiceros strepsiceros* [as *Tragelaphus strepsiceros*]).

Distr.: East Africa. Primary and intermediate hosts: mammals.

SUBTRIQUETRIDAE Fain, 1961

Subtriquetridae Fain, 1961: 27 (attributed to the Porocephalida); Motta, 1963a: 9; Nicoli, 1963: 498.

Subtriquetra Sambon, 1922

Subtriquetra Sambon, 1922a: 205 (attributed to Linguatulini; for *Linguatula subtriquetra* and *L. megacephala*); Heymons, 1935: 248 (diagnosis); Heymons & Vitzhum, 1935a: 100; Fain, 1961: 1; M. Vargas V., 1974: 1021 (biology and taxonomy); Rego, 1984a: 50 (diagnosis); Junker et al., 1998a: 159 (diagnosis); Junker & Boomker, 2006: 32 (diagnosis).

Type-species, by original designation: *Pentastoma subtriqueta* Diesing, 1836.

Subtriquetra megacephalum (Baird, 1853)

Pentastoma megacephalum W. Baird, 1853a: 39 (types: India; flesh in head of *Crocodylus palustris*); 1853b: 21.

Porocephalus megacephalus; Shipley, 1898: 70, fig. 15; Hett, 1921: 164.

Subtriquetra megacephala; Sambon, 1922a: 205, figs (India: Sunderbunds, in muggar or Indian marsh crocodile, *Crocodylus palustris*; Bengal: Hugli river in *Crocodylus palustris*, *Crocodylus porosus*, or Sangor crocodile, *Gavialis gangeticus*?); Huchzermeyer, 2003: 207 (in *Crocodylus palustris*); Junker & Boomker, 2006: 32 (catalogue) (species revalidated).

Pentastomum megacephalum; Hett, 1924a: 107.

Diesingia (?) *megacephala*; Heymons, 1935: 227, fig. 134 (diagnosis; as *Diesingia megacephala*).

Subtriquetra megacephalum; Poore, 2012a: 232 (the specific name *megacephalum* would appear to be a noun and its ending does not require to be changed to *megacephala* as appears in recent literature).

Distr.: India. Primary hosts: crocodiles.

Subtriquetra rileyi Junker, Boomker & Booyse, 1998

Subtriqueta rileyi Junker et al., 1998a: 162, figs 1-2 (types: South Africa: Transvaal: Kruger National Park: Phabeni Dam, infective larvae in cichlid fish, *Tilapia rendalli* [as *Tilapia rendalli swierstrae*], and *Oreochromis mossambicus*); Huchzermeyer, 2003: 207 (in *Crocodylus niloticus niloticus* [as *Crocodylus niloticus*]); Junker & Boomker, 2006: 27 (infective stages in Nile crocodiles as final hosts, recovered from fish; catalogue); Luus-Powell

et al., 2008: 323 (South Africa: Limpopo Province: Phalaborwa Barrage and Ga-Selati River; larvae in swim bladder of cichlid fish *Oreochromis mossambicus*).

Distr.: South Africa. Primary host: Nile crocodiles. Intermediate hosts: freshwater fishes.

Subtriquetra shipleyi Hett, 1924

Linguatula subtriqueta; Shipley, 1910: 275.

Subtriquetra shipleyi Hett, 1924a: 153 (types from the Indian Museum, Calcutta: ? India: Calcutta, in crocodiles, *Crocodylus palustris*, *Crocodylus porosus*, and pharynx of Indian crocodile, *Gavialis gangeticus*?); Heymons, 1935: 249, fig. 2 (diagnosis); Heymons & Vitzhum, 1935a: 103 (distribution); Huchzermeyer, 2003: 207 (in trachea of undetermined crocodile from India); Junker & Boomker, 2006: 33 (catalogue).

Distr.: India. Primary host: crocodile.

Subtriquetra subtriquetra (Diesing, 1836)

Pentastoma proboscideum; Bremser, 1824: pl. 10, figs 19-21 (*partim*; in crocodile, *Caiman crocodilus* [as *Champsia sclerops*]).

Pentastoma subtriquetum Diesing, 1836: 17, pl. 3 figs 6-8 (type: no locality given; from *Caiman crocodilus* [as *sclerops*]); Dujardin, 1845: 306 (in caiman, *Caiman crocodilus* [as *Crocodylus sclerops*], from Museum of Vienna).

Pentastomum subtriquetrum; Diesing, 1850: 609.

Pentastomum pusillum Diesing, 1856: 31, pl. 5 figs 6-8 (type: Brazil: Mato Grosso: Augusto; in intestine of fish, *Aequidens tetramerus* [as *Acara cascudo*]).

Linguatula subtriquetra; Railliet, 1883: 26; Shipley, 1898: 56, fig. 3 (in throat of cayman, *Caiman crocodilus* [as *Crocodylus sclerops*]); Faria & Travassos, 1913a: 126 (Brazil: Rio de Janeiro: Iguassú river; in *Caiman crocodilus* [as *sclerops*]).

Not *Linguatula subtriqueta*; Shipley, 1910: 275 (= *Subtriquetra shipleyi* Hett, 1924a).

Subtriquetra subtriquetra; Sambon, 1922a: 205 (Argentina; Brazil; in mouth cavity of common caiman, *Caiman crocodilus*) and from black caiman, *Melanosuchus niger*; nymphs in intestine of the tropical fish, *Aequidens tetramerus* [as *Acara cascudo*]); Travassos & Pereira, 1928: 5 (Brazil: Mato Grosso: São João, larvae in swimming bladder of *Pygocentrus piraya*); Heymons, 1935: 248 (diagnosis; Brazil; young in fishes, *Aequidens tetramerus*, and *Pygocentrus piraya*); Heymons & Vitzhum, 1935a: 101 (distribution: South America; in two species of crocodiles; young in fish); M. Vargas V., 1971: 137 (Costa Rica); 1975: 67, figs 1-6 (Costa Rica; adults in crocodile, *Caiman crocodilus*; larvae in fish, *Amatitlania nigrofasciata* [as *Cichlasoma nigrofasciatum*], *Priapichthys annectens*, and *Poecilia* [as "lebistes"] spp.; life cycle); Rego, 1984a: 50, pl. 2 fig. 8, pl. 4 figs 6, 7 (adults in nasal fossae of crocodiles, *Caiman crocodilus*, and *Melanosuchus niger*; larvae in fish *Aequidens tetramerus*, *Pygocentrus piraya* and *Hoplias malabaricus*); Winch & Riley, 1986a: 81, figs 1-3 (Trinidad; larva in crocodile, *Caiman crocodilus*; development in fish, *Poecilia*, *Tilapia*, and *Xiphophorus maculatus*); Salgado-Maldonado et al., 1997: 195 (Mexico; in cichlid fish, *Paraneetroplus synspilus* [as *Cichlasoma synspilum*], and *Cichlasoma urophthalmus*); Huchzermeyer, 2003: 207 (in *Caiman crocodilus* and *Melanosuchus niger*).

Pentastoma gracile; Travassos & Pereira, 1928: 5 (juveniles in fish, *Pygocentrus piraya* [as "*Serrasalmo piranha*"]).

Cephalobaena subtriquetra subtriquetra; Heymons, 1935: figs

Distr.: Americas. Primary host: crocodilians; intermediate hosts: freshwater fishes.

POROCEPHALOIDEA Sambon, 1922

Porocephalinae Sambon, 1922a: 190 (erected as a subfamily of the Linguatulidae). Porocephaloidea; Almeida & Christoffersen, 1999: 702 (for Sebekidae and Porocephalidae).

SEBEKIDAE Sambon, 1922

Sebekidae Sambon, 1922; Self, 1982a: 192 (erected as a section of the Porocephalinae, subfamily Linguatulidae); Self & Rego, 1985: 33 (revision); Riley & Huchzermeyer, 1995a: 151 (systematics); Poore, 2012a: 229 (using the prevailing usage over the more correctly derived and the recently used Sebekidae).

Sebekinae; Heymons, 1935: 215 (diagnosis); Heymons & Vitzhum, 1935a: 38 (diagnosis); Self & Rego, 1985: 33 (revision).

Sambonidae Heymons; 1941a: 317; Self, 1982a: 727; Poore, 2012a: 227 (maintaining the prevailing usage rather than the more correctly derived Samboniidae).

Diesingiidae; Rego, 1983b: 237.

Sebekiidae; Martin & Davis, 2001: 60; Ahyong et al., 2011: 168.

LEIPERIINAE, new subfamily

Diagnostic apomorphies: hooks bifurcate in larvae, with single lamina in adult; females with spirally coiled abdomen, with comparatively large radius coils; parasites in the crocodilian tracheae, with an obligatory phase in circulatory system (Rego, 1984; Riley & Huchzermeyer, 1996; Junker et al., 2000).

Remarks: Although the new subfamily-level taxon is created to contain only the type-genus *Leiperia*, it is a phylogenetically informative clade, being the sister-group to all the remaining subfamilies of the Sebekidae (Samboninae, Diesingiinae, and Sebekinae). From a phylogenetic perspective, *Leiperia* is a redundant, uninformative phylogenetic name available for the same clade as Leiperiinae, although the names of genera are required under the present rules of taxonomy.

Leiperia Sambon, 1922

Leiperia Sambon, 1922a: 195 (of Sebekini, for *R. cinnamalis*); Heymons, 1935: 217 (diagnosis); 1940b: 84, figs (larvae); Heymons & Vitzhum, 1935a: 43; Rego, 1980: 783 (mammalian hosts; from Oswaldo Cruz Institute); 1984a: 49 (diagnosis); Riley & Huchzermeyer, 1996: 60 (males, first time described); Junker et al., 2000: 29; Junker & Boomker, 2006: 30 (diagnosis).

Type-species, by original designation: *Reighardia cinnamalis* Sambon (in Vaney & Sambon), 1910.

Leiperia australiensis Riley & Huchzermeyer, 1996

Leiperia australiensis Riley & Huchzermeyer, 1996: 60, figs 1, 3a-d, 4a-d (types: Australia: Queensland, in pulmonary artery of *Crocodylus johnsoni*; Northern Territory: Wildman River Station; Noonamah Crocodile Farm, near Darwin; in tracheae of *Crocodylus porosus*; Adelaide River: Kerlin Station, in lung of *Crocodylus porosus*; Gregory National Park: Bullita Station; Kakadu National Park: Yellow Waters, nymph in lung of *Crocodylus porosus*); Huchzermeyer, 2003: 207 (in *Crocodylus porosus* and *Crocodylus johnsoni*); Junker & Boomker, 2006: 30 (catalogue).

Distr.: Australia. Primary and intermediate hosts: crocodiles.

Leiperia cincinnalis Sambon (in Vaney & Sambon) 1910

Reighardia cincinnalis Sambon (in Vaney & Sambon), 1910: 139 (type: Uganda: Victoria Nile: Murchison Falls: Fajao, females in the Nile crocodile, *Crocodylus niloticus niloticus* [as *Crocodylus niloticus*]).

Leiperia cincinnalis; Beauchamp, 1914: 109 (Democratic Republic of the Congo: in fish intermediate host, *Mastacembelus*); Cunnnngton, 1920: 571 (Africa; in fishes); Sambon, 1922a: 196, figs (Zimbabwe; in the heart of *Crocodylus niloticus niloticus* [as *Crocodylus niloticus*]); Hett, 1924a: 107 (larva in fish, *Chrysichthys brachynema* and *Lates microlepis*); Southwell & Pillers, 1929: 130 (Upper Nile: nymph in muscle of *Oreochromis niloticus niloticus* [as *Tilapia nilotica*]); Rodhain & Vuylsteke, 1932: 1 (Democratic Republic of the Congo: Albertville and Leopoldville, in the bronchi and aorta of *Crocodylus niloticus niloticus* [as *Crocodylus niloticus*]); Heymons, 1935: 218, fig. 125; 1940b: 78, figs 1-3 (larvae); 1941b: 263, fig. (Democratic Republic of the Congo: Luapula, Kilwa and Chibambo; larva in chichlid fish, *Chrysichthys mabusi*, and in characid fish, *Alestes macrophthalmus*); Heymons & Vitzhum, 1935a: 43, fig. 24 (distribution: Africa, in Nile crocodile, *Crocodylus niloticus suchus* [as *Crocodylus vulgaris*]; young stages in latid fish, *Oreochromis niloticus niloticus* [as *Lates niloticus*]); Devos, 1939: 193 (Chibambo: Luapala; in tracheae of *Crocodylus niloticus niloticus* [as *Crocodylus niloticus*]); Fain, 1961: 52, figs (Central Africa; infective larvae in *Mecistops* [as *Crocodylus*] *cataphractus* and fish, *Bathybates ferox*, *Alestes macrophthalmus*, *Chrysichthys brachynema*, *C. mabusi*, *Lates microlepis*, *L. niloticus*, *Mastacembelus* sp., and *Oreochromis niloticus niloticus* [as *Tilapia nilotica*]); 1975: 60 (nymph in human faeces); Graber, 1981a: 155 (Zaire: Lubumbashi; Congo Republic; in reptilian, *Cycloderma aubryi*); Riley & Huchzermeyer, 1996: 58, figs 1-2a-h (Malawi: Uppershire, nymphs in crocodile; South Africa, in body cavity of fish, *Sargochromis giardi* [as *Pelamatochromis robustus*]; Nyasaland; Rhodesia; Democratic Republic of the Congo: Katanga); Junker et al. 1998a: 159 (South Africa; in piscean, *Oreochromis mossambicus*); 1999: 66 (South Africa: Kruger National Park: Shimuwini Dam; in crocodile, *Crocodylus niloticus niloticus* [as *Crocodylus niloticus*]); 2000: 33, figs 1-3 (South Africa: Kruger National Park; in Nile crocodile, *Crocodylus niloticus niloticus* [as *Crocodylus niloticus*]; male first time described; female redescribed); Junker, 2002: xii (South Africa; in intermediate host, *Serranochromis meridianus*); Huchzermeyer, 2003: 207 (in *Crocodylus niloticus niloticus* [as *Crocodylus niloticus*]); Junker & Boomker, 2006: 29 (catalogue); Luus-Paulus et al., 2008: 328 (in central Africa; in Nile tilapia, *Oreochromis nilotica*); Röhlig et al., 2010: 148, fig. 5e (non-type material deposited in Museum für Naturkunde, Berlin).

Porocephalus nematoides Beauchamp, 1918: 19, fig. 20 (type: Democratic Republic of the Congo: Lake Tanganyika: Kilewa Bay; juvenile in digestive tract of *Mastacembelus* sp.).

? *Leiperia cincinnalis*; Hett, 1924a: 161, fig. (Lake Tanganika, larval forms in fishes, *Chrysichthys brachynema* and *Lates microlepis*).

Distr.: Africa. Primary hosts: crocodiles and turtles. Intermediate hosts: freshwater fish, and man.

Leiperia gracilis (Diesing, 1836)

Pentastomum gracile Diesing, 1836: 23, pl. 4 figs 19-23 (types: Brazil: Mato Grosso: Cuiabá: Caiçara: Vila Maria; larvae in fishes, *Astronotus* [as *Acara*] *crassipinnis*, *Sciades herzbergii* [as *Bagrus mesops* and *Bagrus pemecus*], "*Clupea tobarana*", *Salminus brasiliensis* [as *Hydrocyon brevidens*], *Cichla* [as *Lobotes*] *monoculus*, *Hoplias malabaricus* [as *Macrodon trahira*], *Pellona castelnaeana*, *Pinirampus* [as *Pimelodus*] *pirarampu*, *Pseudoplatystoma* [as *Platystoma*] *tigrinum*, *Phractocephalus hemioliophterus* [as *Pirarara bicolor*], *Salminus brasiliensis* [as *Salmo auratus*], *Pristobrycon aureus* [as *Salmo erythrophthalmus*], *Salmo salar*, *Rhaphiodon vulpinus* [as *Salmo tamuco*], *Pygocentrus piraya* [as "*Serrasalmo piranha*"], *Hemisorubim platyrhynchos* [as *Silurus gerupoca*], *Zungaro* [as *Silurus*] *jahu*, *Pseudoplatystoma fasciatum* [as *Silurus fasciatus*], *Pimelodus ornatus* [as *Silurus megacephalus*], "*Silurus pintado*", *Brachyplatystoma filamentosum* [as "*Silurus piratinga*"], "*Silurus (Pimelodus) vituga*", in reptiles, "*Podinema nattereri*", and *Tupinambis teguixin*, and in mustelid, *Pteronura brasiliensis brasiliensis* [as *Lutra brasiliensis*]) (p.p. = *Porocephalus stilesi*); p.p. Diesing, 1850: 23 (p.p. = *Sebekia oxycephalum*); Leidy, 1856: 42; Parona, 1887: 69; Roveda, 1948: 47, figs 1-4 (Argentina: Entre Rios Province: Parana river; in muscles of surubim fish, *Pseudoplatystoma* sp.); Self & Rego, 1985: 39, fig. 6 (redescription).

Pentastomum gracilis; Leidy, 1856: 42 (North America; in *Alligator mississippiensis*); Dujardin, 1845: 308 (Brazil; in reptiles *Tupinambis teguixin* [as *Podinema teguixin*], *Bothropoides* [as *Bothrops*] *jararaca*, *Eunectes murinus* [as *scytale*], "*Podinema*" sp. n., *Elaps* sp. n., "*Pseuderys*" sp. n., *Tropidonotus* sp. n., *Coluber* sp. n., and fish *Pygocentrus piraya* [as "*Serrasalmo piranha*"], *Hoplias malabaricus* [as *Erythrinus trahira*], *Silurus*, *Phractocephalus hemioliophterus* [as *Pirarara bicolor*], *Pinirampus pirinampu* [as *Pimelodes pirirampus*], *Apteronotus* [as *Sternarchus*] *albifrons*, "*Clupea tobarana*", *Potamotrygon* [as *Raia*] *motoro*, *Cichla* [as *Lobotes*] *monoculus* and *Synbranchus*); Parona, 1887: 72, pl. 3 figs 5-8 (Argentina: Plata; in *Hoplias malabaricus* [as *Macrodon trahira*]).

Pentastoma gracilis; Parona, 1887: 72, figs 5-8 (Argentina: Plata river, nymph in body cavity of symbranchid fish, *Hoplias malabaricus* [as *Macrodon trahira*]); Pearse, 1920: 1 (Venezuela: Lake Valencia; in fish); Sambon, 1922b: 424 (in symbranchid fish, *Synbranchus marmoratus*, and gymnotid fish, *Electrophorus* [as *Gymnotus*] *electricus*); Travassos & Pereira, 1928: 5 (in fish, *Astyanax mexicanus*); Heymons, 1941b: 256 (Belgian Congo: Luapala, Kilwa and Chibambo; larva in cichlid fish, *Chrysichthys mabusi*; larva in characid fish, *Alestes macrophthalmus*); Devos, 1939: 194, fig. (Luapula: between Kilwa and Chibambo; in peritoneum or external wall of cloaca of fish, *Alestes macrophthalmus*, *Chrysichthys mabusi*; considered a larval form of *Leiperia cincinnalis*); Roveda, 1948: 47, figs (Argentina: Paraná river: Entre Rios Province; in fish, *Pseudoplatystoma* sp.).

Porocephalus gracilis; Shipley, 1898: 67, fig. 12 (Brazil; in fish); Wheeler, 1915: 207

(*partim*); Pearse, 1920 (in fish, *Aequidens pulcher*).

Reighardia gracile; Sambon (in Vaney & Sambon), 1910a: 139.

Porocephalus crocodili Wheeler, 1915: 207 (*partim*; type: Ecuador; in lungs of American crocodile, *Crocodylus acutus* [as *americanus*]; synonymized by Heymons & Vitzhum, 1935a and in part by Junker & Boomker, 2006; also a possible synonym of *Sebekia oxyccephalum* (Diesing, 1836)).

Pentastoma gracile; Sambon, 1922b: 401, figs 15-16; Heymons, 1935: 249, fig. 147 (as *incertae sedis*); Heymons & Vitzhum, 1935a: 33 (p.p. = *Sebekia oxyccephalum*); Sandon, 1951: 60 (a human parasite); Self & Rego, 1985: 40 (suggested synonym of *Leiperia cincinnalis*).

Leiperia neotropica Heymons & Vitzhum, 1935a: 153, figs (types from Berlin Museum: Ecuador: Guayaquil river; nymphs in fish, *Gobioides peruanus*; synonymised by Heymons & Vitzhum, 1935a).

Leiperia gracilis; Heymons, 1935: 219 (South America; in *Crocodylus acutus*; Brazil, in *Caiman crocodilus*); 1940b: 83; 1941b: 256 (Amazon; larva in fish *Arapaima gigas*; from British Museum, London); Heymons & Vitzhum, 1935a: 32, figs 17, 23 (distribution: America; larvae in a silurid fish, "*Silurus mamaiacu*"; young in fish; adults in crocodiles *Caiman crocodilus* [as *sclerops*], and *Crocodylus acutus* [as *americanus*]); Motta, 1964: 63, figs (female larva in tracheae of South American crocodile *Caiman crocodilus* [as *sclerops*], and larvae encysted in intestinal wall of fish *Salminus brasiliensis* [as *brevidens*]); Motta & Gomes, 1968b: 125 (evolutionary cycle); 1968c: 67, figs 1-4 (Brazil: State of Espírito Santo: Macuco Lake; larva in fish *Hoplias malabaricus*; Deakins, 1971: 1197 (USA, in *Alligator mississippiensis*); Hazen et al., 1978: 435 (USA, in *Alligator mississippiensis*); Rego, 1984a: 49, pl. 2 fig. 5 (adults in heart and aorta of crocodiles, *Crocodylus acutus* [as *americanus*], and *Caiman crocodilus*; larvae in fish, amphibians, serpents and chelonians: *Pseudoplatystoma fasciatum*, *Pseudoplatystoma* sp., *Hemisorubim platyrhynchus*, *Pimelodus ornatus*, *Zungaro zungaro* [as *Paulicea luetkeni*], *Phractocephalus hemioliopterus*, *Brachyplatystoma filamentosum*, *Pinirampus pirinampu* [as *Pinirampus pinirampus*], *Hoplias malabaricus*, *Gobioides peruanus*, *Brachyplatystoma filamentosum* [as "*Silurus piraiba*"], "*Silurus mamaiacu*", "*Piraniiu*" sp., *Salminus brasiliensis* [as *Salmo auratus* and *Salminus brevidens*], *Potamotrygon motoro*, *Culuber* sp., *Testudo* sp., in marine fish, *Cichla* [as *Lobotes*] *monoculus*, and in bird, *Ardea cocoï*); Riley & Huchzermeyer, 1996: 63 (as *species inquirenda*); Junker & Boomker, 2006: 30 (catalogue); Röhlig et al., 2010: 148 (non-type material, including juvenile from host *Gobioides broussonnetii*, deposited in Museum für Naturkunde, Berlin); Poore, 2012a: 231 (valid species; synonymy).

Leiperia gracile; Rego et al., 1987: 865, figs 1-3 (Brazil: in alligator, *Caiman crocodilus*); Rego & Eiras, 1989: 591 (description); Riley & Huchzermeyer, 1996: 63 (*species inquirenda*); Scott et al., 1997: 258 (USA: Texas; in reptilian, *Alligator mississippiensis*); Luus-Paulus et al., 2008: 328 (in Gulf killfish, *Fundulus grandis*, bluegill, *Lepomis macrochirus*, Atlantic croaker, *Micropogonias undulatus*, and largemouth bass).

Distr.: Southern USA, South America, and Africa. Primary hosts: alligators, snakes, and lizard. Intermediate hosts: freshwater and marine fishes, amphibians, serpents, chelonians, a bird and small mammals.

Remarks: Because it is generally agreed that Diesing's material contained more than one species, it would be appropriate to select a lectotype, if syntypes still exist, or a neotype, if they don't, especially as other junior available names compete. The same applies to *Porocephalus crocodili* Wheeler, 1915, in order to fix the synonymies.

SAMBONINAE Heymons, 1935

Samboninae Heymons, 1935: 222 (as a subfamily of the Porocephalidae); 1941a: 317 (revised); Heymons & Vitzhum, 1935a: 49.

Sambonidae; Heymons, 1941: 317; Fain, 1961: 28; Martin & Davis, 2001: 60.

Sambonia Noc & Giglioli, 1922

Sambonia Noc & Giglioli, 1922: 279; Sambon, 1922b: 428; Heymons, 1935: 223 (diagnosis); Heymons & Vitzhum, 1935a: 49; Self & Kuntz, 1966b: 256 (new synonym, *Megadrepánoides*); Almeida & Christoffersen, 1999: 701 (referred to Sebekidae from Sambonidae).

Megadrepánoides Self & Kuntz, 1957: 196 (type-species: *Megadrepánoides solomonensis* Self & Kuntz, 1957; synonymized by Self & Kuntz, 1966).

Type-species, by monotypy: *Reighardia lohrmanni* Sambon (in Vaney & Sambon), 1910 [as *Sambonia lohrmanni*].

Unidentified species: *Sambonia* sp; Flach et al., 2000: 91 (United Kingdom: England; pentastomiasis of undescribed species in monitor lizard, *Varanus exanthematicus*, imported from West Africa).

Sambonia clavata (Lohrmann, 1889)

Not *Pentastomum clavatum*; Leuckart, 1860a (= *Porocephalus clavatus* Wyman, 1845).

Pentastomum clavatum Lohrmann, 1889: 336 (types: Egypt; in lungs of *Varanus niloticus*).

Porocephalus clavatus; Shipley, 1898: 63, fig. 9 (in monitor, *Varanus exanthematicus* [as *ocellatus*]); 1910: 275 (in *Varanus exanthematicus*); Haffner, 1927: 361, figs; Heymons, 1935: figs; Pinto, 1938: 50, figs; Berghe, 1939: 39, figs (Not *Porocephalus clavatus* (Wyman, 1845)).

Reighardia lohrmanni Sambon (in Vaney & Sambon), 1910a: 138 (unnecessary replacement name for *Pentastomum clavatum* Lohrmann, 1889).

Sebekia (?) lohrmanni; Sambon, 1922a: 194 (in the lungs of the Egyptian monitor, *Varanus niloticus*, of the ocellated monitor, *Varanus exanthematicus* [as *ocellatus*], and of the common teguixin, *Tupinambis teguixin*).

Sambonia lohrmanni; Noc & Giglioli, 1922: 277, fig. (Senegal: Dakar; in Nilotic monitor, *Varanus niloticus*); Sambon, 1922b: 393, figs 4-6; Heymons, 1926a: 45 (in gecko, *Varanus salvator salvator* [as *Varanus salvator*]); 1932a: 427, fig. 10; 1935: 223, fig. 30; 1939: 681, figs; 1941a: 319, fig. (Kamerun: in lung of varan, *Varanus niloticus*; revised); Heymons & Vitzhum, 1935a: 50; Self & Kuntz, 1957: 196 (Sudan: Bahr El Ghazal Province: Tonj District; in Nile monitor lizard, *Varanus niloticus* [as *nilotica*]; British Solomon Islands: Florida Island, in snake, *Acrochordus granulatus*); Fain & Mortelmans, 1960: 518, fig. 2 (evolutionary cycle in varanid); Fain, 1961: 55, figs (Sonde Arquipelago: Flores Island: Komodo; in *Varanus komodoensis*); Riley, 1992a: 402 (sex differences).

Sambonia clavata; Poore, 2012a: 228 (correct name); Röhlrig et al., 2010: 149 (non-type material deposited in Museum für Naturkunde, Berlin).

Distr.: Africa, Flores and Solomon Islands. Primary hosts: monitor lizards.

Sambonia parapodum Self & Kuntz, 1966

Sambonia parapodum Self & Kuntz, 1966b: 257, figs 1-6 (type: female; Philippine Islands: Puerto Princesa: Palawan; in lung of *Varanus salvator salvator* [as *Varanus salvator*]); Riley, 1992a: 402, fig. 1c (sex differences).

Distr.: Philippines. Primary host: monitor lizard.

Sambonia solomonensis (Self & Kuntz, 1957)

Megadrepnoides solomonensis Self & Kuntz, 1957: 196, figs 1, 2, 5, 6 (types: Solomon Islands: Florida Island; in lung of *Varanus indicus*).

Distr.: Solomon Islands. Primary host: monitor lizard.

Sambonia varani (Self & Kuntz, 1957)

Megadrepnoides varani Self & Kuntz, 1957: 197, figs 3, 4, 7, 8 (types: Solomon Island: Florida Island; in lung of *Varanus indicus*).

Distr.: Solomon Islands. Primary host: monitor lizard.

Sambonia wardi Sambon (in Vaney & Sambon), 1910, *species inquirenda*

Pentastoma proboscideum; Diesing, 1836: pl. 4 figs 1-10 (*partim*).

Pentastomum proboscideum; Diesing, 1850: 609 (*partim*).

Porocephalus crotali; Shipley, 1898: 52 (*partim*).

Porocephalus wardi Sambon (in Vaney & Sambon), 1910: 137 (type: Uruguay; in lizard *Tupinambis teguixin*; bibliographic reference to material figured and misidentified as *Pentastoma proboscideum* by Diesing, 1836, pl. 4 figs 1-10); Rego, 1984a: 50 (*species inquirenda*, probably a species of *Sebekia*); Poore, 2012a: 227 (listed as a valid species of *Porocephalus*).

Sambonia wardi; Sambon, 1922: 417 (in snakes, *Boa constrictor*, *Bothropoides* [as *Bothrops*] *jararaca*, *Crotalus horridus*, *Eunectes murinus*, *Xenodon merremii* [as *Ophis merrimi*], and *Spilotes pullatus pullatus* [as *Spilotes pullatus*]); Heymons, 1935: 223 (diagnosis; doubtful species); Heymons & Vitzhum, 1935a: 51 (list of hosts).

Distr.: Uruguay. Primary hosts: lizards and snakes.

DIESINGIINAE Heymons, 1935

Diesingiinae Heymons, 1935: 224 (diagnosis); Heymons & Vitzhum, 1935a: 52. Diesingidae; Martin & Davis, 2001: 60.

Type-genus: *Diesingia* Sambon, 1922.

Diesingia Sambon, 1922

Diesingia Sambon, 1922b: 397; Heymons, 1935: 225 (diagnosis); Heymons & Vitzhum, 1935a: 53; Rego, 1983b: 237 (*Butantanella* as new synonym; *Diesingia* designated as type for new family Diesingiidae); 1984a: 49 (diagnosis); Self & Rego, 1985: 39 (status); Junker et al., 2003: 211 (diagnosis); Junker & Boomker, 2006: 32 (diagnosis).

Butantanella Fonseca & Ruiz, 1956: 471 (type-species, by original designation: *Pentastoma megastomum* Diesing, 1836).

Type-species, by monotypy: *Porocephalus kachugensis* Shipley, 1910.

Unidentified species: *Diesingia* sp.; Self & Kuntz, 1957: 196 (South Pacific: Florida Islands and Solomon Islands; in Pacific boa, *Candoia carinata* [as *Engyrus carinatus*]).

Diesingia kachugensis (Shipley, 1910)

Porocephalus kachugensis Shipley, 1910: 276, pl. 20 (type: India and Burma; in turtle, *Batagur kachuga* [as *Kachuga lineata*]); Hett, 1921: 164 (India: Calcutta; young in liver of mud-turtles, *Batagur kachuga* [as *Kachuga lineata*], and *Batagur baska* [as *basca*]); Sambon, 1922b: 397, fig. 9.

Diesingia kachugensis; Sambon, 1922a: 192; Heymons, 1935: 226, fig. 133 (diagnosis); Heymons & Vitzhum, 1935a: 54.

Distr.: India, Burma. Intermediate hosts: turtles.

Diesingia megastomum (Diesing, 1836)

Pentastoma megastomum Diesing, 1836: 23, pl. 4 figs 14-18 (type in Wien Museum: no locality given; in lung of side-necked turtle, *Phrynops geoffroanus*); Sambon, 1922b: 397.

Pentastomum megastomum; Dujardin, 1845: 306; Leuckart, 1860a: 1.

Porocephalus megastomus; Shipley, 1898: 71, fig. 16.

Diesingia megastoma; Sambon, 1922a: 193 (Brazil); Heymons, 1935: 226, figs; 1941b: 330, figs (revised); Heymons & Vitzhum, 1935a: 56; Rego, 1983b: 237 (in aquatic turtles, *Phrynops geoffroanus* [as *Hydraspis geoffroyana*], and *Hydromedusa tectifera*); 1984a: 49, pl. 2 figs 6, 7, pl. 4 fig. 5; Self & Rego, 1985: 39 (referred to *Sebekia*); Junker et al., 2003: 212; Junker & Boomker, 2006: 32 (catalogue).

Pentastoma (*Diesingia*?) *megastoma*; Sambon, 1922b: 397 (in mud-turtles, *Batagur kachuga* [as *Kachuga lineata*]).

Pentastoma megacephalum; Hett, 1924a: 153 (females in head of *Crocodylus palustris*).

Sebekia megastoma; Travassos, 1924: 239; Self & Rego, 1985: 39, fig. 4 (transferred from *Diesingia*; Brazil; redescribed).

Sebekia crocodili; Heymons & Vitzhum, 1935b: 155, fig. (Berlin Aquarium; in lungs of *Crocodylus acutus* [as *americanus*]).

Butantanella megastoma; Fonseca & Ruiz, 1956: 471, figs (Brazil: Paraná State: Tranqueira; in lungs of snake-necked turtle, *Hydromedusa tectifera*, from Instituto Butantã).

Diesingia megastomum; Poore, 2012a: 230 (the specific name appears to be a noun and its ending does not require to be changed to *megastoma*).

Distr.: Brazil. Primary hosts: snakes, turtles, and crocodiles.

Alofia Giglioli (in Sambon), 1922

Alofia Giglioli (in Sambon), 1922: 194; Heymons, 1935: 219 (diagnosis); 1942b: 419, figs (revision); Heymons & Vitzhum, 1935a: 46; Fain, 1961; Rego, 1984a: 49 (diagnosis); Riley et al., 1990: 24 (removal from synonymy with *Sebekia*); Riley, 1994: 23; Junker & Boomker, 2006: 28 (diagnosis).

Type-species, by original designation: *Alofia ginae* Giglioli in Sambon, 1922.

Unidentified species: *Alofia* sp.; Foster et al., 1998: 62 (southeast Florida; in soft-shell turtle *Apalone ferox*); Luus-Powell et al., 2008: 323 (South Africa: Limpopo Province: Phalaborwa Barrage; larvae in swim bladder of cichlid fish *Oreochromis mossambicus*).

Alofia adriatica Hirst, 1922, *species inquirenda*

Alofia adriatica Hirst, 1922: 289 (type: Adriatic; host unknown); Giglioli (in Sambon), 1922: 393, figs; Heymons, 1935: 221, fig. 128 (diagnosis); 1942a: 423 (Adriatic fish); Heymons & Vitzhum, 1935a: 46 (distribution: Adriatic Sea, in fish); Junker & Boomker, 2006: 28 (diagnosis; as *species inquirenda*); Poore, 2012a: 229 (comment on identity).

Distr.: Adriatic sea. Intermediate host in marine fish?

Alofia ginae Giglioli (in Sambon), 1922

Alofia ginae Giglioli (in Sambon), 1922: 194, figs (types: Samoa; "probably from some fish"); Giglioli, 1922a: 371, figs 1-5; Heymons, 1932a: 429 (Samoa; in *Crocodylus*); 1935: 220, fig. 126; 1942b: 419, fig. 1; Heymons & Vitzhum, 1935a: 46 (distribution); Riley, 1994: 33, fig. 5f (Philippines: Davao: Santa Cruz, in bronchioles of marine crocodile, *Crocodylus porosus*); Huchzermeyer, 2003: 207 (in *Crocodylus porosus*); Junker & Boomker, 2006: 29 (catalogue).

Distr.: Philippines. Primary host: crocodile.

Alofia indica (Linstow, 1906), *species inquirenda*

Porocephalus indicus Linstow, 1906: 270, pl. 3 figs 6-10 (type: India: Calcutta, in lungs and tracheae of *Gavialis gangeticus*); Sambon, 1922b: 406, fig.; Maskey et al., 1998: 291 (Nepal; in juvenile reptilian host, *Gavialis gangeticus*).

Reighardia indica; Sambon (in Vaney & Sambon), 1910a: 139.

Sebekia indica; Sambon, 1922: 406.

Alofia indica; Hett, 1924a: 140, fig. 10; Heymons, 1935: 221, fig. 127; 1942a: 423; Heymons & Vitzhum, 1935a: 48 (distribution; type in Indian Museum of Calcutta); Maskey et al., 1998: 291 (disastrous intestinal infection in captive gharial hatchlings); Huchzermeyer, 2003: 207 (in *Gavialis gangeticus*); Junker & Boomker, 2006: 29 (catalogue, as *species inquirenda*).

Distr.: India. Primary and intermediate hosts: crocodiles.

Alofia merkii Giglioli (in Sambon), 1922

Alofia (?) *merkii* Giglioli (in Sambon), 1922: 195 (type: Samoa: in unknown host); Heymons, 1932a: 429 (Samoa; in *Crocodylus*); 1935: 220 (diagnosis); Heymons & Vitzhum, 1935a: 46 (distribution); Self & Rego, 1985: 35 (as synonym of *A. platycephalum*); Riley, 1994: 33, figs 6, 7a-e, 8a-d (Australia: Northern Territory; Philippines; both in bronchioles of marine crocodile *Crocodylus porosus*); Huchzermeyer, 2003: 207 (in *Crocodylus porosus*); Junker & Boomker, 2006: 29 (catalogue; species revalidated).

Sebekia merkii; Heymons, 1942a: 429 (as *species inquirenda*).

Distr.: Southern Pacific. Primary host: crocodile.

Alofia nilotici Riley & Huchzermeyer, 1995

Alofia nilotici Riley & Huchzermeyer, 1995b: 232, fig. 6a-d (types: Botswana: Okavango swamps, host *Crocodylus niloticus niloticus* [as *Crocodylus niloticus*]); Junker et al., 1999: 67 (South Africa: Kruger National Park, in crocodile, *Crocodylus niloticus niloticus* [as *Crocodylus niloticus*]); Huchzermeyer, 2003: 207 (in *Crocodylus niloticus niloticus* [as *Crocodylus niloticus*]); Junker & Boomker, 2006: 28 (catalogue).

Distr.: Southern Africa. Primary host: crocodile.

Alofia parva Riley & Huchzenmeyer, 1995

Alofia parva Riley & Huchzenmeyer, 1995a: 155, figs (types: Republic of the Congo: Congo-Brazzaville, in African dwarf crocodile, *Osteolaemus tetraspis*, and *Mecistops* [as *Crocodylus*] *cataphractus*); 2000: 582; Huchzermeyer, 2003: 207 (in *Osteolaemus tetraspis*); Junker & Boomker, 2006: 29 (catalogue).

Distr.: Democratic Republic of the Congo. Primary host: crocodile.

Alofia platycephalum (Lohrmann, 1889)

Pentastomum platycephalum Lohrmann, 1889: 303 (type: locality not given; in unknown crocodilian).

Porocephalus platycephalus; Shipley, 1898: 75, fig. 22.

Reighardia platycephala; Sambon (in Vaney & Sambon), 1910a: 139; Sambon, 1910b: 212.

Sebekia merki; Sambon, 1922: 195.

Alofia platycephala; Sambon, 1922a: 195, figs (host unknown, possibly *Alligator*); Heymons, 1935: 220; 1942a: 423 (Brazil; in *Caiman crocodilus* [as *sclerops*]; Paraguay; in crocodile, *Caiman latirostris*); Heymons & Vitzhum, 1935a: 48, figs 22, 25 (in *Alligator mississippiensis*); Rego, 1984a: 49, pl. 2 figs 3, 4, pl. 4 fig. 4; Self & Rego, 1985: 35, fig. 2 (redescription; *Alofia merki* as synonym); Riley, 1994: 23; Huchzermeyer, 2003: 207 (in *Caiman crocodilus* and *Caiman latirostris*); Junker & Boomker, 2006: 30 (catalogue); Poore, 2012a: 230 (spelling of name).

Distr.: South America. Primary hosts: crocodiles.

Alofia simpsoni Riley, 1994

Alofia simpsoni Riley, 1994: 35, fig. 8e, f (types: Ghana; in unknown crocodile); Riley & Huchzermeyer, 1995a: 151 (Botswana, in *Crocodylus niloticus niloticus* [as *Crocodylus niloticus*]); Junker et al., 1999: 67 (South Africa: Kruger National Park, in Nile crocodile, *Crocodylus niloticus niloticus* [as *Crocodylus niloticus*]; male described first time; female redescribed); Huchzermeyer, 2003: 207 (in undetermined crocodile from Ghana); Junker & Boomker, 2006: 29 (catalogue).

Distr.: South Africa. Primary host: crocodile.

Alofia solaris (Tubangui & Masiluñgan, 1936), *species inquirenda*

Pentastomum solaris Tubangui & Masiluñgan, 1936: 401, fig. (type: Philippine Islands: Palawan; in crocodile, *Crocodylus porosus*); Poore, 2012a: 214 (genus and species uncertain).

Remarks: Tubangi & Masiluñgan (1936) noted similarities of their parasite with *Pentastomum gracile*, now *Leiperia gracile* (Diesing, 1836), which occurs only in the Americas and Africa. On the other hand, they also suggested the possibility of it being a developmental stage of *Alofia travassosi* (Heymons, 1932), another parasite of crocodiles in the Philippines. We herein thus suggest that this species is either a synonym of *Alofia travassosi* or another closely related species of *Alofia*.

Distr.: Philippines. Primary host: crocodile.

Alofia travassosi (Heymons, 1932)

Elenia (*Waddycephalus*) *travassosi* Heymons, 1932b: 295, figs 1-2 (type in Zoologisches Museum Berlin: Philippines: Samar Islands: Basey River; host unknown).

Alofia travassosi; Heymons, 1935: 222, fig. 129; 1942a: 422; Heymons & Vitzhum, 1935a: 47 (distribution; type in Berliner Museum, in *Crocodylus porosus*).

Elenia travassosi; Poore, 2012a (listed without consideration of subsequent treatments as *Alofia* by the author of the species).

Distr.: Philippines. Primary host: crocodile.

Selfia Riley, 1994

Selfia Riley, 1994: 27; Junker & Boomker, 2006: 32 (diagnosis).

Type-species, by monotypy: *Selfia porosus* Riley, 1994.

Selfia porosus Riley, 1994

Selfia porosus Riley, 1994: 27, figs 1-4, 5a-e (types: Australia: Northern Territory; in bronchioles of the marine crocodile, *Crocodylus porosus*); Huchzermeyer, 2003: 207 (in *Crocodylus porosus*); Junker & Boomker, 2006: 32 (catalogue).

Distr.: Australia. Primary host: marine crocodile.

SEBEKINAE Sambon, 1922

Sebekidae Sambon, 1922a: 192; Heymons, 1935: 215 (diagnosis); Heymons & Vitzhum, 1935a: 38 (diagnosis).

Agema Riley, Hill & Huchzermeyer, 1997

Agema Riley et al., 1997: 211; Junker & Boomker, 2006: 27 (endemic in African region).

Type-species, by original designation: *Agema silvaepalustris* Riley, Hill & Huchzermeyer, 1997.

Agema silvaepalustris Riley, Hill & Huchzermeyer, 1997

Agema silvaepalustris Riley et al., 1997: 211, figs 1-3 (types: Congo Republic: Congo-Brazzaville: Likovala region; in lungs of the African dwarf crocodile, *Osteolaemus tetraspis* Cope and from the slender-snouted crocodile, *Mecistops* [as *Crocodylus*] *cataphractus*); Riley & Huchzermeyer, 2000: 582 (northern Congo Republic: Congo and Oubangui rivers, in lungs of dwarf crocodile, *Osteolaemus tetraspis* [as *Osteolaemus tetraspis osborni*]); Huchzermeyer, 2003: 207 (in *Mecistops* [as *Crocodylus*] *cataphractus* and *Osteolaemus tetraspis*); Junker & Boomker, 2006: 28 (catalogue).

Distr.: Democratic Republic of the Congo. Primary host: crocodile.

Pelonia Junker & Boomker, 2002

Pelonia Junker & Boomker, 2002: 54; Junker & Boomker, 2006: 32 (diagnosis).

Type-species, by original designation: *Pelonia africana* Junker & Boomker, 2002.

Pelonia africana Junker & Boomker, 2002

Pelonia africana Junker & Boomker, 2002: 54, fig. 1 (types: South Africa: Northern Province; in lungs of terrapin turtles, *Pelomedusa subrufa subrufa* [as *Pelomedusa subrufa*], and *Pelusios sinuatus*).

Distr.: South Africa. Primary host: terrapin turtles.

Sebekia Sambon, 1922

Sebekia Sambon, 1922a: 193; Heymons, 1922: 154 (diagnosis); 1942a: 419, figs (revision); Heymons & Vitzhum, 1935a: 38; M. Vargas V., 1974: 1021 (biology and taxonomy); Boyce et al., 1984: 1419 (sebekiosis in captive alligator hatchlings); Riley et al., 1985: 39 (Australia: Peron Island); Mairena et al., 1989: 352 (human dermatitis caused by nymph); Rego, 1984a: 48 (diagnosis); Rego & Vicente, 1988: 65 (Brazil: Mato Grosso State: Pantanal region; in fishes, *Pinirampus*, *Pseudoplatystoma*, and *Pygocentrus* [as *Serrasalmus*], and reptilian, *Helicops leopardinus* [as *leopardina*]); Ladds & Sims, 1990: 323 (Papua New Guinea; diseases in young captive *Crocodylus*); Riley et al., 1990: 24 (removal of *Alofia* from synonymy; revision); Junker et al., 1999: 65 (South Africa; in reptilian, *Crocodylus niloticus niloticus* [as *Crocodylus niloticus*]); Junker & Boomker, 2006: 28 (diagnosis).

Bdukus Holl, 1928: 64 (type-species: *Bdukus ichthyus* Holl, 1928; synonymized by Junker & Boomker, 2006).

Type-species, by original designation: *Sebekia wedli* Giglioli (in Sambon), 1922 [= *Sebekia minor* (Wedl, 1861)]

Unidentified species: *Sebekia* sp.; Salgado-Maldonado et al., 1997: 195 (Mexico; in cichlid fish, *Parachromis* [as *Cichlasoma*] *montaguense*); Guidelli et al., 2003: 261 (Brazil: Upper Paraná River; in pimelodid fish); Goldberg & Bursey, 2004: 62 (Costa Rica; in colubrid and elapid snakes).

Sebekia acuminata Travassos, 1924, *species inquirenda*

Sebekia acuminata Travassos, 1924: 240 (types: Brazil: Amazonas State; in unknown crocodilian); Heymons, 1935: 316; Heymons & Vitzthum, 1935a: 42 (imperfectly known species); Rego, 1984a: 50 (*species inquirenda*, probably *Sebekia oxycephalum*); Riley et al., 1990: 23 (*species inquirenda*, insufficiently described); Huchzermeyer, 2003: 207 (in undetermined crocodile from Brazil); Junker & Boomker, 2006: 30 (catalogue, *species inquirenda*); Röhlig et al., 2010: 149 (as *nomen dubium*; non-type material from Paraguay, host not recorded, deposited in Museum für Naturkunde, Berlin); Poore, 2012a: 213 (listed as a doubtful species).

Distr.: Brazil and Paraguay. Primary host: crocodile.

Sebekia cesarisi Giglioli (in Sambon), 1922

Sebekia cesarisi Giglioli (in Sambon), 1922: 193 (types: Africa; in lungs of *Crocodylus* sp.; belonging to Sebekini, together with *Pentastoma wedli* and *P. divestei*); Junker & Boomker, 2006: 30 (catalogue).

Sebekia divestii; Heymons, 1935: 217; Heymons & Vitzthum, 1935a: 42 (species known imperfectly); Riley et al., 1990: 14, figs 2e, 3d, 4e (Uganda, in *Crocodylus* sp.; Ghana, nymphs in *Crocodylus* sp.); Riley & Huchzermeyer, 1995b: 229, figs 1c, e, f, 5a-f (Botswana, in *Crocodylus niloticus niloticus* [as *Crocodylus niloticus*]); Junker et al., 1999: 66 (South Africa, in *Crocodylus niloticus niloticus* [as *Crocodylus niloticus*]); Huchzermeyer, 2003: 207 (in *Crocodylus niloticus niloticus* [as *Crocodylus niloticus*]).

Non *Sebekia cesarii*; Riley et al., 1990 (= *S. okavangoensis*).

Distr.: Africa. Primary host: crocodile.

Sebekia divestei Giglioli (in Sambon), 1922

Sebekia divestei Giglioli (in Sambon), 1922: 193 (types: Central and South America: locality unknown, in lungs of American crocodile, *Crocodylus acutus* [as *americanus*]).

Sebekia divestii; Heymons, 1935: 216; Heymons & Vitzthum, 1935a: 42 (species imperfectly known); Self & Rego, 1985: 35 (synonymized with *Sebekia oxycephalum*); Riley et al., 1990: 9, fig. 2d (Central and South America: locality unknown, in *Crocodylus*; removal from synonymy with *S. oxycephalum*); Huchzermeyer, 2003: 207 (in *Crocodylus acutus*).

Sebekia divestei; Rego, 1984a: 49; Junker & Boomker, 2006: 30 (catalogue).

Distr.: Central and South America. Primary host: crocodile.

Sebekia johnstoni Riley, Spratt & Winch, 1990

Sebekia johnstoni Riley et al., 1990: 15, figs 2f 3e, 4f, 7a, b, 8a, b, 9a (types: Australia: Northern Territory, in *Crocodylus johnsoni*, and *Crocodylus porosus*); Huchzermeyer, 2003: 207 (in *Crocodylus johnsoni*); Junker & Boomker, 2006: 30 (catalogue).

Distr.: Australia. Primary hosts: crocodiles.

Sebekia joubini (Vaney & Sambon, 1910), *species inquirenda*

Porocephalus joubini Vaney & Sambon, 1910: 131, fig. (types from Muséum National d'Histoire Naturelle, Paris: Gabon; in *Crocodylus siamensis*); Poore, 2012a: 213 (as incertae sedis, erroneously spelled *jubini* by some authors).

Reighardia joubini; Sambon (in Vaney & Sambon), 1910a: 139.

Sebekia joubini; Sambon, 1922a: 194 (Southeast Asia: Siam; Cambodia; Java; in nasal cavity of Siamese crocodile, *Crocodylus siamensis*); Heymons, 1935: 217 (diagnosis); Heymons & Vitzhum, 1935a: 42 (species imperfectly known); Riley et al., 1990: 23 (*species inquirenda*, perhaps belonging to *Subtriqueta*); Huchzermeyer, 2003: 207 (in *Crocodylus siamensis*); Junker & Boomker, 2006: 30 (catalogue).

Distr.: Southeast Asia. Primary host: crocodile.

Sebekia microhamus Self & Rego, 1985

Sebekia microhamus Self & Rego, 1985: 37, fig. 3 (type: Brazil; in crocodile, *Caiman crocodilus*); Huchzermeyer, 2003: 207 (in *Caiman crocodilus*); Junker & Boomker, 2006: 31 (catalogue).

Distr.: Brazil. Primary host: crocodile.

Sebekia minor (Wedl, 1861)

Pentastoma oxycephalum var. *minor* Wedl, 1861: 225 (type: Africa: Luapala; in bronchiae of *Crocodylus niloticus suchus* [as *Crocodylus vulgaris*]).

Sebekia wedli Giglioli (in Sambon), 1922: 193 (Africa, in bronchi of *Crocodylus niloticus niloticus* [as *Crocodylus niloticus*]; objective synonym, unnecessary replacement name); Heymons, 1935: 216, fig. 124; Heymons & Vitzhum, 1935a: 39 (distribution); Devos, 1939: 194, figs (Democratic Republic of the Congo, in *Crocodylus niloticus niloticus* [as *Crocodylus niloticus*]); Fain, 1961: 51, fig. (Central Africa); Legendre, 1967: 341 (chromosome number); Self & Rego, 1985: 35 (synonymized with *Sebekia oxycephalum*); Riley et al., 1990: 14, figs 2b, 3a (Uganda, in *Crocodylus niloticus niloticus* [as *Crocodylus niloticus*]); species revalidated; removed from synonymy of *S. oxycephalum*, which is unjustified on biogeographical grounds); Riley & Huchzermeyer, 1995b: 223, figs 1a, b, 2a-d (Botswana, in *Crocodylus niloticus niloticus* [as *Crocodylus niloticus*]); Junker et al., 1998a: 159 (South Africa; piscen hosts, *Oreochromis mossambicus*, and *Tilapia rendalli*); 1998b: 233 (South Africa: Transvaal: Kruger National Park; in Nile crocodile, *Crocodylus niloticus niloticus* [as *Crocodylus niloticus*], and larvae in Mocambique bream, *Oreochromis mossambicus*, *Tilapia rendalli*, and the guppy, *Poecilia reticulata*); 1999: 66 (South Africa: Kruger National Park, in *Crocodylus niloticus niloticus* [as *Crocodylus niloticus*]); Huchzermeyer, 2003: 207 (in *Crocodylus niloticus niloticus* [as *Crocodylus niloticus*]); Junker & Boomker, 2006: 30 (catalogue); Luus-Powell et al., 2008: 323 (South Africa: Limpopo Province; Flag Boshielo Dam; larvae in body cavity of mormyrid fish, *Marcusenius macrolepidotus*).

Sebekia oxycephala; Self & Rego, 1985: 35.

Sebekia minor; Poore, 2012a: 231 (explanation of new combination).

Distr.: Africa. Primary hosts: crocodiles. Intermediate hosts: freshwater fishes.

Sebekia mississippiensis Overstreet, Self & Vilet, 1985

Pentastoma oxycephalum Diesing, 1836: 23 (*partim*).

Sebekia mississippiensis Overstreet et al., 1985: 266 (types: USA: Louisiana; Mississippi; Florida; in American alligator, *Alligator mississippiensis*); Boyce, 1985: 278 (USA: north Florida; in *Alligator mississippiensis*); Ferenc et al., 1986: 296 (experimental infestation in brown water snake, *Nerodia taxispilota*); Boyce et al., 1987a: 689 (southwestern USA: Florida: West Lafayette, Indiana; definitive host, *Alligator mississippiensis*; intermediary hosts, several species of fish: moskitofish, *Gambusia affinis affinis* [as *Gambusia affinis*], swordtails, *Xiphophorus helleri*); 1987b: 265 (in vitro maintainance); Moreland et al., 1989: 42 (USA: north central Florida; in young alligators, *Alligator mississippiensis*); Riley et al., 1990: 7, figs 2c, 3c, 4a, 5c, d (USA: Louisiana: Marsh Island); Boyce & Kazacos, 1991: 104 (nymphal infection in paratenic hosts, turtle, *Pseudemys nelsoni*, hamsters and mice, causing pentastomiasis); Scott et al., 1999: 127 (USA; Texas and Louisiana; in American alligator, *Alligator mississippiensis*); Adams et al., 2001: 500 (causing fatal pentastomiasis in African dwarf crocodile, *Osteolaemus tetraspis*); Huchzermeyer, 2003: 207 (in *Alligator mississippiensis*); Junker & Boomker, 2006: 31 (catalogue).

Distr.: Southern USA. Primary hosts: alligators and snake. Intermediate hosts: freshwater and marine fishes, turtle and small mammals.

Sebekia multiannulata Riley, Spratt & Winch, 1990

Sebekia multiannulata Riley et al., 1990: 17, figs 2g, 3f, 4g, 7c, 8c, d, 9a-d, 10a, b (types: Australia: Northern Territory, in *Crocodylus johnsoni*, and *Crocodylus porosus*); Huchzermeyer, 2003: 207 (in *Crocodylus johnsoni* and *Crocodylus porosus*); Junker & Boomker, 2006: 30 (catalogue).

Distr.: Australia. Primary hosts: crocodiles.

Sebekia novaeguineae Riley, Spratt & Winch, 1990

Sebekia novaeguineae Riley et al., 1990: 21, figs 2a, i, 3h, 4i, 7d (types: Papua New Guinea; in *Crocodylus novaeguineae*); Huchzermeyer, 2003: 207 (in *Crocodylus novaeguineae*); Junker & Boomker, 2006: 30 (catalogue).

Distr.: Papua-New Guinea. Primary host: crocodile.

Sebekia okavangoensis Riley & Huchzermeyer, 1995

Sebekia okavangoensis Riley & Huchzermeyer, 1995b: 228, fig. (types: Botswana: Okavango swamps; in *Crocodylus niloticus niloticus* [as *Crocodylus niloticus*]; Republic of the Congo, in *Mecistops* [as *Crocodylus*] *cataphractus*); 1995a: 152 (Republic of the Congo: Brazzaville, in lungs of African dwarf crocodile, *Osteolaemus tetraspis*); Junker et al., 1999: 66 (South Africa: Kruger National Park, in *Crocodylus niloticus niloticus* [as *Crocodylus niloticus*]); Riley & Huchzermeyer, 2000: 582 (Republic of the Congo, in crocodilian, *Osteolaemus tetraspis*); Huchzermeyer, 2003: 207 (in *Crocodylus niloticus niloticus* [as *Crocodylus niloticus*], *Mecistops* [as *Crocodylus*] *cataphractus*, and *Osteolaemus tetraspis*); Junker & Boomker, 2006: 30 (catalogue); Luus-Powell et al., 2008: 323 (South Africa:

Mpumalanga Province: Komatipoort region; larvae in body cavity of clariid fish, *Clarias gariepinus*).

Sebekia cesarisi; Riley et al., 1990: 1.

Distr.: Africa. Primary host: crocodiles. Intermediate host: freshwater fish.

Sebekia oxycephalum (Diesing, 1836)

Pentastoma proboscideum; Rudolphi, 1819: 637 (*partim*; in pharynx and tracheae of *Caiman crocodilus* [as *sclerops*]); Mayer, 1851: 130.

Pentastomum proboscideum crocodile scleropsis; Rudolphi, 1819; Shipley, 1898: 52; Junker & Boomker, 2006.

Not Leidy, 1850: 96; 1884: 140; 1890: 410 (= *Kiricephalus coarctatus*).

Pentastoma oxycephalum Diesing, 1836: 20, pl. 3, figs 16-23 (*partim*; types: Brazil: Mato Grosso: Cuiabá; Rio Cabacal; in fishes, *Gymnotus carapo* [as *Carapus brachyurus*], *Electrophorus electricus*, and *Apteronotus* [as *Sternarchus*] *albifrons*, and in *Crocodylus acutus* [as *americanus*]); Dujardin, 1845: 307 (Austria: Vienna; in lung of *Caiman crocodilus* [as *Crocodylus sclerops*], and *Crocodylus acutus*; Brazil; abundant in lungs and tracheae of caiman); Cobbold, 1861a: 124 (in lungs of *Alligator mississippiensis*).

Pentastoma gracile; Diesing, 1836: 20 (*partim*; in snake, *Bothrops* [as *Lachesis*] *lanceolata*; larvae in fishes, *Potamotrygon* [as *Taeniura*] *motoro*, *Synbranchus marmoratus*, and in snake, *Eunectes murinus* [as *scytale*]).

Pentastomum oxycephalum; Diesing, 1850: 609 (*partim*; in fishes, *Salminus brasiliensis* [as *Hydrocyon brevidens*], *Rhaphidion vulpinus*, *Tetragonopterus argentatus*, and in snakes, *Pseudoeryx plicatilis plicatilis* [as *Dimades plicatilis*], *Micrurus tschudii tschudii* [as *Helicops tschudii*], and *Heterodon* sp.); Chatin, 1882: 30 (in cayman, *Alligator mississippiensis* [as *lucius*]).

Pentastomum gracile; Diesing, 1850 (*partim*).

Pentastomum heterodontis Leuckart, 1860a: 156 (types not stated; synonymized by Junker & Boomker, 2006); Sambon, 1922b: 418 (immature forms of doubtful determination); Heymons & Vitzhum, 1935b: 150, figs (United States); 1936: 34.

Pentastomum proboscideum; Leidy, 1884: 140 (USA: Florida; in rattlesnake *Crotalus durissus durissus* [as *Crotalus adamanteus*]); MacAllister, 1874: 425; Stiles, 1891a: 348; 1891b: 85.

Porocephalus oxycephalus; Stiles, 1891b: 85; Shipley, 1898: 69, fig. 13.

Porocephalus heterodontis; Shipley, 1898: 69.

Reighardia oxycephala; Sambon (in Vaney & Sambon), 1910a: 138.

Porocephalus crocodili Wheeler, 1915: 207 (*partim*) (type: Ecuador: Guayaquil: Guayas river; in *Crocodylus acutus* [as *americanus*]; synonymized in part by Junker & Boomker, 2006) (p.p. = *Diesingia megastomum*; p.p. possibly = *Leiperia gracilis*).

Sebekia oxycephala; Sambon, 1922a: 193 (*partim*; Africa; in *Alligator mississippiensis*, *Caiman crocodilus*, and *Crocodylus acutus*); Heymons, 1935: 215, fig. 123; 1941a: 317 (locality unknown, in *Caiman latirostris*); 1941b: 254, figs (Brazil; larvae in silurid fish, *Vandellia cirrhosa*, from Naturhistisk Museum Wien); Heymons & Vitzhum, 1935b: 150; 1936: 150, figs 18-21 (distribution: southern North America; South America; Paraguay; in crocodiles, *Alligator mississippiensis*, *Crocodylus acutus* [as *americanus*], *Caiman crocodilus* [as *sclerops*]; larvae in reptiles, *Farancia abacura abacura* [as *Farancia abacura*], *Heterodon*

sp., *Pseudoeryx plicatilis plicatilis* [as *Pseudoerix plicatilis*], *Tupinambis teguixin*, and fish); Bangham, 1939: 263 (Florida; in fishes); Venard & Bangham, 1941: 23, figs 1-8 (Florida; larva encysted in mesenteries of fish, *Amia calva*, *Gambusia holbroocki* [as *Gambusia affinis holbroocki*], *Lepomis punctatus* [as *Sclerotis punctatus punctatus*], *Lepomis megalotis* [as *Xenotis megalotis marginatus*], *Lepomis gibbosus* [as *Eupomotis microlophus*], *Lepomis* [as *Chaenobryttus*] *gulosus*, and *Pomoxis nigromaculatus* [as *sparoides*]); Fain, 1961: 51, fig.; Dukes et al., 1971: 1028 (USA: Louisiana: Concordia Parish: Lake St. John; in largemouth bass and snapping turtle, *Chelydra* [as *Chelhydra*] *serpentina*); Hazen et al., 1978: 435 (USA: South Carolina; in the American alligator, *Alligator mississippiensis*); Cherry & Ager, 1982: 509 (USA: Florida; in American alligators, *Alligator mississippiensis*); Boyce et al., 1984: 1419 (sebekiosis in captive alligator hatchlings, *Alligator mississippiensis*); Rego, 1984a: 48, pl. 2 figs 1, 2, pl. 4 figs 2, 3 (in lung of crocodile from Americas, *Crocodylus acutus* [as *americanus*], and *Caiman crocodilus*; larvae in mammals, *Pteronura brasiliensis brasiliensis* [as *Pteronura brasiliensis*], reptiles *Tupinambis teguixin*, *Farancia abacura abacura* [as *Farancia abacura*], *Eunectes murinus*, *Boa constrictor*, *Crotalus horridus*, *Xenodon merremii* [as *Ophis merrimi*], *Spilotes pullatus pullatus* [as *Spilotes pullatus*], *Bothropoides* [as *Bothrops*] *jararaca*, *Pseudoeryx plicatilis plicatilis* [as *Dimades plicatilis*], *Micrurus* sp., *Tropidonotus* sp., *Coluber* sp., and fish, *Pseudoplatystoma fasciatum*, *Pygocentrus piraya*, *Synbranchus marmoratus*, *Apteronotus* [as *Sternarchus*] *albifrons*, *Potamotrygon motoro*, *Electrophorus electricus*, *Rhaphiodon vulpinus* [as *Salmo tamuco*], "*Silurus pintado*", "*Silurus dourado*", *Silurus* sp., *Salmo salar* [as *saua*], *Salmo* sp., *Pristigaster aureus* [as *Salmo erythrophthalmus*], and in marine fish, "*Clupea tobarana*"; Self & Rego, 1985: 34, fig. 1 (Brazil; in *Melanosuchus niger*; new synonym: *S. wedli*); (Winch & Riley, 1986a: 251 (Trinidad; in crocodile, *Caiman crocodilus* [as *sclerops*]); Boyce et al., 1987a: 689 (nymphs in viscera of four species of fish: mollies, *Poecilia latipinna*, guppies, *Poecilia reticulata*, platies, *Xiphophorus maculatus*, and *Tilapia zilli*); Rego & Eiras, 1989: 591 (Brazil; in piscean hosts, *Pseudoplatystoma* and *Pygocentrus* [as *Serrasalmus*] *nattereri*, and reptilians, *Caiman crocodilus*, and *Melanosuchus niger*); Eiras & Rego, 1989: 1 (Brazil; in piscean, *Hoplias malabaricus*); Riley et al., 1990: 1 (Brazil; in fish, *Pygocentrus* [as *Serrasalmus*] *nattereri*, *Pseudoplatystoma corruscans*, and crocodiles, *Caiman crocodilus* [as *sclerops*], and *Melanosuchus niger*; removed from synonymy: *S. divesti* and *S. wedli*); Junker & Boomker, 2006: 31 (catalogue); Luus-Paulus et al., 2008: 327 (Trinidad; infective larva in fish, blue acra, *Aequidens pulcher* [as *pulchra*], *Tilapia* sp.; Florida; infective larvae in mosquitofish, *Gambusia affinis affinis* [as *Gambusia affinis*]); Almeida et al., 2010 (Brazil: Paraná: Cambé river; nymph from mesentery of fish *Phalloceros harpagos*); Röhlig et al., 2010: 150, fig. 5f (non-type material, including Paraguay, deposited in Museum für Naturkunde, Berlin); Brito et al., 2012: 394 (Brazil: Mato Grosso do Sul: Córumbá; adults in lung, and larvae in stomach and intestine of crocodile *Caiman yacare*).

Bdukus ichthyius Holl, 1928: 64, fig. (types: USA: North Carolina: Gibsonville; in yellow bullhead fish, *Ameiurus natalis*, and the pumplonseed fish, *Lepomis* [as *Eupomotis*] *gibbosus*; synonymized by Junker & Boomker, 2006).

Not *Porocephalus crocodili* (and *Sebekia crocodili*); Heymons & Vitzthum, 1935b: 155-156 (= *S. megastoma*).

Leiperia heterodontis; Heymons & Vitzthum, 1935b: 150, figs 1-2.

Sebekia oxycephalum; Poore, 2012a: 232 (the specific name *oxycephalum* would appear to be a noun and its ending does not require to be changed to *oxycephala* as appears in recent literature; partial synonymies also discussed).

Distr.: Americas Primary hosts: snakes and lizards. Intermediate hosts: freshwater fishes, reptiles, and mammals.

Remarks: The problem of the *oxycephalum/oxycephala* termination could be solved permanently with the designation of a lectotype or neotype (Gary Poore, in litt.).

Sebekia purdieae Riley, Spratt & Winch, 1990

Sebekia purdieae Riley et al., 1990: 20, figs 2h, 3g, 4h (types: Australia: Northern Territory; in *Crocodylus porosus*); Huchzermeyer, 2003: 207 (in *Crocodylus johnsoni* and *Crocodylus porosus*); Junker & Boomker, 2006: 30 (catalogue).

Distr.: Australia. Primary host: crocodile.

Sebekia samboni Travassos & Pereira, 1924, *species inquirenda*

Sebekia samboni Travassos, 1924: 240 (types: Brazil: Amazonas State; in unknown crocodilian); Heymons, 1935: 216; Heymons & Vitzhum, 1935a: 42 (species imperfectly known); Rego, 1984a: 50 (*species inquirenda*, probably *Sebekia oxycephalum*); Riley et al., 1990: 23 (*species inquirenda*, insufficiently described); Huchzermeyer, 2003: 207 (in undetermined crocodile from Brazil); Junker & Boomker, 2006: 31 (catalogue); Poore, 2012a: 213 (listed as a doubtful species).

Distr.: Brazil. Primary host: crocodile.

Sebekia trinitatis Riley, Spratt & Winch, 1990

Sebekia trinitatis Riley et al., 1990: 4, figs 1c, 3b, 4b-d, 5a-b, 6a-d (types: Trinidad, in *Caiman crocodilus* [as *sclerops*]); Huchzermeyer, 2003: 207 (in *Caiman crocodilus*); Junker & Boomker, 2006: 31 (catalogue).

Distr.: Trinidad. Primary host: crocodile.

POROCEPHALIDAE Sambon, 1922

Pentastomidae Shipley, 1909: 488; Poore, 2012a: 225 (explanation of why this name does not have priority).

Porocephalinae Sambon, 1922a: 190 (erected as a subfamily of the Linguatulidae).

Porocephalidae; Kishida, 1928: 399 (introduced as a 'nov. fam.' in spite of earlier use); Curasson, 1929: 255 (development of hosts of new porocephalans); Heymons, 1935: 214 (diagnosis); Heymons & Vitzhum, 1935a: 26 (diagnosis); Nicole & Golvan, 1959: 145 (Angola); Self, 1969: 63; Saint Raymond-Moynat, 2008: 99 (review of genera and species causing cutaneous eruptions in reptiles).

Armilliferidae Kishida, 1928: 397; Fain, 1961; Poore, 2012a: 222 (listed as distinct from Porocephalidae, explaining authorship of name).

Diesingiinae Heymons, 1935: 224 (diagnosis); Heymons & Vitzhum, 1935a: 52.

Nettorhynchidae Doucet, 1962: 117 (*nomen nudum*); Nicoli, 1963: 500 (*nomen novum pro* Armilliferidae); Poore, 2012a: 222 (explaining origin of name).

Diesingiidae; Rego, 1983b: 237; Self, 1982a: 727.

Type: *Porocephalus* Humboldt, 1812: 298.

ARMILLIFERINAE Kishida, 1928

Armillerinae Kishida, 1928: 400.

Armilleridae; Fain, 1961: 68; Riley, 1986: 92; Poore, 2012a: 222 (authorship of name).
Nettorhynchidae Doucet, 1962, 117 (nomen nudum).

Armiller Sambon, 1922

'nettorhynche' Blainville, 1824: 517.

Armiller Sambon, 1922a: 200 (for *Porocephalus armillatus*, *P. moniliformis*, and *P. annulatus*); Kishida, 1928: 400 (diagnosis); Heymons, 1935: 236 (diagnosis); Heymons & Vitzhum, 1935a: 76 (*Cubirea* as synonym); Dollfus, 1950: 112 (as synonym of *Nettorhynchus*); Steinbach & Johnstone, 1957: 234 (porocephaliasis in man, roentgen diagnosis); Nicoli et al., 1965a: 238; 1965b: 513 (nomenclature); Riley & Self, 1981b: 171 (diagnostic characters); Nozais et al., 1982: 497 (pentastomiasis in man); Faveaux, 1984: 1 (Ethiopian region; in Chiroptera); Lok & Kirkpatrick, 1987: 494 (pentastomiasis in captive monkeys, *Cebus capucinus*); Poore, 2012a: 222 (history of *Armiller* and purported synonyms, *Netrorhynchus*/*Nettorhynchus*, showing that the priority of the latter two names seems to be ill-supported, without popular support, and have not been used since 1967).

Ligamifer Heymons, 1932a: 416 (Type-species: *Waddycephalus mazzai* Sambon, 1922 [as *Ligamifer mazzai* Sambon, 1922], by monotypy); Heymons, 1932a: 416; 1935: 243 (diagnosis); Heymons & Vitzhum, 1935a: 93.

Type-species, by original designation: *Linguatula armillata* Wyman, 1845, as *Armiller armillata* (Wyman, 1848).

Unidentified species: *Nettorhynchus* sp. Dollfus, 1950: 112 (*Armiller* as a junior synonym); 1959: 519, figs (Sudan: Bamako; in frugivorous bat, *Eidolon helvum helvum* [as *Eidolon helvum*]). *Armiller* spp.; Goldsmid & Melmed, 1973: 213 (Rhodesia; human porocephaliasis, infection); Paré, 2008: 285 (causing pentastomiasis in reptiles and other vertebrates). *Armiller* sp.; Young, 1975: 335 (South Africa: Kruger National Park; in wild animals); Krishnasamy et al., 1980: 231 (west Malaysia; in rat, *Rattus tiomanicus*); M.H. Qiu & Jiang, 2007: 510 (patient from Guanxi: Yulin, previously misidentified with *Armiller* sp.; recovered specimen probably belongs to a nasal leech); Pantchev & Tappe, 2011: 528 (pentastomiasis in China provoked by snake infection).

Armiller arborealis Riley & Self, 1981

Armiller arborealis Riley & Self, 1981b: 176 (type from London Zoo: Australia: Northern Territory; in snake, *Morelia* [as *Chondropython*] *viridis*, and colubrid, *Boiga irregularis*); Riley et al., 1985: 48 (Australia: Western Australia: Walsh Point: Mitchell Plateau; in liver of *Dasyurus* [as *Satanellus*] *hallucatus*, and from liver and lung of *Isoodon macrourus macrourus* [as *Isoodon macrourus*]; Northern Territory: Cannon Hill; in small intestine of *Dasyurus* [as *Satanellus*] *hallucatus*).

Distr.: Australia. Primary host: snake. Intermediate host: mammals.

Armiller agkistrodontis Self & Kuntz, 1966

Armiller agkistrodontis Self & Kuntz, 1966b: 259, figs 7-9 (types: Taiwan: Ping Tung Hsien; female in lung of snake, *Deinagkistrodon* [as *Agkistrodon*] *acutus*); Keegan et al.,

1969: 150, fig. (Asia); Q.Y. Zhang et al., 1996: 747 (China; disease report case); S.H. Chen et al., 2010: 1 (China; genetic identification; larvae in liver and spleen of mouse, adults in lung of snakes, *Deinagkistrodon* [as *Agkistrodon*] *acutus* and *Python molurus*); Mätz-Rensing et al., 2012: 210 (peritoneal cavity of long-tailed macaque, *Macaca fascicularis fascicularis* [as *Macaca fascicularis*], imported from China, heavily infested with nymphs).
Distr.: China. Primary host: snake.

Armillifer armillatus (Wyman, 1845)

Netrorhynchus blainvillei J.C. Zenker, 1827: 53; Poore, 2012a: 222 (nomenclatural history; potential senior synonym of *Armillifer*, but it has been suggested that *Netrorhynchus*/*Nettorhynchus* is in fact a nematode, although not appearing in modern lists of Nematoda; *Nettorhynchus* apparently not used again since 1967).

Linguatula armillata Wyman, 1845: 295 (types: West Africa: near Cape Palmas [now Liberia]; in snake, *Python bivittatus* [as *bivittata*]).

Nettorhynchus blainvillei; Gervais, 1847: 630 (incorrect subsequent spelling); Cobbold, 1864: 414 (from salmon); Dolley, 1894: 1004; Stiles & Hassall, 1905: 123 (cited among nematodes); Dollfus, 1950: 113 (original figures considered to be *Armillifer armillatus*; placed by that author among the linguatules).

Pentastomum constrictum Siebold, 1853: 65 (types, ? London School of Hygiene and Tropical Medicine: Egypt: Cairo; juvenile in man); Prüner, 1852: 19, pl. 5; Canstatt, 1852: 206; Bilharz, 1856: 329 (in man); Aitken, 1865: 939 (as a cause of painful disease and death in human body); Leuckart, 1879: 179 (parasite in man); Giard, 1896: 469 (parasite of liver in blacks); 1898: 1098 (in liver of black man); Huber, 1898: 1098 (in liver of black man); Thiroux, 1905: 78, fig. 1a-d (Senegal; a case in man); Salm, 1907a: 464.

Linguatula diesingii Beneden, 1848e: 189 (types from Jardin zoologique d'Anvers, Antwerp, Belgium: Africa; juvenile in mandrill, *Mandrillus sphinx* [as *Cynocephalus mormon*], and *Papio papio*); 1849: 69 (Africa; juvenile in mandrill, *Mandrillus sphinx* [as *Cynocephalus mormon*]); Ives, 1889: 31 (from the sooty mangabey, *Cercocebus atys atys* [as *Cercopithecus fuliginosus*]).

Pentastomum tornatum Creplin, 1849: 54 (juvenile; unnecessary replacement name for *Linguatula deisingii*) (p.p. = *Armillifer moniliformis moniliformis*); Ives, 1889: 31 (from the sooty mangabey).

Armillifer armillatus; Sambon, 1922a: 201, fig. 24 (hosts: adults in snakes, *Bitis arietans*, *Bitis gabonica*, *Cerastes cerastes* [as *cornutus*], *Python molurus*, *Broghammerus* [as *Python*] *reticulatus*); nymphs from man, *Homo sapiens*, macaque monkey, *Macaca fascicularis fascicularis* [as *Macacus cynomolgus*], rhesus monkey, *Macaca mulatta* [as *Macacus rhesus*], Sumatran monkey of undetermined species, simians, *Chlorocebus aethiops* [as *Cercopithecus aethiops* and *Cercopithecus engythis*], *Chlorocebus tantulus tantulus* [as *Cercopithecus pousarguei*], *Chlorocebus tantulus tantulus* [as *Cercopithecus tantulus*], tiger, *Panthera tigris tigris* [as *Felis tigris*], leopard, *Panthera pardus pardus* [as *Felis pardus*], dog, *Canis lupus familiaris* [as *Canis familiaris*], Indian otter, *Lutra lutra lutra* [as *Lutra nairi*], carnivores, *Galidictis fasciata fasciata* [as *Ariella fasciata*], *Atilax paludinosus paludinosus* [as *Atilax paludinosus*], and *Herpestes ichneumon cafra* [as *Herpestes cafer*], suid, *Phacochoerus aethiopicus aethiopicus* [as *Phacochoerus aethiopicus*]; Southwell, 1924: 515 (larvae in *Bos taurus taurus* [as *Bos taurus*]); Hett, 1924a: 146 (adults in *Python sebae*, *Python regius*, and

Bitis arietans; larvae in man, *Cercopithecus mona*, *Chlorocebus aethiops* [as *Cercopithecus engythithia*], *Papio cynocephalus ibleanus* [as *Perodictus ibleanus*], *Crossarchus obscurus*, *Hymoschus aquaticus*, *Herpestes javanicus javanicus* [as *Mungo galera*], *Cephalophus leucogaster leucogaster* [as *Cephalophus leucogaster*], *Potamochoerus porcus* [as *penicillatus*], and *Herpestes naso* [as *Herpestes urva naso*]; Porter, 1928: 359, figs (South Africa: Shangaan; in man); Curasson, 1929: 255 (in snakes, *Naja naja* [as *haje*], and *Hemachatus haemachatus* [as *Sepedon haemachates*]); Natvig, 1932: 123, figs (Norway: near Oslo: Nesodden, in *Pernis apivorus*); Heymons, 1935: 236, fig. 8 (Distr. of hosts: adults in snakes *Bitis arietans*, *Bitis gabonica*, *Bitis nasicornis*, *Cerastes cerastes* [as *cornutus*], *Python regius*, and *Python sebae*; nymphs in suid *Phacochoerus aethiopicus aethiopicus* [as *Phacochoerus aethiopicus*], and simian, *Papio cynocephalus cynocephalus* [as *Papio cynocephalus*]); 1940c: 219 (Congo Republic: Cameroon; larva in *Cerastes cerastes* [as *cornutus*], and *Causus rhombeatus*; adults in hedge-hog, *Atelerix frontalis frontalis* [as *Athechinus frontalis*], bat, *Hipposideros cyclops*, rodents, *Atherurus africanus*, and *Anomalurus derbianus* [as *fraseri*], in carnivores, *Nandinia binotata binotata* [as *Nandinia binonata*], *Viverra civettina* [as *Civettictis civetta*], *Hydrictis maculicollis* [as *Lutra maculipennis*], and *Mellivora capensis cottoni* [as *Mellivora sagulata*], ruminants, *Hippotragus equinus equinus* [as *Hippotragus equinus*], and *Cephalophus weynsi weynsi* [as *Cephalophus weynsi*], prosimian, *Euticus* [as *Galago*] *elegantulus*, simian, *Chlorocebus cynosuroides* [as *Cercopithecus aethiops cynosuroides*], strigid bird, *Bubo africanus*, and mammals, *Herpestes* sp., *Atilax paludinosus paludinosus* [as *Atilax paludinosus*], *Genetta* sp., *Mungos* sp., *Mungos mungo mungo* [as *Crossarchus fasciatus*], *Phacochoerus* sp., and *Potamochoerus porcus*); Heymons & Vitzhum, 1935a: 77, figs 31-32 (young forms in edentate, *Orycteropus afer aethiopicus* [as *Orycteropus aethiopicus*], insectivore, *Macroscelides* sp., rodents, *Cricetomys gambianus*, carnivore, and *Xerus (Euxerus) erythropus erythropus* [as *Xerus erythropus*], viverrids, *Genetta pardina*, *Ichneumia albicauda albicauda* [as *Ichneumia albicauda*], *Herpestes ichneumon cafra* [as *Mungos cafer*], *Atilax paludinosus paludinosus* [as *Mungos paludinosus*], *Herpestes naso*, *Mungos mungo mungo* [as *Crossarchus fasciatus*], *Crossarchus obscurus*, and *Bdeogale crassicaudata puisa* [as *Bdeogale puisa*], carnivore, *Paradoxurus hermaphrodites hermaphroditus* [as *Paradoxus hermaphrodites*], felids, *Panthera leo leo* [as *Felis leo*], *Leptailurus serval serval* [as *Felis serval*], and *Acinonyx jubatus jubatus* [as *Acinonyx guttatus*], suid, *Phacochoerus africanus africanus* [as *Phacochoerus africanus*], bovid, *Redunca* [as *Eleotragus*] *arundinum*, and *Tragelaphus scriptus scriptus* [as *Tragelaphus scriptus*], simians, *Cercocebus atys atys* [as *Erythrocebus fuliginosus*], *Papio papio*, *Papio ursinus ursinus* [as *Papio porcarius*], *Mandrillus sphinx* [as *maimon*], *Pan troglodytes troglodytes* [as *Pan satyrus* and *Pan chimpanse*], and *Erythrocebus patas*); V.S. Dias, 1942: 762, figs 1-2 (Portugal, in guinea-pig); Whittick, 1943: 254, fig; Manuwa, 1947: 507 (porocephalosis in man); Ardran, 1948: 342 (calcification of cysts in man); Coster & Rodhain, 1951: 331 (nymphs in eye of indigenous infant); Self & Kuntz, 1957: 195 (Egypt: El Amiriya, in *Hemiechinus auritus auritus* [as *Hemiechinus auritus*]); Brumpt et al., 1949: 1060 (Sudan: Bahr El Ghazal Province: Tonj District; nymph in body cavity of four-toed hedgehog *Atelerix albiventris* [as *Atelerix pruneri ovensi*]); Gratama & Thiel, 1957: 374, fig. (Liberia; in eye of human); Bouckaert & Fain, 1959: 793 (nymphs causing intestinal obstruction and death in man); Doucet, 1960b: 3 (Congo Republic; adults in snake, *Python sebae*, nymph in abdominal cavity of mammal, *Dologale dybowskii*); Heuschele, 1961: 911 (internal parasites of monkeys); Fain, 1961: 68, figs (Central Africa); 1975: 61 (review of occurrence in man); Bretland 1962: 603 (Ghana: infestation in two soldiers);

Nicole, 1963: 500 (adults in *Boaedon lineatus*, *Bothrophthalmus lineatus*, *Naja naja* [as *haje*], and *Hemachatus haemachatus* [as *Sepedon haemachates*]); Fain & Salvo, 1966: 677, figs (nymphs); Dönges, 1966: 252, figs 1-6 (southwest Nigeria: State Abeokuta; nymphs; parasitic cysts in mesentery of abdomen of a Nigerian); Legendre, 1967: 341 (chromosome number); Ranque, 1972: 437 (fluorescence and precipitant antibodies against this parasite); Cappuccelli & Martinetto, 1972: 251 (discussion of electrophoretic fractioning of homogenates in nymph); Ranque et al., 1974: 329 (pentastomiasis); Mohammed, 1974: 139 (Sierra Leone; in a cat, *Felis catus* [as *Felis domesticus*]); J.H. Greve & Russell, 1974: 52 (nymph in new host, the brown hyaena, *Hyaena brunnea*); Mapp et al., 1976: 198 (roentgen diagnosis of infestation causing porocephalosis in man); Ogunsuri & Mohammed, 1978: 361 (West Africa: nymphs in chimpanzee, *Pan troglodytes troglodytes* [as *Pan troglodites*]); Azingé et al., 1978: 78 (midwest Nigeria: Bendel State: Yogwiri village: near Auch; epidemiology in human hosts); Polderman & Manschot, 1979: 71 (Ghana; in lacrimal caruncle of human hosts); Graber, 1981b: 25 (Central African Republic; in reptilian, *Python sebae*); Graber & Gevrey, 1981: 27 (Congo Republic; in primate, *Cercopithecus nictitans nictitans*); Self, 1982b: 269 (life cycle, serpent hosts); Durden et al., 1985: 5 (USA: Tennessee; in bush-baby, *Otolemur crassicaudatus crassicaudatus* [as *Galago crassicaudatus*], imported from Tanzania); Moens & Tshamala, 1986: 44 (nymphal pentastomiasis in a cat, *Felis catus*); Kagei & Schichiri, 1990: 17 (Africa; nymphs in thick-tailed bush baby, *Otolemur crassicaudatus crassicaudatus* [as *Galago crassicaudatus*]); Guardia et al., 1991: 515 (Canada; encysted nymphs in autopsied tissues of man from Nigeria, causing pentastomiasis); Riley, 1992a: 402, fig. 1a (sex differences); Nzeh et al., 1996: 29 (calcification in abdomen); Meneghi, 1999: 573 (Zambia; in snakes); Lavarde & Fornes, 1999: 1346 (third stage nymphs in dead Congolese); Sacchi et al., 2001: 89 (Italy; in *Bitis rhinoceros* [as *Bitis gabonica rhinoceros*]); Lavrov et al., 2004: 537 (total mtDNA sequence); Dakubo et al., 2006: 166 (larvae encysted in small intestine of man, causing pentastomiasis); Plessis et al., 2007: 928 (infestation in man causing pentastomiasis); Tappe & Büttner, 2009: 1 (human visceral pentastomiasis caused by nymphs); Röhlig et al., 2010: 140, fig. 4d (non-type material, including Uganda, Tanzania, Togo and Kenya, and including host *Neotragus pygmaeus*, deposited in Museum für Naturkunde, Berlin); Tappe et al., 2011: 251 (Gambia, ova in dogs); Jisieike-Onuigbo et al., 2011: 501 (human infection causing pentastomiasis in Nigeria).

Pentastomum euryzonum Diesing, 1850: 611 (juveniles; unnecessary replacement name for *Linguatula diesingii*); Leidy, 1850: 96 (larvae in *Papio ursinus ursinus* [as *Cynocephalus porcarius*]).

Nematoideum hominis (viscerum) Diesing, 1850: 609 (juvenile).

Linguatula constricta; Küchenmeister, 1855b: 21.

Pentastoma constrictum; Bilharz, 1856: 329, pl. 17.

Pentastoma polyzonum Harley, 1857: 115, pl. 47 fig. 3 (type of unknown provenance; in Egyptian cobra, *Naja naja* [as *haje*]); Bell, 1880: 173; 1884: 92.

Pentastomum armillatum; Leuckart, 1860a; Diesing, 1864: 200.

Pentastoma armilata; Wyman, 1863: 179 (in lung of *Python sebae*).

Pentastoma leonis Wedl, 1863: 415 (types from Schönbrunner Menagerie, Austria: Africa; larva in *Panthera leo leo* [as *Felis leo*]).

Pentastomum leonis; Diesing, 1864: 200.

Pentastoma moniliformis; Bassi, 1877: 529 (larvae in panther, *Panthera pardus pardus* [as *Felis pardus*]); 1878: 114.

Pentastoma tornatum; Cobbold, 1879 (larva).

Pentastoma moniliforme; Mégnin, 1880: 443 (*partim*).

Pentastomum polyzonum; Bell, 1880: 173; 1884: 92.

Pentastomum protelis Hoyle, 1883: 188, figs (type possibly from zoo in the UK: South Africa; larva in mesentery of *Proteles cristata*); 1884: 219 (South Africa).

Porocephalus constrictus; Stiles, 1891c: 85.

Porocephalus polyzonys; Stiles, 1891c: 85.

Pentastoma constrictum; Mosler & Peiper, 1894: 6; Chalmers, 1899: 1715 (a case of infection).

Pentastomum diesingi; Shipley, 1898: 52 (larva).

Porocephalus armillatus; Shipley, 1898: 60, fig. 7 (synonym; in lion, *Panthera leo leo* [as *Felis leo*]); Laveran & Pettit, 1909: 1142 (in *Python sebae* infected with haemogregarines); Wilson, 1913: 71 (Nigeria, infection in man); 1915: 420 (infection in man from the tropics); Henry & Joyeux, 1920: 176 (larvae in *Panthera pardus pardus* [as *Felis pardus*] and *Leptailurus serval serval* [as *Felis serval*]); Nattan-Larrier, 1920: 659 (larva in *Phacochoerus africanus africanus* [as *Phacochoerus africanus*]); Monziols & Roy, 1920: 28 (Senegal: in human liver, lungs, peritoneal cavity, and intestinal wall; a grave case of itching followed by death); Noc, 1922: 621 (in *Cricetomys gambianus*; larvae in *Redunca* [as *Cervicapra*] *arundinum*, *Genetta pardina*, *Genetta genetta genetta* [as *Genetta senegalensis*] and *Periodicticus potto potto* [as *Periodictus potto*]); Noc & Curasson, 1920: 656 (evolution and biology; larvae in *Erythrocebus* [as *Cercopithecus*] *patas*); Arnaud & Joyeux, 1921: 25, figs (a vermiform arachnid, parasite of the intestine of man); Noc & Giglioli, 1922: 276 (evolution); Haffner, 1922a: 162 (German east Africa; ovarium); 1922b: 170 (egg development); 1924b: 270 (body muscles); 1924c: 126 (glands); 1924d: 183 (nervous system); 1924e: 285 (spermatocyst); Riding, 1926: 143, figs (Khartoum; a case of porocephaliasis in man); Glover, 1928: 107; J.R.C. Stephens, 1928: 107 (in human); Turnbull, 1928: 84; Curasson, 1929: 255 (larvae in *Acinonyx jubatus jubatus* [as *Cynailurus guttatus*]); Peruzzi, 1929: 1 (pathology); 1930: 278 (valvular apparatus); Palles et Ponderoux, 1934: 51; Low & Cordiner, 1935: 535, figs (West Africa: Nigeria; infesting negro); Heymons & Vitzhum, 1935a: 77, figs 30-32 (distribution: Africa, in lungs of boids and viperids; young in mammal, *Galago senegalensis senegalensis* [as *Galago (Otolicnus) senegalensis*]); Brumpt, 1936: 1103, figs; 1949: 1063 (Belgian Congo: Cameroon; African parasite, adults in lungs of serpents, *Python sebae*, *Python regius*, and *Bitis nasicornis*; frequent in *Bitis gabonica*; larvae found in man and African primates, *Cercopithecus albogularis albogularis* [as *Cercopithecus albogularis*], *Chlorocebus tantulus tantulus* [as *Cercopithecus pousarguei*], *Macacus* sp., in giraffe, antilopes, wild pig, African hedgehog, *Paraechinus aethiopicus aethiopicus* [as *Erinaceus aethiopicus*]); Dopf, 1937: 112 (Dahomey: a case of indigenous pneumonia); Reid & E. Jones, 1963: 169 (larvae in eye of man).

Porocephalus moniliformis; Loos, 1905: 77 (in snake, *Python sebae natalensis* [as *Python natalensis*]); larvae in *Cercopithecus albogularis albogularis* [as *Cercopithecus albogularis*]; Broden & Rodhain, 1908: 493, pl. 43 (in man and monkeys); 1909: 303 (larvae in murid, *Rattus rattus* [as *Mus rattus*], experimental infestation); 1910: 167 (in python); Schäfer, 1912: 109 (Cameroon; larvae in *Cephalophus leucogaster leucogaster* [as *Cephalophus leucogaster*], *Ichneumia albicauda albicauda* [as *Herpestes albicaudus*], *Herpestes naso* [as *Herpestes urva naso*], *Potamochoerus porcus* [as *penicillatus*], and *Sus scrofa scrofa* [as *Sus domesticus*]).

Porocephalus; Weinberg, 1906: 534 (larvae in *Pan troglodytes troglodytes* [as *Anthropopithecus troglodytes*]); Corin, 1914: 502 (larvae in antelope, *Tragelaphus scriptus scriptus* [as *Tragelaphus scriptus*]); Treadgold, 1920: 113 (larvae in *Papio cynocephalus cynocephalus* [as *Papio cynocephalus*]).

Non *Porocephalus constrictus*; Herzog & Hare, 1907: 41 (= *Armillifer moniliformis moniliformis*).

Pentastoma constrictor; Galli-Valerio, 1936: 577.

Linguatula constrictor; Galli-Valerio, 1936: 577.

Nettorhynchus armillatus; Doucet, 1962: 115; 1965: 47.

Nettorhynchus (Armillifer) armillatus; Gretillat & Thiéry, 1960: 305 (Dakar; porocephalosis in cat).

Nerrorhynchus armillatus; Nicoli & Golvan, 1963: 148 (Angola).

Armillifer (Nettorhynchus) armillatus; Challier et al., 1967: 255 (Mali: porocephalosis in bull and pig).

Porocephalus armillifer armillatus; Delorne et al., 1978: 1611 (thoracic calcification in man evoking pentastomosis) (error for *Porocephalus (Armillifer) armillatus*).

Distr.: Africa. Primary hosts: snakes. Intermediate hosts: mammals, including man.

Remarks: The subspecies *Armillifer armillatus intermedius* Heymons, 1940 permits the usage of subspecies *Armillifer armillatus armillatus* (Wyman, 1845) for the present nominal species.

Armillifer armillatus intermedius Heymons, 1940

Armillifer armillatus var. *intermedius* Heymons, 1940c: 212, fig. (Africa: Congo Republic; larva in lung of python, *Python sebae*).

Distr.: Africa. Primary host: snake.

Remarks: Not listed in Poore, 2012a.

Armillifer australis Heymons, 1935

Armillifer moniliformis australis Heymons, 1935: 242 (types in Zoologisches Museum, Hamburg: Australia: Queensland; in *Morelia amethystina* [as *Python amethystinus*]; this species was described and figured, but not named, in Heymons, 1932a: 409).

Armillifer australis Riley & Self, 1981b: 175, fig. 3 (types: Western Australia and Papua New Guinea; in snake, *Morelia amethystina* [as *Liasis amethystinus*]; subjective synonym and primary homonym of *Armillifer moniliformis australis* Heymons; both species declared to be 'clearly the same'); Riley et al., 1985: 48 (Australia: Queensland: Danbulla State Forest, near Atherton; in oesophagus of *Perameles nasuta*); Riley & Spratt, 1987: 145 (Australia: South Australia, from viscera of unknown species of python; Melbourne Zoo; in lung of snake, *Morelia amethystina*; Queensland; in lung of reptile, *Morelia spilota spilota* [as *Morelia spilota*]; Queensland; encysted nymph in body cavity of rodent, *Rattus leucopus* [as *Rattus leucopus cooktownensis*]); Poore & Spratt, 2011 (synonymized with *A. australis* Heymons, 1935); Poore, 2012a: 224 (nomenclature).

Distr.: Australia and Indonesia. Primary host: snakes. Intermediate host: rodent.

Armillifer grandis (Hett, 1915)

Porocephalus grandis Hett, 1915a: 115 (types from Zoological Society Gardens: England: London; in African snakes, *Bitis gabonica*, *Bitis nasicornis*, and *Cerastes cerastes* [as *cornutus*]); Sambon, 1922b: 398.

Armillifer grandis; Sambon, 1922a: 188; Heymons, 1935: 239, fig. 140 (diagnosis); 1940c: 215 (in *Bitis nasicornis*); Heymons & Vitzhum, 1935a: 81; Fain, 1961: 84, figs (Central Africa); 1975: 62 (Zaire; nymphs in man; adults in lungs of *Bitis nasicornis*); Fain & Salvo, 1966: 675, fig. (Congo Republic: Province of Cuvette: Ingende and Bolomba; nymph in man); Cagnard et al., 1979: 345 (lethal pentastomiasis); Riley, 1992a: 402 (sex differences); Ette et al., 2003: 52 (West Ivory Coast: Abidjan; nymphs in lungs of woman); Tappe & Büttner, 2009: 1 (human visceral pentastomiasis caused by nymphs); Röhlig et al., 2010: 142 (non-type material, including Uganda, deposited in Museum für Naturkunde, Berlin).

Distr.: Africa. Primary hosts: snakes. Intermediate host: man.

Armillifer mazzai (Sambon, 1922)

Pentastomum moniliforme; Mazza, 1892: 54, figs.

Waddycephalus mazzai Sambon, 1922b: 400 (type: bibliographic reference to Massa's 1892 description of material misidentified as *Pentastoma moniliforme* Diesing, 1836, apparently new for New Guinea).

Ligamifer mazzai; Heymons, 1932a: 416 (New Guinea); 1935: 244, fig. 142 (diagnosis); 1941a: 326, figs 2-3 (Australia: North Queensland: Cairns; in native cat, *Dasyurus* sp.); Heymons & Vitzhum, 1935a: 93 (distribution: New Guinea, and west Asia: Hong Kong).

Ligamifer mazzi; Riley, 1992a: 407, fig. 2b-d (copulation).

Armillifer mazzai; Riley & Self, 1981b: 176 (Australia; in Macleay's water snake, *Pseudoferrania* [as *Enhydryis*] *polylepis*; New Guinea; in lungs of *Morelia amethystina* [as *Liasis amethystinus*]; new combination, transferred from *Ligamifer*); Röhlig et al., 2010: 142, fig. 4f (non-type material deposited in Museum für Naturkunde, Berlin).

Distr.: Australian region. Primary hosts: snakes.

Armillifer moniliformis (Diesing, 1836)

Pentastoma moniliforme Diesing, 1836: 22, pl. 4 figs 11-12 (type: locality not stated; in *Python molurus*); Dujardin, 1845: 308 (in *Python molurus* [as *tigris*]); Gottheil, 1889: 42 (a rare parasite).

Pentastomum tornatum Creplin, 1849: 52 (*partim*; juvenile).

Pentastomum moniliforme; Diesing, 1850: 609; Mazza, 1892: 54 (anatomy); Sambon, 1922b: 399.

Pentastoma wedlii Cobbold, 1866: 23 (types from the Museum of the Royal College of Surgeons, London: Southeastern Asia; in flat-headed cat *Prionailurus* [as *Felis*] *planiceps*); 1867: 281; Sambon, 1922b: 414 (synonymized with *A. moniliformis*).

Pentastoma aonyxis MacAlister, 1877: 66 (types: Pakistan: Indus River; juvenile in *Lutra lutra lutra* [as *Lutra nair*]); Sambon, 1922b: 414, fig. 21 (synonymized with *A. moniliformis*).

Not *Pentastoma moniliformis*; Bassi, 1877, 1888 (= *Armillifer armillatus*).

Linguatule moniliforme; Mégnin, 1880; 443 (p.p.).

Not *Pentastoma moniliforme*; Méguin, 1880: 443 (p.p. = *Porocephalus clavatus*; p.p. = *Armillifer armillatus*).

Porocephalus moniliformis; Shipley, 1898: 72, fig. 17 (in snake, *Broghammerus* [as *Python*] *reticulatus*); 1905: 250; 1910: 276; Jonge, 1906: 524; Ouwens, 1906: 37 (Africa); Salm, 1907a: 464; 1907b: 11 (larvae in *Panthera tigris tigris* [as *Felis tigris*], and in man; Seiffert, 1908: 320 (Cameroon); 1910a: 101; 1910b: 506 (Cameroon); Waldow, 1908: 321; 1910: 101 (Cameroon: in black man); Sambon, 1909: 79 (Upper Congo; nymph in man and monkeys); Bugnion, 1910: 467, figs (in python); Mouchet, 1914: 497 (Cameroon); Prowazek, 1918: 465 (haemogregarins); Hett, 1921: 163 (India: Calcutta; larvae in stomach of *Tragus javanicus*); 1924a: 149 (adult in lung of *Python sebae*; larvae in *Proteles cristata*, *Loris* [as *Nycticebus*] *tardigradus*, and *Prionailurus viverrinus* [as *Felis viverrina*]); Heymons, 1922: 156, figs; Haffner, 1924b: 270 (body musculature); 1924e: 285 (male; general organization); Brumpt, 1936: 1106; 1949: 1064 (Java, Philippines, in man; Madagascar, larvae in serpent, *Acrantophis madagascariensis*; synthesis; adults in lungs of serpents, *Python molurus*, *Broghammerus* [as *Python*] *reticulatus*; nymphs in monkeys of Asia, *Macaca fascicularis fascicularis* [as *Macacus cynomolgus*]); Kozłowski et al., 1958: 755 (Madagascar: generalized porocephalosis caused by nymphs in monkeys); Brygoo, 1963: 195; Fain, 1975: 61 (review of occurrence in man); Rego, 1987: 73, figs 1-2; Riley, 1992a: 402 (sex differences).

Porocephalus aonycis; Shipley, 1898: 59, fig. 6 (juvenile in otter, *Aonyx cinerea cinerea* [as *Aonyx leptonyx*]).

Not *Porocephalus moniliformis*; Loos, 1905: 77; Füllerborn, 1908, 1909, 1910; Schäfer, 1912 (= *Armillifer armillatus*).

Pentastomum constrictum; Herzog & Hare, 1907: 41 (juvenile; Philippines: in native Filipino).

Armillifer moniliformis; Sambon, 1922a: 202, figs (larvae in *Macaca fascicularis fascicularis* [as *Macaca irus*] and *Macaca mulatta*); Southwell, 1924: 749 (larvae in Philippine palm civet cat, *Paradoxurus hermaphrodites philippinensis* [as *Paradoxus philippinensis*]); Hett, 1924a: 148 (in *Python sebae*, from Oxford Museum; larvae in carnivore, *Proteles cristata* [as *Protelis cristatus*]); Faust, 1927a: 311, fig. (China; nymph from liver of Tibetan; records from man: Manila; Djambi, Sumatra; China, Tibet, hepatic infection; young stages in *Prionailurus* [as *Felis*] *planiceps*, and "*Viverricola malaccensis*"); Heymons, 1930: 193 (Java; in lung of king python); 1932a: 418, fig. 8 (distribution: known from East-Indies, Ceylon, Sunda Island, Philippines and China; in snakes *Morelia* [as *Python*] *amethystinus*, *Tropidonophis* [as *Tropidonotus*] *picturatus*, and *Morelia spilota spilota* [as *Python spilotes*]); 1935: 241, fig. 61 (diagnosis); Hill, 1935a: 118, pls 36-39; Heymons & Vitzhum, 1935a: 86, fig. 35 (distribution: Indo-Malaysian and Australian regions; Middle and West-Africa; young stages in *Panthera pardus pardus* [as *Felis pardus*], *Prionailurus* [as *Felis*] *planiceps*, *Panthera tigris tigris* [as *Felis tigris*], *Lutra lutra lutra* [as *Lutra nair*], *Loris tardigradus*, *Macaca fascicularis fascicularis* [as *Macaca irus*], *Macaca mulatta*, *Herpestes javanicus javanicus* [as *Mungos javanicus*], *Macaca nemestrina* [as *Nemestrinus nemestrinus*], *Nycticebus coucang coucang* [as *Nycticebus coucang*], *Loris* [as *Paradoxurus*] *tardigradus*, and *Viverra zibetha zibetha* [as *Viverra zibetha*]); Yutuc, 1954: 119, figs (nymphs in domestic cat); Boch, 1957: 424 (pentastomiasis in rhesus monkeys, *Macaca mulatta* [as *Macacus*]).

rhesus]); Kozłowski et al., 1958: 755 (nymphs causing generalized porocephalosis in monkey, *Macaca fascicularis fascicularis* [as *Macacus cynomolgus*]); Fain, 1961: 88, fig. (Central Africa); Stabler & Self, 1967: 923 (nymphs in the bear cat, *Arctictis binturong binturong* [as *Arctictis binturong*]); Wong & Conrad, 1978: 412 (in Asian macaques, *Macaca*); Riley & Self, 1981b: 173, figs 1-2 (redescription); Chooi et al., 1982: 41 (Malaysia; nymphs in cat, *Felis catus*); Lee et al., 1986: 195 (Malaysia; nymphs in Malayan tapir, *Tapirus indicus indicus* [as *Tapirus indicus*]); Singh et al., 1987: 349 (Malaysia: Johore: Ulu Endau; in mammal, *Tupaia glis*); Sani, 1987: 83 (Malaysia; in *Felis catus*); Riley & Spratt, 1987: 139 (Australia; in rodent, *Rattus leucopus*); Rego, 1987: 72 (in snake); Rompaey, 1988: 37 (USA; in mammal binturong, *Arctictis binturong binturong* [as *Arctictis binturong*]); Cheah et al., 1989: 139 (Malaysia; in smooth otter, *Lutrogale perspicillata perspicillata* [as *Lutra perspicillata*]); C.P. Qiu et al., 2004: 273 (China; case report of infected boy); Pan et al., 2005: 262 (China; case report of heavy infection); Syed-Arnez & Mohd Zain, 2006: 19 (Malaysia: Johor: Endau Rompin National Park; endoparasite of wild rats); Tappe & Büttner, 2009: 1 (human visceral pentastomiasis caused by nymphs); Röhlig et al., 2010: 143 (non-type material, including Java, deposited in Museum für Naturkunde, Berlin); Latif et al., 2011: 878 (Borneo, nymphs causing visceral pentastomiasis in aboriginal farmer).

Moniliformis moniliformis; Dulac & Ralaimkhoatra, 1962: 159 (Madagascar; first case of human parasitization).

Not *Armillifer moniliformis*; Silva & Barbosa Jr., 1984: 139 (Brazil: State of Bahia; pentastomiasis in rodent, *Necromys lasiurus* [as *Zygodontomys pixuna*] (= *Porocephalus crotali*)).

Distr.: Africa, Indo-Malayan, and Australasian regions. Primary hosts: snakes. Intermediate hosts: mammals, including man, and snakes.

Remarks: The subspecies *Armillifer moniliformis heymonsi* Sambon, 1922 has occasioned the usage of subspecies *Armillifer moniliformis moniliformis* (Diesing, 1836) for the present nominal species (see below).

Armillifer moniliformis heymonsi Sambon, 1922

Armillifer moniliformis var. *heymonsi* Sambon, 1922b: 417 (types: locality not specified, from *Broghammerus* [as *Python*] *reticulatus*]); Tubangui, 1924: 749, fig. 1 (Philippine Islands; in palm civet cat, *Paradoxurus hermaphrodites philippinensis* [as *Paradoxurus philippensis*]); Yutuc, 1954: 119, figs 1-4 (Philippines: Quezon City, in lungs of native cat); Röhlig et al., 2010: 143 (non-type material deposited in Museum für Naturkunde, Berlin); Poore, 2012a: 224 (listed as synonym of *A. moniliformis*, but status of subspecies not investigated).

Armillifer moniliformis heymonsi; Kugi, 1977: 152 (from the reticulated python, *Broghammerus* [as *Python*] *reticulatus*]); Kikuchi et al., 1979: 226 (Thailand; Philippine Islands; morphology; in lung of reticulated python, *Broghammerus* [as *Python*] *reticulatus*); Poore, 2012a: 224 (included as a junior synonym of *A. moniliformis*, but the status of the subspecies has not been investigated).

Distr.: Southeast Asia. Primary host: snake. Intermediate host: felid.

Remarks: The status of the subspecies has not been investigated (Poore, 2012a: 224).

Armillifer moniliformis moniliformis (Diesing, 1836)

Armillifer moniliformis moniliformis; Fernando, 1953: 155, figs 1-3 (Ceylon: Eastern Province: Kethiraveli; male from sloth bear, *Melursus ursinus ursinus* [as *Melursus ursinus*]; nymph from liver); Paramanathan, 1961: 8 (nymphs in civet cats and wild boar); 1962: 23, figs (Ceylon; nymph in civet cats and wild boar).

Armillifer yoshidai Kishida, 1928

Armillifer yoshidai Kishida, 1928: 397, figs (type: Japan: Osaka: Ten-noji Zoological Park; in lungs of *Python molurus*).

Distr.: Japan. Primary host: snake.

Cubirea Kishida, 1928

Cubirea Kishida, 1928: 400 (placed in *Armilliferinae*); Nicoli, 1963: 502; Self, 1969: 77. *Cuberia*; Poore, 2012a: 225 (erroneous spelling).

Type-species, by original designation: *Pentastoma annulatum* W. Baird, 1853.

Cubirea annulata (W. Baird, 1853)

Pentastoma annulatum W. Baird, 1853a: 113 (type from Natural History Museum, London: Egypt; in lungs of Egyptian cobra, *Naja naja* [as *haje*]); 1853b: 22, pl. 30, fig. 7; Poore, 2012a: 225 (discussion of priority).

Pentastoma multicinctum Harley, 1857: 115, pls 46, 47 (types: Egypt; in lung of Egyptian cobra, *Naja naja* [as *hage*]; synonymized by Shipley, 1898, but possibly earlier); Lohrmann, 1889: 303 (nymphs in water-hen, *Porphyrio* sp.).

Pent[astomum] najae Leuckart, 1860a: 32 (types not designated; larvae encysted in snake, *Naja sputatrix* [as *Naja tripudians sputatrix*]).

Pent[astomum] najae-sputatrix Leuckart, 1860a: 157 (types: no locality given, from the cobra *Naja naja*); Diesing, 1864: 335 (doubtfully synonymised with *P. multicinctum*); Shipley, 1898: 73, fig. 18; Sambon, 1922b: 400; Heymons, 1935: 250 (as *species incertae*); Brumpt, 1949: 1065 (India; larva in man).

Porocephalus najae-sputatrix; Shipley, 1898: 73, fig. 18; Brumpt, 1949: 1065.

Pentastoma annulosum Stiles, 1891b: 85, figs (erroneous spelling for *annulata*).

Porocephalus annulosus; Stiles, 1891b: 85 (erroneous spelling for *annulatus*).

Porocephalus annulatus; Shipley, 1898: 58, fig. 5 (synonymy; larvae in crane, *Grus virgo*).

Pentastomum naie; Sambon, 1922b: 418 (an unjustified emendation of *Porocephalus najae-sputatrix*).

Armillifer annulatus; Sambon, 1922a: 202, figs 19-20 (in *Naja melanoleuca*, black cobra, *Naja nigricollis*, gaboon puff-adder, *Bitis gabonica*, and rhinoceros viper, *Bitis nasicornis*); Hett, 1924a: 146; Heymons, 1935: 239, fig. 3 (diagnosis); 1940c: 210 (in *Naja naja* [as *haje*], and *Psammodphis sibilans*); Heymons & Vitzhum, 1935a: 82, fig. 33 (distribution: Africa, in lungs of elapids and viperids).

Cubirea annulata; Kishida, 1928: 400 (new combination for *Pentastomum annulatum*).

Cubirea armulata; Self, 1969: 77 (misspelling).

Cubirea annulatus; Röhlig et al., 2010: 143 (non-type material, including one female specimen received from the British Museum, London, from Chinguar, Bié Province, Angola, from cobra *Naja anchietae*, deposited in Museum für Naturkunde, Berlin)

Pentastomum najaesputatricis; Poore, 2012a: 225 (spelling of species name, as a synonym of *Cubirea annulata*).

Cuberia annulata; Poore, 2012a: 225 (erroneous spelling).

Distr.: Africa. Primary hosts: snakes. Intermediate host: bird.

Cubirea pomeroyi (Woodland, 1921)

Porocephalus pomeroyi Woodland, 1921: 337, fig. (types: Africa: Nigeria: Ilaro; in gut of Nigerian cobra, *Naja* [as *Naia*] *nigricolis*); 1923: 39, figs; Sambon, 1922b: 410, fig. 18.

Armillifer pomeroyi; Hett, 1924a: 147; 1924b: 161 (Africa; in lungs of *Naja melanoleuca*); Heymons, 1935: 240, fig. 4; 1940c: 210 (in *Grus* [as *Anthropoides virgo*]); Heymons & Vitzhum, 1935a: 85, fig. 34 (distribution; in *Naja melanoleuca*); Self & Kuntz, 1957: 196 (Sudan: Bahr El Ghazal Province: Tonj District; in lung of golden or Egyptian cobra, *Naja naja* [as *haje*]; British Solomon Islands: Florida Island; in reptile, *Acrochordus granu-latus*); Trotti & Trentini, 2000 (Italy; in *Broghammerus* [as *Python*] *reticulatus*).

Cubirea pomeroyi; Kishida, 1928; Fain, 1961: 90, figs (Central Africa); Riley, 1992a: 402 (sex differences); Röhlig et al., 2010: 144, fig. 4f (non-type material deposited in Museum für Naturkunde, Berlin).

Cuberia pommeroyi; Poore, 2012a: 225 (erroneous spelling).

Distr.: Africa. Primary hosts: snakes. Intermediate host: bird.

POROCEPHALINAE Sambon, 1922

Pentastomidae Shipley, 1909: 488.

Porocephalinae Sambon, 1922b: 190 (with three sections, Sebekini, Porocephalini, and Linguatulini); Heymons, 1935: 227 (diagnosis).

Porocephalidae; Kishida, 1928: 400 (introduced as a 'nov. fam.', diagnosis).

Porocephalini Sambon, 1922b: 405 (type: *Porocephalus* Humboldt, 1812; used as Section or Subfamily).

Parasambonia Stunkard & Gandal, 1968

Parasambonia Stunkard & Gandal, 1968: 50; Riley & Self, 1982: 129 (diagnostic character; fulchrum); Almeida & Christoffersen, 1999: 701 (referred to Porocephalidae, from Sambonidae).

Type-species, by original designation: *Parasambonia bridgesi* Stunkard & Gandal, 1968.

Unidentified species: *Parasambonia* sp. a and b Riley & Spratt, 1987: 142 (Australia; New South Wales: Bowral; in reptile, *Austrelaps superbus*; Mogo; in reptiles, *Cryptophis nigriscens*, and *Pseudechis*).

Parasambonia bridgesi Stunkard & Gandal, 1968

Parasambonia bridgesi Stunkard & Gandal, 1968: 50, figs 1-6 (types from New York Zoological Park: Australia: Victoria; in lungs of snake, *Pseudechis porphyriacus porphyriacus* [as *Pseudechis porphyriacus*]); Riley & Self, 1982: 128, figs 1-3, 6 (Australia: Sydney, Queensland, and Mount Nebo, south Queensland, in *Pseudechis porphyriacus porphyriacus* [as *Pseudechis porphyriacus*], and *Tropidechis carinatus*; Mount Glorius, Queensland, in *Demansia psammophis psammophis* [as *Demansia psammophis*]; description); Riley & Spratt, 1987: 142 (Australia: Victoria: Healesville Sanctuary, in lung of snake, *Pseudechis porphyriacus porphyriacus* [as *Pseudechis porphyriacus*]; frontal gland; male first time description).

Distr.: Australia. Primary hosts: snakes.

Parasambonia minor Riley & Self, 1982

Parasambonia minor Riley & Self, 1982: 128, figs 4, 5 (type: locality unknown, in Australian copperhead snake, *Austrelaps superbus*).

Distr.: Australia. Primary host: snake.

Porocephalus Humboldt, 1812

'Echinorynchus' Humboldt, 1808; 75; 1849: 266.

Porocephalus Humboldt, 1812: 266, 300; Lamarck, 1845: 200; Mayer, 1851: 130; Raebigher, 1910: 170 (Cameroon; porocephaliasis in man); Füllerborn, 1914: 297 (development); 1919a: 5 (development and pathology); 1919b (causing pathology); M. Blanchard, 1914: 501 (larvae on corpses); Sambon, 1922a: 196, fig. (species descriptions, synonyms); Daukes, 1923: 8 (Gold Coast: heavy infestation of larvae in hedgehog); Fornara, 1924: 233 (location of larva); Thiel, 1926: 585 (porocephalus); 1927: 208 (list); Currasson, 1929: 255 (new hosts); M.A.N. Rao & Madular, 1932: 10 (larvae in muscle of fresh water fish); Rodhain & Vuylsteke, 1932: 1 (Africa; in crocodiles); Schouten, 1933: 40 (porocephalan); Low et al., 1935: 535 (West Africa; infection in negro); Heymons, 1935: 229 (diagnosis); Heymons & Vitzhum, 1935a: 64; Schilling, 1937: 303 (infection in European); Bergue, 1939: 39 (development of porocephalans); Noosten, 1941: 148 (in pythons); Lechner, 1965: 488 (human infection); Riley & Self, 1979: 25 (general account of species); Rego, 1983c: 219 (tropical America; in boid and viperid hosts); 1984a: 47 (diagnosis); 1984b: 393 (identification of larvae); Schwab, 1985: 14 (USA: Virginia: the Grat Dismal swamp; in the northern copperhead snake, *Agkistrodon contortrix mokasen*); Frederickson et al., 1985: 209 (nymph morphology from brain of squirrel monkey, *Saimiri sciureus sciureus* [as *Saimiri sciureus*]); Lok & Kirkpatrick, 1987: 494 (in monkey, *Macaca fascicularis fascicularis* [as *Macaca fascicularis*]); Shen et al., 1988: 26 (China; infection in tamarin, *Saguinus mystax mystax* [as *Saguinus mystax*]); M.H. Qiu et al., 2005: 69 (China: Taiwan; new species and pathogenic features); Reavill, 2005: 1 (reptile clinical pathology).

Polystoma (*Pentastoma*) Rudolphi, 1812: 106 (type-species, by monotypy: *Polystoma proboscideum* Rudolphi, 1812).

Pentastoma; Rudolphi, 1819: 123; Diesing, 1836; Dujardin, 1845: 299.

Pentastomum; Creplin, 1849: 54 (incorrect subsequent spelling of *Pentastoma*); Diesing, 1856: 31; Küchenmeister, 1857a: 29 (metamorphosis); Sambon, 1922b: 399; Ahmad 1962: 109 (east Pakistan); Poore, 2012a: 226 (discussion of convoluted history of *Pentastomum* and *Pentastoma* and priorities).

Porocephalus (*Pentastomum*); Füllerborn, 1908: 169 (in organs of west African black).

Type-species: *Porocephalus crotali* Humboldt, 1812, by monotypy.

Unidentified species: *Pentastoma* sp.; Krefft, 1871: 214 (in gecko, *Ctenotus taeniolatus* [as *Lygosoma taeniolatum*]). *Porocephalus* sp.; Sambon, 1910b: 17 (porocephaliasis in man); J.W.T. Thomas, 1920: 154 (in hernial sac); Narayan et al., 1932: 10 (larva in muscle of freshwater fish); Heymons & Vitzhum, 1935a (in mustelid, *Pteronura brasiliensis brasiliensis* [as *Pteronura brasiliensis*]); Heymons, 1939a: 687, figs; Rego, 1984a: 51 (in *Leontopithecus rosalia*, *Saguinus* sp., *Bothropoides* [as *Bothrops*] *jararaca*, and *Bothrops* sp.); F.A. Martínez et al., 2000: 1 (Argentina; in snakes); Pereira et al., 2010: 358 (Brazil: Pará: Ananindeua; fatal infections in lungs and aorta of neotropical primate *Pithecia irrorata*); Pantchev & Tappe, 2011: 528 (pentastomiasis in China provoked by snake infection); Britoi et al., 2012: 394 (Brazil: State of Mato Grosso do Sul: Corumbá; in lung of *Crotalus durissus durissus* [as *Crotalus durissus*]; unknown locality, from coelomic cavity of *Boa constrictor amarali*). *Pentastomum* sp.; Sambon, 1922b: 423 (in lizards, *Diplodactylus vittatus*, and *Ctenotus taeniolatus* [as *Lygosoma taeniolatum*]).

Porocephalus basiliscus Riley & Self, 1979

Porocephalus basiliscus Riley & Self, 1979: 30, fig. (types: Mexico; in snake, *Crotalus* sp.).

Porocephalus basilicus; Poore, 2012: 227 (wrong spelling).

Distr.: Mexico. Primary host: rattlesnakes.

Porocephalus benoiti Fain, 1960

Porocephalus benoiti Fain, 1960b: 118 (types: 'Belfian Congo': Katanga; female in *Naja* sp.); 1961: 65, figs (Congo Republic: Upper Lwiswishi, near highway Kasenga-Katanga; in intestine of serpent, *Naja*; types from Congo Museum, at Tervuren).

Distr.: Democratic Republic of the Congo. Primary host: cobras.

Porocephalus clavatus (Wyman, 1845)

Pentastoma proboscideum; Diesing, 1836 (*partim*; in snakes, *Boa constrictor constrictor* [as *constrictor*], and *Eunectes murinus* [as *scytale*]).

Linguatula clavata Wyman, 1845: 296 (types: from the 'South American Boa'); 1848: 59.

Linguatula proboscidea; Beneden, 1848a: 89 (in a *Boa*); E. Blanchard, 1850b: 646 (in *Boa constrictor constrictor* [as *constrictor*]).

Pentastomum proboscideum; Diesing, 1850: 609 (*partim*); Leidy, 1850: 96; Filippi, 1861: 18 (in snake, *Epicrates angulifer* [as *Boa brachyura*]).

Pentastomum didelphidis virginianae Leidy, 1850: 98 (types: USA; nymph in marsupial, *Didelphis virginiana virginiana* [as *Didelphis virginiana*]).

Pentastomum subcylindricum; Leidy, 1856: 42 (larva); Stiles, 1891b (larva in snakes, *Natrix* [as *Tropidonotus*] *natrix*, and *Vipera berus* [as *serus*]; in murid, *Mus* (*Mus*) *musculus musculus* [as *Mus musculus*]).

Pentastomum clavatum; Leuckart, 1860a.

Pentastoma imperatoris MacAlister, 1877: 65 (types: South America; in snake, *Boa constrictor imperator* [as *Boa imperator*]).

Pentastoma moniliforme; Mégnin, 1880: 452 (*partim*) (p.p. = *Armillifer armillatus*).

Not *Pentastomum clavatum* Lohrmann, 1889: 303 (= *Sambonia clavata*).

Porocephalus crotali; Shipley, 1898: 52 (*partim*).

Porocephalus clavatus; Shipley, 1898: 64 (in lungs of *Varanus niloticus*); Sambon, 1912: 371 (Central and South America, adults in common boa, *Boa constrictor constrictor* [as *constrictor*], and emperor boa, *Boa constrictor imperator* [as *Boa imperator*]; nymphs in Virginian opossum, *Didelphis virginiana virginiana* [as *Didelphys virginiana*], *Marmosa murina*, and philander opossum, *Caluromys* (*Caluromys*) *philander philander* [as *Philander philander*]); 1922: 422 (in *Mus* (*Mus*) *musculus musculus* [as *Mus musculus*]); Southwell, 1924: 515 (in snake, *Causus* [as *Bitis*] *rhombeatus*; maybe = *P. subulifer*); Giglioli, 1927a: 33 (in snake, *Epicrates cenchria cenchria* [as *Epicrates cenchris*]; larvae in *Saimiri sciureus sciureus* [as *Callitrix sciurea*]); 1927b: 260 (morphology of egg and embryo; American boids and serpents of genus *Lachesis*); Haffner, 1927: 361 (Brazil: Pernambuco: Recife: Dois Irmãos; in *Marmosa murina* [as *Marmosa murina parata*], *Boa constrictor*, *Boa constrictor imperator* [as *Boa imperator*], *Didelphis virginiana virginiana* [as *Didelphys virginiana*], and *Caluromys* (*Caluromys*) *philander philander* [as *Caluromys philander*]); 1927b: 361; Heymons, 1935: 230, fig. 136 (diagnosis; in lungs of *Boa constrictor*, *Boa constrictor imperator* [as *Boa imperator*], *Epicrates angulifer*, *Epicrates cenchria cenchria* [as *Epicrates cenchris*], *Epicrates crassus*, and *Eunectes murinus*); Heymons & Vitzhum, 1935a: 67, fig. 28 (distribution: South America, in lungs of boid snake, *Eunectes murinus*; young stages in lizard, *Dracaena guianensis*); Pinto, 1938: 50, figs; Fonseca, 1938: 157 (evolutionary cycle in Guinea pigs); 1939: 185 (Brazil: São Paulo: Butantan; in Guinea pigs); Berghe, 1939: 39, figs; M. Vargas V., 1970a: 241 (Costa Rica: Limón: La Fortuna; in *Coniophanes imperialis* [as *Boa constrictor imperialis*]; morphology of egg and nymphal stages); 1970b: 27 (morphology of nymphs); Rego, 1984b: 393, pl. 3 fig. 4 larvae in mammals, *Caluromys* (*Caluromys*) *philander philander* [as *Caluromys philander*], *Didelphis* sp., and *Saimiri sciureus sciureus* [as *Callitrix sciurea*]); D.A.C. Jones et al., 1991: 61 (frontal gland proteins); Manna & Dutta, 1992: 87 (India: West Bengal; in reptile, *Calotes versicolor*); Lia et al., 2000: 63 (Italy: Puglia; in *Boa constrictor*; Foldener et al., 2008: 443 (pentastomiasis in *Boa constrictor*, imported from Colombia); Röhlig et al., 2010: 144 (non-type material, including 2 specimens from Trinidad, in *Bothrops atrox*, and several specimens from Berlin Aquarium with identification of host as *Python molurus* most certainly misidentified, probably from a *Boa*, deposited in Museum für Naturkunde, Berlin); Gomez-Puerta et al., 2011: 379 (Peru: Departamento Loreto: Nayta; in lungs of boid snakes *Boa constrictor*, and *Epicrates cenchria cenchria* [as *Epicrates cenchria*]).

Distr.: Americas. Primary hosts: snakes and lizard. Intermediate hosts: lizard and mammals.

Remarks: Most authors treat *Pentastoma subcylindricum* Diesing, 1836 as a junior synonym of *P. crotali* (Humboldt, 1808). Heymons & Vitzhum (1936: 67) believe that at least the larva belongs to *P. clavatus*, but this could only be fixed by lectotype designation to avoid it being potentially a senior name to *P. clavatus*.

Porocephalus crocidurae Parona, 1890, *species incertae*

Pentastomum crocidurae Parona, 1890: 71, pl. 3 figs 1-4 (type: Burma; parasite of sooty shrew, *Crocidura fuliginosa fuliginosa* [as *Crocidura fuliginosa*]); Sambon, 1922b: 400, fig. 13; Heymons, 1935: 250, fig. 148 (diagnosis; as *species incertae*); Poore, 2012a: 213 (genus unassigned).

Porocephalus crocidura; Shipley, 1898: 52 (misprint for *P. crocidurae*).

Pentastoma crocidurae; Braun, 1908 (apud Sambon, 1922b: 400).

Distr.: Burma. Primary host?: mammal.

Remarks: Sambon (1922) and Heymons (1935) could not assign this species to a genus. We follow the previous placement of Shipley (1898).

Porocephalus crotali (Humboldt, 1812)

Porocephalus crotali Humboldt, 1812: 301, pl. 26, figs 1-4 (type: Venezuela: Cumana; in *Crotalus durissus durissus* [as *Crotalus durissus*]); Shipley, 1898: 65, fig. 11 (synonym; p.p. = *P. stilesi*; adults in *Mastigodryas bifossatus bifossatus* [as *Drymobius bifossatus*], *Crotalus durissus durissus* [as *Crotalus adamanteus*], *Crotalus horridus*, *Xenodon merremii* [as *Ophis merrimi*], *Python molurus*, *Spilotes pullatus pullatus* [as *Spilotes pullatus*], "*Urocrotalon catesbyanum*", and *Ptyas korros* [as *Zamenis koros*]); 1905: 249 (synonymy); Faria & Travassos, 1913a: 126 (Brazil: São Paulo; northwest highway and Butantan Institute, in three species of snakes, *Bothrops* [as *Lachesis*] *lanceolatus*, *Crotalus horridus*, and *Spilotes pullatus pullatus* [as *Spilotes pullatus*]; Sambon, 1922a: 197 (hosts: *Boa constrictor*, *Boa constrictor imperator* [as *Boa imperator*], *Crotalus durissus durissus* [as *Crotalus durissus*]; nymphs in *Didelphis virginiana virginiana* [as *Didelphys virginiana*], and *Caluromys (Caluromys) philander philander* [as *Caluromys philander*]); Hett, 1924a: 141 (in *Crotalus durissus durissus* [as *Crotalus adamanteus*], *Crotalus atrox*, and *Crotalus horridus*); Heymons, 1935: 229 (diagnosis; in *Crotalus durissus terrificus* [as *Crotalus terrificus*]; larvae in mammals, *Pteronura brasiliensis brasiliensis* [as *Pteronura brasiliensis*], *Wiedomys pyrrhorhinos* [as *Rhipidomys pyrrhorhinus*], and *Leontopithecus* [as *Mystax*] *chrysopygus*); Heymons & Vitzthum, 1935a: 65 (distribution: South America: Brazil; lung of *Crotalus durissus durissus* [as *Crotalus durissus*]; in reptiles: monitor, *Tupinambis teguixin* [as *Podinema teguixin*], in lung of *Boa constrictor*, in abdomen of *Bothropoides* [as *Bothrops*] *jararaca* in lung and abdomen of *Crotalus horridus*; in lung of *Eunectes murinus* [as *scytale*]; in tracheae of *Xenodon* [as *Ophis*] *merremii*; in lung of *Spilotes pullatus pullatus* [as *Spilotes pullatus*]; Bolivia; young in marsupials, edentates, rodents, carnivores and simians); Penn, 1940: 125 (life cycle); 1942: 277 (Louisiana; muskrat); Penn & Martin, 1941: 13 (in Louisiana muskrat); Brues, 1942: 112 (Florida: Indian River County: Fellsmere: St. Johns river marsh; in water moccasin, *Agkistrodon piscivorus*); Keegan, 1943b: 54 (USA: Louisiana; from cotton-mouth moccasin, *Agkistrodon piscivorus*); Self, 1947: 18 (USA: Oklahoma; in rattlesnakes); 1951b: 255, fig. 1 (auxiliary hooks); Esslinger, 1960: 5 (development in intermediate hosts); 1962a: 631 (hepatic lesions in rats); 1962b: 452, figs (USA: Louisiana: New Orleans, in lungs of cottonmouth water moccasins, *Agkistrodon piscivorus*; development); 1962c: 457, figs 1-8 (USA: Louisiana: New Orleans, in lungs of water moccasin, *Agkistrodon piscivorus*; egg and larva; hepatic lesions in rats); Self & McMurry, 1948: 21, figs 1-4 (USA: Oklahoma; in rattlesnakes, *Crotalus atrox* and *Crotalus horri-*

dus); Self & Kuntz, 1967: 202, figs; Layne, 1967: 105 (Florida; incidence in mammals); Forrester et al., 1970: 977 (South Carolina); Rego & Vicente, 1972: 65 (Brazil; in mammals); Rodrick, 1974: 1022 (ontogeny of lactate dehydrogenase); 1976: 325 (ontogeny of lactate-dehydrogenase); Kinsella, 1974: 116 (USA: Florida salt marsh; in rice rat, *Oryzomys palustris*); Trainer et al., 1975: 753, figs 1-5 (USA: Oklahoma: Blaine and Comanche counties, in western diamondback rattlesnakes, *Crotalus atrox*; cuticle ultrastructure, with phylogenetic implications); Hollis, 1979a: 461 (enzymes, demonstration of alkaline-phosphatase activity); 1979b: 114 (nervous system); Rego, 1980: 783 (in mammalian hosts; from Oswaldo Cruz Institute); 1983b: 234, fig. 1 (larvae in mammals *Marmosa murina* [as *Marmosa murina parata*], *Micoureus paraguayanus travassosi* [as *Marmosa cinerea*], *Chironectes minimus minimus* [as *Chironectes minimus*], *Philander opossum opussum* [as *Philander opossum*], *Phyllostomus discolor discolor* [as *Phyllostoma discolor*], *Dasypus novemcinctus novemcinctus* [as *Dasypus novemcinctus*], *Wiedomys pyrrhorhinos* [as *Oryzomys pirrhorhinus*], *Thaptomys nigrita* [as *Akodon fuliginosus* and *Akodon nigrita*], *Procyon cancrivorus cancrivorus* [as *Procyon cancrivorus*], *Pteronura brasiliensis brasiliensis* [as *Pteronura brasiliensis*], *Nasua narica narica* [as *Nasua narica*], and *Saguinus* sp.); Wolfe, 1982: 3 (in marsh rice rat, *Oryzomys palustris*); Riley, 1981: 127 (USA: Oklahoma: Comanche County, in the Western Diamondback rattlesnake, *Crotalus atrox*; experimental investigation of development); 1992a: 402, figs 1c, 2a (sex differences; copulation); 1992b: 133 (excretory products); F.A. Martínez, 1982: 74 (Argentina; nymphs in edentates, *Chaetophractus vellerosus vellerosus* [as *Chaetophractus vellerosus*] and *Tolypeutes matacus* [as *mataco*]); Dettlerline et al., 1984: 137 (USA: Alabama; in the cottonmouth reptile, *Agkistrodon piscivorus*); Böckeler & Böhme, 1987: 52 (Paraguay; in serpents); Ambrose & Riley, 1988a: 381 (integumentary glands); 1988b: 721 (cuticle); 1988c: 27 (in mammals, *Mus* (*Mus*) *musculus musculus* [as *Mus musculus*], and *Rattus*); 1989: 699 (in mammal, *Mus* (*Mus*) *musculus domesticus* [as *Mus domesticus*]); Storch et al., 1990: 610, figs 1-5 (adults from lungs of rattlesnake, *Crotalus atrox* bred in Dundee; genital of male, ultrastructure); Abele et al., 1989: 685 (18S rRNA sequences, from lungs of a water moccasin, *Agkistrodon piscivorus*); 1992: 373 (18S rRNA and DNA nucleotide sequences); D.A.C. Jones & Riley, 1991: 331 (ELISA for detection of infections); D.A.C. Jones et al., 1991: 61 (excretory and secretory components of frontal glands); 1992: 469 (lipid and proteins of surface membranes); Richardson et al., 1992: 163 (USA: Arkansas; in raccoon, *Procyon lotor lotor* [as *Procyon lotor*]); Storch & Jamieson, 1992: 95 (sperm ultrastructure, relationship with Crustacea; in *Crotalus atrox*); McHardy et al., 1993: 47 (adults in lungs of rattlesnake definitive hosts; larvae in rat intermediate hosts); Buckle et al., 1997: 503 (in vitro development from infective to adult stage); Riley & Henderson, 1999: 89 (in tetrapod lung); F.A. Martínez et al., 2000a: 39 (Argentina; in colubrid snake, *Hydrodynastes gigas*); 2000b: 43 (nymph infestation); Buckle et al., 2002: 391 (proteinases from adults in lung of rattlesnakes, and from larval stages in rodent intermediate hosts); Goldberg et al., 2003: 51 (USA: California: Santa Catalina Island; in rattleless rattlesnake); Böckeler, 2007: 7, figs (parasites of reptiles); Möller et al., 2008: 335 (18S sequence from GeneBank); Tappe & Büttner, 2009: 1 (human visceral pentastomiasis caused by nymphs); Brookins et al., 2009: 460 (USA; nymphs causing massive visceral pentastomiasis in a schnauzer dog); Röhlrig et al., 2010: 146, fig. 5b (non-type material, including a specimen from Cascavél, State of Paraná, Brazil, deposited in Museum für Naturkunde, Berlin); Rataj et al., 2011: 9, figs 2-4 (adults and eggs in snake *Platyceps karelini*).

Polystoma proboscideum Rudolphi, 1812: 106 (replacement name given for *Porocephalus crotali* Humboldt, 1812 without any explanation).

Porocephalum crotali; Blainville, 1828: 365.

Pentastoma subcylindricum Diesing, 1836: 21 (*partim*; types: Brazil: Mto Grosso State: Cuiabá: Ipanema; larva in mammals, *Leontopithecus* [as *Midas*] *chrysopygus*, *Marmosa* [as *Didelphis*] *murina*, *Caluromys* (*Caluromys*) *philander philander* [as *Didelphis philander*], *Didelphis marsupialis marsupialis* [as *Didelphis marsupialis*], *Procyon cancrivorus cancrivorus* [as *Procyon cancrivorus*], *Dasypus novemcinctus novemcinctus* [as *Dasypus niger*], *Wiedomys* [as *Mus*] *pyrrhorhinos*, *Rattus rattus* [as *Mus fuliginosus*], *Phyllostomus discolor discolor* [as *Phyllostoma discolor*]).

Pentastomum proboscideum; Diesing, 1850: 609; Leidy, 1884: 140 (in snake, *Crotalus durissus durissus* [as *Crotalus adamanteus*]).

Pentastomum subcylindricum; Diesing, 1850: 609 (larva in *Leontopithecus* [as *Mystax*] *chrysopygus*, in bat, *Phyllostomus discolor discolor* [as *Phyllostoma discolor*], in edentate, *Dasypus novemcinctus novemcinctus* [as *Tatusia novemcincta*], in murids, *Wiedomys pyrrhorhinos* [as *Rhipidomys pyrrhorhinos*], and *Thaptomys nigrita* [as *Akodon fuliginosus*]); Stiles, 1891a: 348; 1891b: 85 (development).

Porocephalus humboldtii Mayer, 1851: 130 (listed as a synonym of *P. crotali* in Sambon, 1922: 427; information on type material not obtained).

Linguatula quadriuncinata Meyer (apud Shipley, 1898: 65; 1905: 249; listed in the synonymy of *Porocephalus crotali*).

Porocephalus crotalis; Layne, 1967: 105 (USA: Florida; in mammals); Self & Kuntz, 1967: 202, fig; Rego & Vicente, 1972: 65 (Brazil; larvae in mammals); Rego, 1983b: 233; 1984b: 393 (Brazil: Bahia; larval pentastomiasis in rodent, *Necomys lasiurus* [as *Zigodotomys pixuna*]); Storch & Jamieson, 1992: 95 (sperm, ultrastructural evidence for relationship with Crustacea); Goldberg et al., 2003: 51 (Mexico: Baja California Sur: Santa Catalina Island; in rattlesnake, *Crotalus catalinensis*).

Distr.: Americas. Primary host: rattlesnakes and moccasins; intermediate host: small mammals.

Porocephalus dominicana Riley & Walters, 1980

Porocephalus dominicana Riley & Walters, 1980: 123, figs 1-2 (types: Dominica; in lungs of boa, *Boa constrictor nebulosa* [as *Constrictor constrictor nebulosus*]).

Distr.: Dominican Republic. Primary host: Dominican boas.

Porocephalus siamensis Koch, 1906, *species incertae*

Porocephalus siamensis Koch, 1906: 288 (type: Siam; larvae in *Felis catus* [as *siamensis*]); Heymons, 1935: 251, fig. 148 (diagnosis; as *species incertae*); Heymons & Vitzthum, 1935a: 90 (juvenile of *Armillifer moniliformis moniliformis*?); Poore, 2012a: 213 (genus uncertain).

Distr.: Thailand. Intermediate host: lion. Heymons (1935) could not assign this species to a genus and subsequent authors have largely ignored it (Poore, 2012a).

Porocephalus stilesi Sambon (in Vaney & Sambon), 1910

Pentastoma proboscideum; Bremser, 1824 (*partim*); Diesing, 1836: 1 (*partim*; in snake, *Bothrops* [as *Lachesis*] *lanceolatus*); Mayer, 1851: 130.

Pentastoma gracile Diesing, 1836: 1 (*partim*; larva in intestine of *Bothropoides* [as *Bothrops*] *jararaca*).

Pentastomum proboscideum; Diesing, 1850: 609 (*partim*).

Porocephalus crotali; Shipley, 1898: 65 (*partim*).

Porocephalus stilesi Sambon (in Vaney & Sambon), 1910: 137, figs (types: USA; in snakes *Lachesis muta* [as *mutus*] and *Bothrops* [as *Lachesis*] *lanceolatus*); Sambon, 1922a: 197 (adults in snakes, *Lachesis muta* [as *mutus*] and rat-tailed pit-viper, *Bothrops* [as *Lachesis*] *lanceolatus*); Giglioli, 1927a: 33 (in snake, *Bothrops atrox*); Heymons, 1935: 231, fig. 137; Heymons & Vitzhum, 1935a: 68 (larvae in reptile, *Tupinambis teguixin*); M. Vargas V., 1970a: 241 (copulation dilators); 1970b: 27 (morphology of egg and nymphal stages); Riley & Self, 1979: 25 (reptilian host specificity, *Lachesis*); Rego, 1984a: 48, pl. 1 fig. 6 (experimental infestation of adults in lungs of *Cavia porcellus*, snakes, *Lachesis muta*, *Lachesis* sp., and *Helicops angulatus*); 1987: 73, figs 3-4; Storch et al., 1990: 610 (genitalia of male, ultrastructure; Peru; in lungs of bushmaster, *Lachesis muta*); Röhlig et al., 2010: 147, fig. 5c (non-type material, including material from hosts *Rhinocerosphis* [as *Bothrops*] *alternatus*, *Bothrops jararacussu*, and *Spilotes pullatus pullatus* [as *Spilotes pullatus*], deposited in Museum für Naturkunde, Berlin).

Porocephalus stilesi?; Hall et al., 1985: 195 (nymphs in the brain of the squirrel-monkey, *Saimiri sciureus sciureus* [as *Saimiri sciureus*]).

Distr.: South America. Primary host: pit vipers; intermediate host: small mammals.

Porocephalus subuliferum (Leuckart, 1860)

Pent[astomum] subuliferum Leuckart, 1860a: 154 (type: no locality given; in glottis of *Naja naja* [as *haje*]).

Porocephalus subulifer; Shipley, 1898: 75, fig. 21 (in Egyptian cobra, *Naja naja* [as *haje*]); Sambon, 1922a: 198 (in man); Heymons, 1935: 233 (diagnosis); 1940c: 205, fig.; Heymons & Vitzhum, 1935a: 70 (distribution: Africa: Uganda, in snakes); Fain, 1961: 60, figs (Central Africa); Nicoli, 1963: 499 (adults in *Gonionotophis poensis* [as *Mehelya poensis*], *Gonionotophis savorgnani* [as *Mehelya savorgnani* and *Mehelya lamani*]; larvae in *Psammophis sibilans*, *Galago senegalensis senegalensis* [as *Galago senegalensis*], and *Gonionotophis* [as *Simocephalus*] *capensis*); Legendre, 1967: 341 (chromosome number); Graber, 1981a: 155 (Congo Republic; in reptile, *Bitis gabonica*); Riley, 1992a: 402 (sex differences).

Porocephalus cercopithecici Breinl & Hindle, 1910: 322, figs (types from Liverpool Research Lab, UK: West Africa; larva in *Chlorocebus sabaues* [as *Cercopithecus callitrichus*]; synonymized by Heymons (1935: 233)); Röhlig et al., 2010: 147 (non-type material deposited, including material from Lake Tanganyika and from host *Bitis nasicornis*, in Museum für Naturkunde, Berlin).

Porocephalus bouvieri Vaney & Sambon, 1910: 129, figs (type: 'French Congo'; in snake *Simocephalus capensis*; synonymized by Heymons (1935: 233)).

Armillifer subulifer; Sambon, 1912: 258 (in snake, *Bitis gabonica*).

? *Porocephalus clavatus*; Southwell, 1924: 515 (in snake, *Causus rhombeatus*).

Distr.: Africa. Primary host: snake-eating snakes; intermediate host: other snakes and man.

Porocephalus taiwana M.H. Qiu, Ma Fan & Lu, 2005

Porocephalus taiwana M.H. Qiu et al., 2005: 69 (Taiwan; nymphs causing porocephal-
iasis taiwana in humans); Yao et al., 2008: 1295 (China; causing pentastomiasis in boy).

Distr.: Taiwan. Intermediate host: man.

Remarks: Species omitted by Poore (2012a).

Porocephalus tortugensis Riley & Self, 1979

Porocephalus tortugensis Riley & Self, 1979: 30, fig. (types: Mexico: Tortuga Island; in
rattlesnake *Crotalus atrox* [as *tortugensis*]).

Distr.: Tortuga Island, Mexico. Primary host: rattlesnakes.

The following remaining genera of Porocephalidae are treated as *incertae sedis*, pres-
ently not being able to be placed in either of the two subfamilies, Porocephalinae or
Armilliferinae:

Elenia Heymons, 1932

Elenia Heymons, 1932a: 413; 1935: 224 (diagnosis); Heymons & Vitzthum, 1935a: 53;
Bosch & Frank, 1986: 673 (intermediate and definitive hosts); Bosch, 1987 (biology);
1991: 50 (Australia; host specificity); Almeida & Christoffersen, 1999: 701 (attributed to
Porocephalidae, from Sambonidae).

Type-species, by monotypy: *Elenia australis* Heymons, 1932.

Elenia australis Heymons, 1932

Elenia australis Heymons, 1932a: 413, figs 4-7 (types from Zoologischen Museum,
Hamburg: east Australia: Queensland: Rockhampton; type-host unknown); 1935: 224,
fig. 131; 1939: 684, figs; Heymons & Vitzthum, 1935a: 53, fig. 26 (distribution); Riley et al.,
1985: 44, fig. 2 (Australia: Adelaide zoo; in lung of *Varanus varius*; New Guinea: Boroko,
in lung of *Varanus salvator salvator* [as *Varanus salvator*]; in reptiles and mammals; un-
known locality; in lung of *Varanus* sp.).

Distr.: Australian region. Primary host: snake. Intermediate hosts: mammals.

Elenia liasisi Heymons, 1939, *nomen dubium*

Elenia liasisi Heymons, 1939a: 686, figs 3, 4 (syntype in Museum für Naturkunde,
Berlin: Dutch New Guinea; in body cavity of lacertilian, *Lialis* [as *Liasis*] *jicari*).

Elenia (?) *lialis*; Heymons, 1941a: 326 (revised).

Distr.: Papua New Guinea. Primary host: snake.

Remarks: This may represent an immature *Waddycephalus* specimen from Indonesia
(according to Wikipedia, 2012).

Gigliolella Chabaud & Choquet, 1954*Gigliolella* Chabaud & Choquet, 1954: 336.Type-species, by monotypy: *Armillifer brumpti* Giglioli [in Sambon], 1922b: 371.*Gigliolella brumpti* (Giglioli, 1922)

Armillifer brumpti Giglioli (in Sambon), 1922b: 565 (types: Madagascar; nymph in insectivore, *Setifer* [as *Ericulus*] *setosus*; adults in lungs of two species of boids, *Acrantophis* [as *Boa*] *madascariensis*, and *Sanzinia madagascariensis madagascariensis* [as *Sanzinia madascariensis*]); Sambon, 1922b: 396, figs; Heymons, 1935: 243, fig. 141 (diagnosis); Heymons & Vitzhum, 1935a: 91 (distribution; in snail, *Sanzinia madagascariensis madagascariensis* [as *Corallus madagascariensis*]); Brygoo, 1963: 195 (Madagascar: Moramanga and Ampamaherana; in *Acrantophis dumerilli*; Ampijoroa; encysted larvae in *Tenrec ecaudatus*; Antogil Bay; larvae in *Hemicentetes semispinosus*, and in *Oryzoryctes hova* [as *talpoides*]); Slocombe & Budd, 1973: 352 (Canada; in a boa).

Gigliolella brumpti; Chabaut & Choquet, 1954: 331, fig. 1 (Madagascar; larvae nymphs in lemur, *Cheirogaleus medius*); Gretillat et al., 1962: 295, fig. 1; Röhlig et al., 2010: 144 (non-type material from the Berliner Aquarium deposited in Museum für Naturkunde, Berlin).

Distr.: Madagascar. Primary hosts: snakes. Intermediate hosts: mammals.

Kiricephalus Sambon, 1922

Kiricephalus Sambon, 1922a: 199 (of Porocephalini); Heymons, 1935: 233 (diagnosis); 1940b: 85; Heymons & Vitzhum, 1935a: 71; Riley & Self, 1980: 128 (systematics); Rego, 1984a: 52 (diagnosis; in *Bothrops atrox*, and *Mastigodryas boddaerti boddaerti* [as *Drymobius boddaerti*]); Reavill, 2005: 1 (reptile clinical pathology).

Cayerina Kishida, 1927: 987, fig. 1901 (type-species by monotypy: *Cayerina mirabilis* Kishida, 1927; synonymized with *Kiricephalus* by Heymons & Vitzhum, 1935a, p. 74); Neave, 1939 (listed as an arachnid); Poore, 2012a: 225 (listed as a valid genus and species, overlooking the proposed synonymy by Heymons & Vitzhum, 1935a).

Type-species, by original designation: *Pentastomum proboscideum* var. *coartatum* Diesing, 1850: 609.

Unidentified species: *Kiricephalus* sp.; Heymons, 1939b: 85 (systematics); Goldberg et al., 2004: 208 (Argentina; nymphs in lizards); 2009b: 58 (Papua New Guinea; in skinks *Sphenomorphus* spp.); 2010: 461 (Papua New Guinea; in skinks, *Sphenomorphus jobiensis* and *Sphenomorphus simus*); Bursey et al., 2005: 1385 (Papua New Guinea; in intestine of saurian, nymphs in *Sphenomorphus jobiensis*); 2008: 43 (Papua New Guinea; nymphs in ranid, *Hylarana* [as *Sylvirana*] *supragrisea*); Röhlig et al., 2010: 144 (non-type material, including material labeled "Hansa Brasil" [locality uncertain] from *Oxymycterus* [as *Hesperomys*] *rufus* deposited in Museum für Naturkunde, Berlin).

Kiricephalus clellii Riley & Self, 1980

Kiricephalus clellii Riley & Self, 1980: 133, fig. (types: Trinidad; reptilian host); Rego, 1984a: 48 (Trinidad; in lung of *Clelia clelia*).

Distr.: Trinidad. Primary host: pseudoboa.

Kiricephalus coarctatus (Diesing, 1850)

Pentastomum proboscideum var. *coarctatus* Diesing, 1850: 612 (*partim*; types: Brazil, in snake *Mastigodryas bifossatus bifossatus* [as *Coluber lichensteinii*]; East Indies, in *Ptyas* [as *Coluber*] *korros*).

Pentastomum proboscideum; Leidy, 1850: 96; 1884: 140; 1890: 140 (in snake, *Coluber constrictor constrictor* [as *Bascanion constrictor*]; larvae in mustelid, *Mephitis mephitis mephitis* [as *Mephitis mephitis*]).

Linguatula (*Porocephalus*) *seurati* Neveu-Lemaire, 1900: 112, fig. (type: Guatemala; juveniles in muscles of *Micrurus* [as *Elaps*] *fulvius*).

Porocephalus herpetodryados Shipley, 1905: 250, fig. 52 (types: Honduras: east of Andres to Rio de La Plata; Trinidad; Guadeloupe; St. Vincent; in snake, *Chironius* [as *Herpetodryas*] *carinatus*); Sambon, 1922b: 408, fig. 17.

Porocephalus coarctatum; Sambon, 1910a: 134 (Paraguay; Bolivia; Brazil; in snakes *Drymarchon corais corais* [as *Coluber corais*], *Mastigodryas bifossatus bifossatus* [as *Drymobius bifossatus*], and *Lygophis* [as *Aporophis*] *lineatus*).

Porocephalus grandis; Hett, 1915a: 115, figs 1-2 (in African vipers, *Bitis gabonica*, *Cerastes cerastes* [as *cornutus*], and *Bitis nasicornis*; larva in *murid*, *Oxymycterus rufus*).

Porocephalus globicephalus Hett, 1915a: 118, fig. 3 (type from London Zoo: southeastern USA; in lung of moccasin snake, *Nerodia fasciata fasciata* [as *Tropidonotus fasciatus*]; synonymized by Bambon, 1922); Job & Cooper, 1917: 138 (in lung of American "moccasin", *Nerodia fasciata fasciata* [as *Tropidonotus fasciatus*]; State of Iowa; in respiratory tracts of black snake, *Coluber constrictor constrictor* [as *Bascanion constrictor*]); Heymons, 1922: 155; Sambon, 1922b: 408.

Kiricephalus coarctatus; Sambon, 1922a: 199 (Guatemala; Mexico; adults in snakes, *Coluber constrictor constrictor* [as *Coluber constrictor*], *Drymarchon corais corais* [as *Coluber corais*] *Coluber flagellum* [as *flagelliformis*], *Mastigodryas bifossatus bifossatus* [as *Drymobius bifossatus*], *Drymarchon couperi* [as *Elaphe corais couperi*], *Micrurus* [as *Elaps*] *fulvius*, *Chironius* [as *Herpetodryas*] *carinatus*, *Lampropeltis* [as *Ophibolus*] *getula*, *Nerodia fasciata fasciata* [as *Tropidonotus fasciatus*], and *Thamnophis proximus proximus* [as *Thamnophis proximus*]; young forms in *Lygophis* [as *Aporophis*] *lineatus*, *Micrurus* [as *Elaps*] *fulvius*, and *Pituophis melanoleucus melanoleucus* [as *Elaps melanoleucus*]); Hett, 1924a: 144 (in snakes, *Lampropeltis* [as *Ophibolus*] *getula*, *Morelia spilota spilota* [as *Python spilotes*], and *Coluber flagellum* [as *Zamenis flagelliformis*]); Haffner, 1926a: 201 (juveniles in snake, *Pituophis melanoleucus melanoleucus* [as *Coluber melanoleucus*]); Hill, 1935b: 226 (USA: new host); Heymons, 1935: 234, fig. 138; 1940b: 85, figs; 1941a: 317, figs; Heymons & Vitzhum, 1935a: 72, fig. 29 (distribution: America; larva in *murid*, *Oxymycterus rufus*); Keegan, 1943a: 194, figs 1-3 (eggs and larvae in snakes, *Nerodia floridana* [as *Natrix cyclopion floridana*], and *Lampropeltis getula* [as *Lampropeltis getulus floridana*]); Riley & Self, 1980: 127 (serpents as hosts); Guidry & Dronen, 1980: 686 (biology of primary larva, in serpent host, and amphibian intermediate host, *Lithobates catesbeianus* [as *Rana catesbeiana*]); Rego, 1983b: 236, fig. 2 (Brazil; in snakes, *Mastigodryas bifossatus bifossatus* [as *Dryadophis bifossatus*], *Lygophis* [as *Aporophis*] *lineatus*, *Chironius* [as *Herpetodryas*] *carinatus*, and *Drymarchon corais corais* [as *Coluber corais*]; French Guiana: Approyage river; in lung and body cavities of snakes *Hydrodynastes bicinctus bicinctus* [as *Hydrodynastes bicinctus*], and *Mastigodryas bifossatus bifossatus* [as *Dryadophis bifossatus*]; *Kiricephalus constrictor* as new

synonym); 1984a: 48, pl. 1 fig. 7; Detterline et al., 1984: 137 (USA: Alabama; in snake, *Natrix*); Foster et al., 2000: 124 (Florida; in snake, *Drymarchon couperi* [as *Drymarchon corais couperi*]); Almeida & Christoffersen, 2002: 201 (distribution: Mexico; in snakes, *Micrurus* [as *Elaps*] *fulvius*, and *Coluber constrictor constrictor* [as *Zamenis constrictor*]); Montgomery et al., 2006: 277 (Panama; in colubrid snakes); Röhlig et al., 2010: 144 (non-type material, including a specimen from Gorgona, Colombia, deposited in Museum für Naturkunde, Berlin); Brock et al., 2012: 107 (in eastern indigo snake, *Drymarchon couperi*).

Kiricephalus constrictor Riley & Self, 1980: 133, fig. (types from Chicago Zoo: South America; reptilian host; sympatric occurrence with *Kiricephalus coarctatus*); Rego, 1984a: 48 (USA: Chicago; in lung of *Boa constrictor*; Poore, 2012a: 226 (listed as a valid species, without consideration of Rego's 1983b proposed synonymy with *K. coarctatus*).

Pentastomum colubri; Rego, 1984a: 53 (in *Lygophis* [as *Coluber*] *lineatus*).

Distr.: Americas and Asia. Primary hosts: snakes. Intermediate hosts: amphibians, snakes, and mammals.

Kiricephalus gabonsensis Riley & Self, 1980

Kiricephalus gabonsensis Riley & Self, 1980: 134, fig. (types: Cameroon Republic; in colubrid snake *Polemon gabonensis* [as *Miodon*] *gabonensis*).

Distr.: Cameroon. Primary hosts: colubrid snakes.

Kiricephalus pattoni (Stephens, 1908)

Pentastomum proboscideum var. *coarctatum* Diesing, 1850: 609 (*partim*).

Pentastomum pattoni Stephens, 1908: 553, pl. 1 figs 2, 3 (types: Madagascar; in snake, *Ptyas mucosa* [as *Zamenis mucosus*]).

Porocephalus moniliformis pattoni; Hett, 1921: 163 (Calcutta; adults in mesentery and stomach of *Ptyas mucosa* [as *Zamenis mucosus*]; larvae in mesentery and stomach of rat-snake, *Bungarus fasciatus*).

Kiricephalus pattoni; Sambon, 1922a: 200, figs (hosts: in lungs of snakes, *Xenochrophis* [as *Tropidonotus*] *piscator*, *Amphiesma stolatum* [as *Tropidonotus stolatus*], *Ptyas mucosa* [as *Zamenis mucosus*], and *Ptyas* [as *Zamenis*] *korros*); 1928: 82 (Java; beneath skin of *Fejervarya* [as *Rana*] *cancrivora*; juveniles in *Micryletta* [as *Microhyla*] *inornata*); Hett, 1924a: 144 (Madagascar; in *Leioheterodon madagascariensis*); Southwell, 1924: 515 (China: Hong Kong; in snake); Faust, 1927a: 317, figs 8-9 (Central China: Changsa; in *Xenochrophis* [as *Tropidonotus*] *piscator* and *Amphiesma stolatum* [as *Tropidonotus stolatus*]; nymph in lung of a cat, *Felis catus* [as *Felis domesticus*]; in flesh and viscera of snakes, *Rhabdophis tigrinus* [as *Natrix tigrina lateralis*], and *Plectrurus perrotetii*); Heymons, 1935: 235 (diagnosis; Australia; in *Morelia spilota spilota* [as *Python spilotes*]); Heymons & Vitzthum, 1935a: 74 (distribution: Indo-Malay [and Australian] regions, in lungs of snakes; Madagascar, in lungs of two species of snakes, *Sanzinia madagascariensis madagascariensis* [as *Corallus madagascariensis*], and *Leioheterodon madagascariensis*); Fernando, 1953: 155, figs 4-5 (Ceylon; male and nymph in body cavity of *Duttaphrynus* [as *Bufo*] *melanostictus*); Self & Kuntz, 1957: 196 (British Solomon Islands: Florida Island, in lung of the painted bronze snake, *Dendrelaphis calligaster* [as *Ahaetulla calligaster*]);

1967: 202, figs 1-5, 9; Brygoo, 1963: 165; Keegan et al., 1969: 149, figs (East and south Asia; male, female); Nadakal & Mohandas, 1975: 197 (histochemical study); Yamamoto et al., 1978: 143 (Japan; in vertebrate hosts); Riley & Self, 1980: 127 (serpent hosts, and amphibians as intermediate hosts, *Fejervarya* [as *Rana*] *limnocharis*); John & Nadakal, 1985: 333 (India; new reptilians, *Calotes*, *Ptyas*, and *Natrix*; life cycle with amphibian, *Euphlyctis* [as *Rana*] *hexadactyla*); 1986: 194 (juvenile in reptilian host, *Xenochrophis* [as *Natrix*] *piscator*); 1987: 67 (transplantation of nymphs); 1988: 295 (juvenile features in males; in reptilian hosts); 1989: 201 (in vitro culture); D.S. Li, 1985: 42 (China; in reptiles, *Ptyas* and *Morelia spilota spilota* [as *Python spilotes*]); Manna & Dutta, 1991: 171 (India: West Bengali; in thigh muscle of *Duttaphrynus* [as *Bufo*] *melanostictus*); Bursey & Goldberg, 2004: 1428 (Oceania: Republic of Belau: Palau Islands; in frog, *Platymanthis pelebensis*); Norval et al., 2009: 79 (Taiwan: Chiayi County; nymph in the snake, *Lycodon rushtrati rushtrati*; Australian region mentioned in Heymons & Vitzhum, 1935a not based on any definitive record); Röhlig et al., 2010: 144, fig. 5a (non-type material, including Thailand and Xiamen, China, deposited in Museum für Naturkunde, Berlin).

Pentastomum javanicum Bovien, 1927a: 2, figs 1-4 (syntypes from host *Fejervarya cancrivora* in Museum für Naturkunde, Berlin (see Röhlig et al., 2010); Indonesia: Java: Djombang; in *Hoplobatrachus tigerinus* [as *Rana tigrina*]; young form in *Micryletta* [as *Microhyla*] *inornata*) (synonymised by Hett, 1934).

Cayerina mirabilis Kishida, 1927: 987 (type: Japan; juveniles in *Fejervarya* [as *Rana*] *limnocharis*); Poore, 2012a: 225 (listed as a valid genus and species, on the basis of the illustration, Japanese description, and host; however, the species was synonymized with *Kiricephalus pattoni* by Heymons & Vitzhum, 1935a, p. 74, and has thus not been entirely ignored in the pentastome literature).

Porocephalus pattoni; Hett, 1934: 425 (Burma; from lung of *Hemidactylus gleadowi* [as *gleadovi*]; adults in lung of *Ptyas mucosa* [as *Zamenis mucosus*]; immature forms in liver of *Felis catus* [as *Felis domesticus*] and common garden lizard, and body cavities of snakes, *Xenochrophis* [as *Natrix*] *piscator*, *Amphiesma stolatus* [as *Natrix stolatus*], *Xenochrophis punctulatus* [as *Nerodia punctata*], *Trimeresurus purpuromaculata bicolor*, and *Oligodon purpurascens*, in mesentery of *Oligodon* [as *Simotes*] *cruentatus*, in muscles of *Duttaphrynus melanostictus* [as *Bufo melanostictum*] and common frog, *Hoplobatrachus tigerinus* [as *Rana tigrina*], and in connective tissues of stomach of *Oligodon cruentatus*).

Distr.: Asia, Australia. Primary hosts: snakes; intermediate hosts: amphibians, lizards, and snakes.

Kiricephalus tortus (Shiple, 1898)

Porocephalus tortus Shipley, 1898: 77, fig. 23 (types: New Britain: Bismarck Archipel; in snake, *Boiga* [as *Dipsadomorphus*] *irregularis*).

Kiricephalus tortus; Sambon, 1922a: 200, figs; Heymons, 1935: 236, fig. 139 (diagnosis); 1940b: 85, figs; 1941a: 317, figs; Heymons & Vitzhum, 1935a: 75 (distribution); Krishnasamy & Self, 1981: 750, fig. 1 (Malaysia: nymph in cat shark, *Hemiscyllium* [as *Chiloscyllium*] *indicum*).

Distr.: South Pacific Islands. Primary host: snakes. Intermediate host: cat shark.

Waddycephalus Sambon, 1922

Waddycephalus Sambon, 1922a: 203 (of Porocephalini); Heymons, 1935: 228 (diagnosis); 1941a: 317 (revised); Heymons & Vitzhum, 1935a: 60; Riley & Self, 1981a: 244 (revision); Riley et al., 1985: 39 (Australia: Northern Territory; mammalian host; attachment hooks); Almeida & Christoffersen, 1999: 701 (referred to Porocephalidae, from Sambonidae).

Type-species, by original designation: *Pentastoma terestiusculum* W. Baird, 1862.

Unidentified species: *Waddycephalus* sp. Keegan et al., 1969: 150, figs (male); Riley et al., 1985: 40 (Australia; in *Diplodactylus vittatus*); *Waddycephalus* spp. Riley & Self, 1981a: 249 (in tiger snake, *Notechis* sp., and copperhead snake, *Austrelaps superbus*). *Waddycephalus* spp. a-e Riley & Spratt, 1987: 142, fig. 2. (Australia: Victoria: Grampians; in snake, *Notechis scutatus scutatus* [as *Notechis scutatus*]; Reevesby Island; in *Notechis scutatus scutatus* [as *Notechis ater niger*]; South Australia: Fenelon Island; in lung of snake, *Drysdalia coronoides*; South Australia: Saint Francis Island; in lung of snake, *Morelia spilota spilota* [as *Morelia spilota*]; locality unknown; nymphs in marsupial, *Parantechinus apicalis*; South Australia; encysted in skink, *Hemiergis decresiensis decresciensis* [as *Hemiergis decresciensis*]; Western Australia: Woodstock station and Abydos station, near Marble Bar; encysted in abdomen of marsupial, *Dasykaluta rosamondae*; Papua New Guinea; from below post-orbital skin of a frog, *Crinia* [as *Ranidella*] *remota*; Mogo S.F: New South Wales; from below intestinal connective tissue of snake, *Cryptophis nigrescens*; Queensland: Wyberba: Girraween National Park; encysted in gecko, *Heteronotia binoei*); Barton, 2007: 254 (Australia: Northern Territory; in introduced Asian house gecko, *Hemidactylus frenatus*).

Distr.: Australia. Primary host: snakes and lizards. Intermediate hosts: reptiles, frogs, and marsupials.

Waddycephalus calligaster Riley & Self, 1981

Waddycephalus calligaster Riley & Self, 1981a: 250 (types: Australia: central Queensland: Cape York; in northern tree snake, *Dendrelaphis calligaster* [as *calligaster*]).

Distr.: Australia. Primary host: snakes.

Waddycephalus komodoensis Riley & Self, 1981

Waddycephalus komodoensis Riley & Self, 1981a: 250, figs 7, 8 (type: Indonesia: Komodoro Island: Loho Liang; in tree snake, the painted bronze back, *Dendrelaphis pictus pictus* [as *Dendrophis pictus*]).

Distr.: Indonesia. Primary host: snakes.

Remarks: Omitted from Poore's (2012a) and earlier species lists.

Waddycephalus longicauda Riley & Self, 1981

Waddycephalus longicauda Riley & Self, 1981a: 248, figs 4a, 5 (types: Australia: Indoo-ro-pilly; in *Demansia* sp.; North Queensland: Laura; in black-headed python, *Aspidites melanocephalus*; Brisbane; in yellow faced whip-snake, *Demansia psammophis psammophis*

[as *Demansia psammophilis*]; South Australia: Lake Puntawoloma, immature specimens in lung of western brown snake, *Pseudonaja nuchalis*); Riley & Spratt, 1987: 142 (Australia: Queensland: Moggill, Queensland National Parks and Wildlife Service; in lung of snake, *Demansia psammophilis psammophilis* [as *Demansia psammophilis*]).

Distr.: Australia. Primary hosts: snakes. Intermediate host: snakes.

Waddycephalus porphyriacus Riley & Self, 1981

Waddycephalus porphyriacus Riley & Self, 1981a: 248 (types: Australia: Queensland: Brisbane; in carpet python, *Morelia spilota* [as *spilotes*] *variegata*, black snake, *Pseudechis porphyriacus porphyriacus* [as *Pseudechis porphyriacus*], and brown snake, *Pseudonaja textilis textilis* [as *Pseudonaja textilis*]).

Distr.: Australia. Primary hosts: snakes.

Waddycephalus punctulatus Riley & Self, 1981

Waddycephalus punctulatus Riley & Self, 1981a: 250, figs 9, 10 8 (types: Indonesia; in common tree snake, *Dendrelaphis punctulatus*); Riley & Spratt, 1987: 144 (Australia: Northern Territory; in lung of snake, *Dendrelaphis punctulatus* [as *punctulata*]).

Distr.: Indonesia and Australia. Primary host: snake.

Waddycephalus radiata Riley & Self, 1981

Waddycephalus radiata Riley & Self, 1981a: 252 (type: Hong Kong; in snake, *Coelognathus radiatus* [as *Elaphe radiata*]).

Distr.: Hong Kong. Primary host: snake.

Waddycephalus scutata Riley & Self, 1981

Waddycephalus scutata Riley & Self, 1981a: 248 (types: Australia: South Australia: Saint Francis Island; in tiger snake, *Notechis scutatus scutatus* [as *Notechis scutata*]).

Distr.: Australia. Primary host: snake.

Waddycephalus superbus Riley & Self, 1981

Waddycephalus superbus Riley & Self, 1981a: 246, figs 2b, 4b (types: Australia: Tasmania: Green Bay; Bass Straight: Cape Barren Islands; in ground-dwelling copperhead snake, *Austrelaps* [as *Hoplocephalus*] *superbus*); Riley et al., 1985: 46; Riley & Spratt, 1987: 143 (Australia: Tasmania: Launceston and Lonford; in lung of snake, *Austrelaps superbus*).

Distr.: Australia. Primary hosts: snakes.

Waddycephalus teretiusculus (W. Baird, 1862)

Pentastoma teretiusculum W. Baird, 1862: 114 (type: Australia; one female in mouth of Australian snake, *Austrelaps* [as *Hoplocephalus*] *superbus*).

Pentastomum teretiusculum; Spencer, 1893: 1, pl. 1-9 (anatomy; Australia: Bass Strait: between Victoria and Tasmania: King Island; in lung of *Pseudechis porphyriacus porphyriacus* [as *Pseudechis porphyriacus*]).

Porocephalus teretiusculus; Shipley, 1898: 76, fig. 22 (in Australian snake).

Waddycephalus teretiusculus; Johnston, 1912: 233 (Australia; in reptiles, *Notechis scutatus scutatus* [as *Notechis scutatus*], *Demansia psammophis psammophis* [as *Diemenia psammophis*], *Pseudonaja textilis textilis* [as *Diemenia textilis*], and *Pseudechis porphyriacus porphyriacus* [as *Pseudechis porphyrineus*]); Sambon, 1922a: 203, figs (hosts: in lungs of Australian snakes, *Pseudechis porphyriacus porphyriacus* [as *Pseudechis porphyriacus*], *Austrelaps superbus* [as *Denisonia superba*], *Pseudonaja textilis textilis* [as *Diemenia textilis*], and *Demansia psammophis psammophis* [as *Diemenia reticulata*], and in the tiger snake, *Notechis scutatus scutatus* [as *Notechis scutatus*]); Hett, 1924a: 150, fig. 12; Heymons, 1932a: 409 figs 1-2; 1935: 228, figs 1, 135; 1941a: 317 (revision; distribution: Australia, Hong Kong, China, Bengal, Maldive Islands, Sumatra, Java); Heymons & Vitzhum, 1935a: 61, fig. 27 (distribution: Australia; in lungs of five species of snakes); Self & Kuntz, 1957: 194 (British Solomon Islands: Florida Island, in painted bronze snake, *Dendrelaphis calligaster* [as *Ahaetulla calligaster*]); 1967: 205, figs; Stunkard & Gandal, 1968: 49 (Australia: Victoria; in lungs of snake, *Pseudechis porphyriacus porphyriacus* [as *Pseudechis porphyriacus*], that died in the New York Zoo); Riley & Self, 1981a: 246, fig. 2a (Australia; in ground-dwelling copperhead snake, *Austrelaps superbus*); Riley et al., 1985: 40; Riley, 1992a: 402, fig. 1d (sex differences); Röhlig et al., 2010: 148, fig. 5d (non-type material, including juvenile male from northern Queensland, in *Dasyurus* sp., deposited in Museum für Naturkunde, Berlin).

Distr.: Asia and Australia. Primary hosts: snakes.

Waddycephalus vitiensis Heymons, 1932

Waddycephalus vitiensis Heymons, 1932a: 412, fig. 3 (type, Zoologisches Museum, Hamburg: Fiji Islands; Viti; in *Crocodylus porosus* ?); Heymons, 1935: 229 (diagnosis); Heymons & Vitzhum, 1935a: 64.

Distr.: Fiji Islands. Primary host: crocodile.

Remarks: Omitted from Poore's (2012a) and earlier species lists.

Host/parasite checklist of Recent Pentastomida

Species were first searched with Google (2012), being then listed from Wikipedia (2012), and finally checked by specific taxon sites or checklists indicated below for each group; taxa within double quotes are not confirmed as valid from these sources. Several of these unconfirmed host names were introduced by Diesing (1836, 1850), their problematic status already having been noted by Heymons (1935). Full synonyms of host species may be obtained in the databases cited for each group. Herein we indicate only previous names indicated in the pentastomid literature.

INSECTA (Species were validated, in addition to the general references indicated above, with ITIS, 2012).

COLEOPTERA: SCARABEIDAE (scarab beetles):

Microctenochira bilobata (Boheman, 1855) [= *Coelosis bilobata* Boheman, 1855]. Parasite: *Raillietiella gigliolii*.

NEOPTERA: BLATTARIA (cochroaches): BLABERIDAE (giant cochroaches):

Blaberus discoidalis Serville, 1839 (discoid cockroach). Parasite: *Raillietiella gehyrae* (nymphs in fat bodies of intermediate host; infective third stage free in coelom).

NEOPTERA: BLATTARIA: BLATTIDAE (household cochroaches):

Periplaneta americana (Linnaeus, 1758) (American cockroach). Parasites: *Raillietiella amphiboluri*; *R. hebitihamata* (larvae in fat bodies, infective stages free in coelom of intermediate host); *R. gigliolii*.

Periplaneta australasiae (Fabricius, 1775) (Australian cockroach). Parasite: *Raillietiella hebitihamata*.

PISCES (Species were validated, in addition to the general references indicated above, with Eschmeyer, 1998, Reis et al., 2003, and FishBase, 2012).

ELASMOBRANCHII (sharks and rays): ORECTOLOBIFORMES (carpet sharks): HEMISCYLLIDAE (bamboo sharks):

Chiloscyllium indicum (Gmelin, 1789 [in Linnaeus & Gmelin, 1788]) [= *Hemiscyllium indicum* (Gmelin [in Linnaeus & Gmelin, 1788]) (slender bambooshark). Parasite: *Kiri-cephalus pattoni*.

ELASMOBRANCHII: RAJIFORMES (skates and rays): POTAMOTRIGONIDAE (river stingrays):

Potamotrygon motoro (Müller & Henle, 1841) [= *Raia motoro* (Müller & Henle, 1841; *Taeniura motoro* Müller & Henle, 1841) (South American freshwater stingray; "raia de fogo"; "raia-maça"; "boro"). Parasites: *Leiperia gracilis* (larvae); *Sebekia oxycephalum* (larvae).

ACTINOPTERYGII (ray-finned fish): AMIFORMES (bowfins): AMIIDAE (bowfins):

Amia calva Linnaeus, 1766 (bowfin). Parasite: *Sebekia oxycephalum* (larvae encysted in mesenteries).

ACTINOPTERYGII: CHARACIFORMES (characins): ALESTIDAE (African tetras):

Alestes macrophthalmus Günther, 1867 (torpedo robber, an alestid fish). Parasites: *Leiperia cincinnalis* (larvae); *L. gracilis* (larva in peritoneum of cloaca).

ACTINOPTERYGII: CHARACIFORMES: BRYCONIDAE: SALMINAE:

Salminus brasiliensis (Cuvier, 1816) [= *Hydrocyon brevidens* Cuvier, 1819; *Salminus brevidens* (Cuvier, 1819); *Salmo auratus* Natterer, 1836] ("dourado", a freshwater fish). Parasite: *Leiperia gracilis* (larvae encysted in intestinal wall).

ACTINOPTERYGII: CHARACIFORMES: CHARACIDAE (characins):

Astyanax mexicanus (De Filippi, 1853). (Mexican tetra). Parasite: *Leiperia gracilis*.

ACTINOPTERYGII: CHARACIFORMES: CHARACIDAE: TETRAGONOPTERINAE:

Tetragonopterus argentatus (Baird & Girard, 1854); ("sardinha matupiri"; "sauá"). Parasite: *Sebekia oxycephalum*.

ACTINOPTERYGII: CHARACIFORMES: CYNODONTIDAE (dogtooth characins): CYNODONTINAE:

Rhaphiodon vulpinus Spix & Agassiz, 1829 [= *Salmo tamuco* Kner, 1860] (a characoid freshwater fish: biara; "chafalote"; "chambira-challua"; "dentudo"; "peixe-cachorro"; "peixe cadela"; "saranha"). Parasites: *Leiperia gracilis*; *Sebekia oxycephalum* (larva).

ACTINOPTERYGII: CHARACIFORMES: ERYTHRINIDAE (trahyras):

Hoplias malabaricus (Bloch, 1794) [= *Macrodon trahira* (Agassiz, 1829)] (a freshwater

fish: trahira; "aimara"). Parasites: *Leiperia gracilis* (larvae in body cavity); *Sebekia oxycephalum*; *Subtriquetra subtriquetra* (larvae).

ACTINOPTERYGII: CHARACIFORMES: SERRASALMIDAE:

Pristobrycon aureus (Spix & Agassiz, 1829) [= *Salmo erythrophthalmus* Kner, 1860] (a salmonid fish). Parasite: *Sebekia oxycephalum* (larva).

Pygocentrus nattereri Kner, 1858 [= *Serrasalmus nattereri* (Kner, 1858)] (red piranha). Parasites: pentastomids (in muscles, coelomic cavity, and air bladder); *Sebekia oxycephalum* (larvae); *S. sp.*

Pygocentrus piraya (Cuvier, 1819) [= "*Serrasalmus piranha*"] (true piranha; San Francisco piranha; "cariba"). Parasites: *Leiperia gracilis* (larva); *Sebekia oxycephalum* (larva); *S. sp.*; *Subtriquetra subtriquetra* (larvae in swimming bladder).

ACTINOPTERYGII: CLUPEIFORMES (clupeiformes herrings): CLUPEIDAE (herrings, shads, sardines, menhadens):

"*Clupea tobarana* Natterer, 1836" (a marine fish). Parasites: *Leiperia gracilis*; *Sebekia oxycephalum* (larva). Remarks: Heymons (1935) was also unable to identify this fish name. It does not appear on FishBase (2012).

ACTINOPTERYGII: CLUPEIFORMES: PRISTIGASTERIDAE (pristigasterids):

Pellona castelnaeana Valenciennes, 1847 (Amazon pellona; "apapá"; "sardinha branca"; "sardinata"). Parasite: *Leiperia gracilis*. Remarks: Heymons (1935) synonymized this species with *Ilisha flavipennis* (Valenciennes, 1849), but both species are now considered valid.

ACTINOPTERYGII: CYPRINODONTIFORMIS (rivulines, killifishes, and levebearers): CENTRARCHIDAE (sunfishes):

Pomoxis nigromaculatus (Lesueur, 1829) [= *Pomoxis sparoides* (Lacepède, 1801)] (black crappie). Parasite: *Sebekia oxycephalum* (larvae encysted in mesenteries).

ACTINOPTERYGII: CYPRINODONTIFORMIS: FUNDULIDAE (topminnows and killifishes):

Fundulus grandis Baird & Girard, 1853 (Gulf killfish, a fundulid). Parasite: *Leiperia gracilis* (intermediate host).

ACTINOPTERYGII: CYPRINODONTIFORMIS: POECILIIDAE (poeciliids):

Phalloceros harpagos Lucinda, 2008 ("barrigudinho"). Parasite: *Sebekia oxycephalum* (nymphs in mesenteries).

Poecilia Bloch & Schneider, 1801 sp. (a freshwater fish: guppy; lebistes). Parasite: *Subtriquetra subtriquetra* (developmental stages).

Poecilia latipinna (Lesueur, 1821) (sailfinmolly). Parasite: *Sebekia oxycephalum* (nymphs in viscera).

Poecilia reticulata Peters, 1859 (guppy). Parasites: *Sebekia minor* (larvae); *S. oxycephalum* (nymphs in viscera).

ACTINOPTERYGII: CYPRINODONTIFORMIS: POECILIIDAE: POECILIINAE:

Gambusia affinis affinis (Baird & Girard, 1853) [= *Gambusia affinis* (Baird & Girard, 1853)] (mosquitofish). Parasites: *Sebekia mississippiensis* (intermediate host); *S. oxycephalum* (infective larvae).

Gambusia holbrooki (Girard, 1859) [= *Gambusia affinis holbrooki* (Girard, 1859)] (eastern mosquito fish). Parasite: *Sebekia oxycephalum* (larvae encysted in mesenteries).

Priapichthys annectens (Regan, 1907) (a freshwater fish). Parasite: *Subtriquetra subtriquetra* (larvae introduced experimentally into host).

Xiphophorus helleri Heckel, 1848 (green swordtail, a freshwater fish). Parasite: *Sebekia mississippiensis* (intermediate host).

Xiphophorus maculatus (Günther, 1866) (southern platyfish). Parasites: *Sebekia oxycephalum* (nymphs in viscera); *Subtriquetra subtriquetra* (developmental stages).

ACTINOPTERYGII: GYMNODONTIFORMES (knifefishes): APTERONOTIDAE (ghost knifefishes):

Apteronotus albifrons (Linnaeus, 1766) [= *Sternarchus albifrons* (Linnaeus, 1766)] (black ghost knife fish; "itui cavalo"). Parasites: *Leiperia gracilis* (larva); *Sebekia oxycephalum* (larvae).

ACTINOPTERYGII: GYMNODONTIFORMES: GYMNOTIDAE (naked-back knife-fishes):

Electrophorus electricus (Linnaeus, 1766) [= *Gymnotus electricus* Linnaeus, 1766] (electric eel; "poraquê"). Parasite: *Leiperia gracilis*; *Sebekia oxycephalum* (larva).

Gymnotus carapo Linnaeus, 1758 [= *Carapus brachyurus* Bloch, 1786] (banded knife-fish; "carapó"; "mailura"; "tira-faca"). Parasite: *Leiperia gracilis*.

ACTINOPTERYGII: OSTEOGLOSSIFORMES (bony tongues): ARAPAIMIDAE (bony-tongues):

Arapaima gigas (Schinz, 1822) (arapaima; pirarucu; a freshwater fish). Parasite: *Leiperia gracilis* (larvae).

ACTINOPTERYGII: OSTEOGLOSSIFORMES: MORMYRIDAE (elephantfishes):

Marcusenius macrolepidotus (Peters, 1852) (bulldog, a freshwater fish). Parasite: *Sebekia minor* (encysted infective larvae).

ACTINOPTERYGII: PERCIFORMES (perch-likes): CENTRARCHIDAE (sunfishes): *Lepomis gibbosus* (Linnaeus, 1758) [= *Eupomotis gibbosus* Linnaeus, 1758; *Eupomotis microlophus* (Günther, 1859)] (common sunfish; pumpkinseed; stump-knocker). Parasite: *Sebekia oxycephalum* (larvae encysted in mesenteries).

Lepomis gulosus (Cuvier, 1829) [= *Chaenobryttus gulosus* (Cuvier, 1829)] (warmouth bass). Parasites: *Raillietiella* sp. (larvae in tissues); *Sebekia oxycephalum* (larvae encysted in mesenteries).

Lepomis macrochirus Rafinesque, 1819 (bluegill). Parasite: *Leiperia gracilis* (intermediary host).

Lepomis megalotis (Rafinesque, 1820) [= *Xenotis megalotis marginatus* (Holbrook, 1855)] (Florida long-eared sunfish). Parasite: *Sebekia oxycephalum* (larvae encysted in mesenteries).

Lepomis punctatus (Valenciennes, 1831) [= *Sclerotis punctatus punctatus* (Valenciennes, 1831)] (black-spotted sunfish). Parasite: *Sebekia oxycephalum* (larvae encysted in mesenteries).

ACTINOPTERYGII: PERCIFORMES: CICHLIDAE: ASTRONOTINAE:

Astronotus crassipinnis (Heckel, 1840) [= *Acara crassipinnis* Heckel, 1840] ("acaruaçu"; "oscar"; "apaiari"). Parasite: *Leiperia gracilis*.

ACTINOPTERYGII: PERCIFORMES: CICHLIDAE: CICHLASOMATINAE:

Aequidens pulcher (Gill, 1858) [= *Aequidens pulchra* (Gill, 1858)] (blue acara). Parasite: *Sebekia oxycephalum* (intermediate host).

Aequidens tetramerus (Heckel, 1840) [= *Acara cascudo* Linnaeus, 1758] ("acará-cascudo"; saddle cichlid; an Amazon fish). Parasite: *Subtriquetra subtriquetra* (nymph in intestine).

Amatitlania nigrofasciata (Günther, 1867) [= *Cichlasoma nigrofasciatum* (Günther, 1867)] (convict). Parasite: *Subtriquetra subtriquetra* (larvae and nymphs in swim bladder).

Cichlasoma urophthalmus (Günther, 1862) (Mayan cichlid fish). Parasite: *Subtriquetra subtriquetra*.

Parachromis montaguensis (Günther, 1867) [= *Cichlasoma montaguense* (Günther, 1867)] (false yellow jacket cichlid). Parasite: *Sebekia* sp. (in mesenteries).

Paraneetroplus synspilus (Hubbs, 1935) [= *Cichlasoma synspilum* Hubbs, 1935] (pastel cichlid; quetzel cichlid; redhead cichlid; firehead cichlid). Parasite: *Subtriquetra subtriquetra* (in mesenteries).

ACTINOPTERYGII: PERCIFORMES: CICHLIDAE: CICHLINAE:

Cichla monoculus Spix & Agassiz, 1831 [= *Lobotes monoculus* Spix & Agassiz, 1831] (a marine fish). Parasite: *Leiperia gracilis* (larvae).

ACTINOPTERYGII: PERCIFORMES: CICHLIDAE: PSEUDOCRENILABRINAE:

Bathybates ferox Boulenger, 1898. Parasite: *Leiperia cincinnalis* (infective larvae).

Oreochromis mossambicus (Peters, 1852) (Mossambique bream; "tilapia"). Parasites: *Alofia* sp. (larvae in swim bladder); *Leiperia cincinnalis* (experimentally infected with primary larvae); *Sebekia minor* (larvae); *Subtriquetra rileyi* (infective larvae in swim bladder).

Oreochromis niloticus niloticus (Linnaeus, 1758) [= *Lates niloticus* Linnaeus, 1758; *Tilapia nilotica* (Linnaeus, 1758)] (mango fish; Nile perch; Nile tilapia; nilotica; a freshwater latid fish). Parasite: *Leiperia cincinnalis* (nymphs in muscle).

Sargochromis giardi (Pellegrin, 1903) [= *Pelamatochromis robustus* Gilchrist & Thompson, 1917] (ligros-happy; pink happy). Parasite: *Leiperia cincinnalis* (nymphs in body cavity).

Serranochromis meridianus Jubb, 1967 (lowveld largemouth). Parasite: *Leiperia cincinnalis* (as intermediary host).

Tilapia Smith, 1840 sp. Parasite: *Sebekia oxycephalum* (infective larvae); *Subtriquetra subtriquetra* (developmental stages).

Tilapia rendalli (Boulenger, 1897) [= *Tilapia rendalli swierstrae* Gilchrist & Thompson, 1917] (redbreasted Maori wrasse; redbreast tilapia). Parasites: *Sebekia minor* (infective larvae); *Subtriquetra rileyi* (infective larvae).

Tilapia zilli (Gervais, 1848) (redbelly tilapia). Parasite: *Sebekia oxycephalum* (nymphs in viscera).

ACTINOPTERYGII: PERCIFORMES: GOBIIDAE (gobiids): GOBINELLINAE:

Gobioides broussonnetii Lacepède, 1800 (violet goby). Parasite: *Leiperia gracilis* (juvenile).

Gobioides peruanus (Steindachner, 1880) (Peruvian eelgoby). Parasite: *Leiperia gracilis* (nymphs).

ACTINOPTERYGII: PERCIFORMES: LATIDAE (Lates perches):

Lates microlepis Boulenger, 1898 (forktail latid, a freshwater fish). Parasite: *Leiperia cincinnalis* (larval forms).

ACTINOPTERYGII: PERCIFORMES: SCIAENIDAE (drums or croakers):

Micropogonias undulatus (Linnaeus, 1766) (Atlantic croaker). Parasite: *Leiperia gracilis* (intermediary host).

ACTINOPTERYGII: SALMONIFORMIS (salmons): SALMONIDAE (salmonids): SALMONINAE:

Salmo Natterer, 1836 sp. Parasite: *Sebekia oxycephalum* (larvae).

Salmo salar Linnaeus, 1758 (Atlantic salmon). Parasite: *Sebekia oxycephalum* (larvae).

ACTINOPTERYGII: SILURIFORMES (catfish): ARIIDAE (sea catfishes):

Sciades herzbergii (Bloch, 1794) [= *Bagrus mesops* Valenciennes, 1840; *Bagrus pemecus* Valenciennes, 1840] (pemecou sea catfish; gillbacker; mud cuirass; "bagre branco"; "bagre guriba"; bagre juba"; "guriuba"; "jahu Amazonense"). Parasite: *Leiperia gracilis*.

ACTINOPTERYGII: SILURIFORMES: CLARIIDAE (airbreathing catfishes):

Clarias gariepinus (Burchell, 1822) (North African catfish; walking catfish). Parasite: *Sebekia okavangoensis* (larvae in body cavity).

ACTINOPTERYGII: SILURIFORMES: CLAROTEIDAE (claroteid catfishes): CLAROTEINAE:

Chrysichthys brachynema Boulenger, 1900 (kibonde; planet catfish). Parasite: *Leiperia cincinnalis* (larval forms).

Chrysichthys mabusi Boulenger, 1905 (bemba). Parasites: *Leiperia cincinnalis* (larvae); *L. gracilis* (larvae in peritoneum of cloaca).

ACTINOPTERYGII: SILURIFORMES: ICTALURIDAE (North American freshwater catfishes):

Ameiurus natalis (LeSueur, 1819) (yellow bullhead fish). Parasite: *Sebekia oxycephalum* (larvae).

Ictalurus meridionalis (Günther, 1864) (blue catfish). Parasite: Pentastomida sp. (nymphs).

ACTINOPTERYGII: SILURIFORMES: PIMELODIDAE (long-whiskered catfishes):

Brachyplatystoma filamentosum (Lichtenstein, 1819) [= *Silurus piraiba* (Goeldi, 1898); "*Silurus piratinga*"] (kumakuma; "bagre amarelo"; "bagre branco"; "bandeirinha"; "cadete"; "chumbadinha"; "dourado"; "filhote"; "guiri"; "piramutaba"; a freshwater catfish). Parasite: *Leiperia gracilis* (larva). Remarks: Using piraiba as a vernacular name, *Brachyplatystoma filamentosum* (Lichtenstein, 1819) appears in FishBase (2012), with *Piratinga piraiba* Goeldi, 1898 (lau-lau, "bagre-branco", "bagre-pobre") as a synonym. It appears that *Brachyplatystoma filamentosum* may have been the species intended.

Hemisorubim platyrhynchos (Valenciennes, 1840) [= *Silurus gerupoca* Natterer, 1858] (porthole shovelnose catfish; toa; "gerupoca"; "jurupoca"). Parasites: *Leiperia gracilis* (larvae); *Sebekia* sp.

Phractocephalus hemiliopterus (Bloch & Schneider, 1801) [= *Pirarara bicolor* Spix & Agassiz, 1829] (redtailed catfish; "lorai"; "parabé-prê"; "pirarara"; "varara"). Parasite: *Leiperia gracilis* (larvae).

Pimelodus sp. Lacépède, 1803. Parasite: *Sebekia* sp.

Pimelodus ornatus Kner, 1858 [= *Silurus megacephalus* (Natterer, 1858)] (ornate pimelodus; "bagre-de-água-doce"; "mandi"; "mandi-guaru"). Parasite: *Leiperia gracilis* (larvae).

Pinirampus sp. Bleeker, 1858 (a fish). Parasite: *Sebekia* sp.

Pinirampus pinirampu (Spix & Agassiz, 1829) [= *Pimelodus pinirampu* Spix & Agassiz, 1829] (flatwhiskered catfish; "piranabu"). Parasite: *Leiperia gracilis* (larvae).

Pseudoplatystoma Bleeker, 1862 sp. (a fish). Parasites: *Sebekia* sp.; *Leiperia gracilis* (larvae; in muscles); *Sebekia oxycephalum*.

Pseudoplatystoma corruscans (Spix & Agassiz, 1829) (spotted sorubim). Parasite: *Sebekia oxycephalum*.

Pseudoplatystoma fasciatum (Linnaeus, 1766) [= *Silurus fasciatus* Linnaeus, 1766]

(barred-sorubun; tigerfish; "cachara"; "pintado"; "surubim-cachara"). Parasites: Pentastomida sp.; *Leiperia gracilis* (larvae); *Sebekia oxycephalum* (larvae).

Pseudoplatystoma tigrinum (Valenciennes, 1840) [= *Platystoma tigrinum* Valenciennes, 1840] (tiger sorubim; "cachara-tigre"; "caparari"; "pirambucu"; "surubim". Parasite: *Leiperia gracilis*.

Zungaro jahu (Ihering, 1898) [= *Silurus jahu* Ihering, 1898] ("jaú", a migratory catfish). Parasite: *Leiperia gracilis* (larvae).

Zungaro zungaro (Humboldt, 1821) [= *Paulicea luetkeni* (Steindacker, 1871)] (gilded catfish). Parasite: *Leiperia gracilis*.

ACTINOPTERYGII: SILURIFORMES: SILURIDAE (sheatfishes):

Silurus sp. Parasites: *Leiperia gracilis* (larvae); *Sebekia oxycephalum* (larva).

"*Silurus dourado*". Parasites: *Sebekia mississippiensis* (larvae); *S. oxycephalum* (larva).

Remarks: Several genera and species appear on FishBase (2012) when dourado is entered as a vernacular name, but no species name is associated with *Silurus*.

Silurus glanis Linnaeus, 1758 (Wels catfish). Parasite: *Linguatula serrata*.

"*Silurus mamaiaçu*". Parasite: *Leiperia gracilis* (larva). Not listed in FishBase (2012).

"*Silurus pintado* Natterer (in Diesing, 1836". Parasite: *Sebekia oxycephalum* (larva).

Remarks: No distinguishing characters mentioned for this taxon name (Eschmeyer, 1998: 2343). Heymons (1935: 168) was unable to place this fish species. Not listed in FishBase (2012).

"*Silurus (Pimelodus) vituga* (Natterer, in Diesing, 1836)" (apimelodid fish). Parasite: *Leiperia gracilis*. Remarks: No distinguishing characters mentioned for this taxon name (Eschmeyer, 1998: 1773). Heymons (1935: 168) was unable to place this fish species. Not listed in FishBase (2012).

ACTINOPTERYGII: SILURIFORMES: TRICHOMYCTERIDAE (pencil or parasitic catfishes): VANDELLINAE:

Vandellia cirrhosa Cuvier & Valenciennes, 1846 (candiru). Parasite: *Sebekia oxycephalum* (larva).

ACTINOPTERYGII: SYNBRANCHIFORMES (spiny eels): MASTACEMBELIDAE (spiny eels):

Mastacembelus Scoopoli (ex Gronow), 1777 sp. (a freshwater fish). Parasite: *Leiperia cincinnalis* (juvenile in digestive tract of intermediate host).

ACTINOPTERYGII: SYNBRANCHIFORMES: SYNBRANCHIDAE (swamp-eels):

Synbranchus Bloch, 1795 sp. (a freshwater fish). Parasite: *Leiperia gracilis*.

Synbranchus marmoratus Bloch, 1795 (marbled swamp eel; "mussum"). Parasites: *Leiperia gracilis*; *Sebekia oxycephalum* (larvae).

AMPHIBIA: (Species were validated, in addition to the general sites indicated above, with the AmphibiaWeb DataBase, 2012).

ANURA: BUFONIDAE:

Amietophrynus mauritanicus (Schlegel, 1841) [= *Bufo mauritanicus* Schlegel, 1841] (berber toad; Mauritian toad; Moroccan toad; morrish toad; pantherine toad). Parasites: *Raillietiella* (larvae); *R. sp.*

Amietophrynus regularis (Reuss, 1833) [= *Bufo regularis* Reuss, 1833] (common African toad; common square-marked toad; Egyptian toad; Reuss's toad). Parasite: *Raillietiella* sp. (definitive host).

Duttaphrynus melanostictus (Schneider, 1799) [= *Bufo melanostictum* (Schneider, 1799);

Bufo melanostictus (Schneider, 1799)] (Asian blackhead toad; Asian black-spotted toad; Asian eyebrow-ridge toad; black-lipped toad; black-spined toad; house toad; kneeled-nosed toad; common Indian toad; reticulated toad; southeast Asian broad-skulled toad; spectacled toad). Parasites: *Kiricephalus pattoni* (immature forms in muscles; nymph in body cavity); *Raillietiella indica* (immature forms in lung); *R. rileyi* (in lung).

Peltophryne lemur Cope, 1869 [= *Bufo lemur* (Cope, 1869)] (lowland Caribbean toad; Puerto Rican crested toad). Parasite: *Raillietiella bufonis* (adults in lungs).

Rhaebo blomeri (Myers & Funkhouser, 1951) [= *Bufo blomeri* Myers & Funkhouser, 1951] (Blomberg's toad; Colombia toad; "sapo gigante de Blomberg"). Parasite: *Raillietiella* sp.

Rhinella marina (Linnaeus, 1758) [= *Bufo marinus* (Linnaeus, 1758)] (agua road; invasive cane toad; giant toad; marine toad; shoulder-knot frog). Parasites: *Raillietiella hebitihamata*; *R. indica* (in lungs); *R. spp.*

Rhinella schneideri (Werner, 1894) [= *Bufo paracnemis* Lutz, 1925] (bull-frog; cururu toad; Schneider's toad). Parasite: *Raillietiella freitasi*.

ANURA: CERATOBATRACHIDAE:

Platymantis pelewensis Peters, 1867 (Palau wrinkled ground frog). Parasite: *Kiricephalus pattoni* (nymphs in intestine).

ANURA: DICROGLOSSIDAE:

Euphlyctis hexadactylus (Lesson, 1834) [= *Rana hexadactyla* (Lesson, 1834)] (green pond frog; Indian bullfrog; Indian five-fingered frog; Indian green frog; six-toed frog). Parasite: *Kiricephalus pattoni*.

Fejervarya cancrivora (Gravenhorst, 1829) [= *Rana cancrivora* Gravenhorst, 1829] (brackish frog; crab-eating frog; Gulf coast frog; Java wart frog; mangrove frog; marsh frog; rice-field frog). Parasites: *Kiricephalus pattoni* (beneath skin); *Raillietiella gehyrae*.

Fejervarya limnocharis (Gravenhorst, 1829) [= *Rana limnocharis* Gravenhorst, 1829] (Boie's wart frog; grass frog; Indian cricket frog; Indian rice frog; marsh frog; paddy-field frog; paddy frog; rice field frog; terrestrial frog; white-lined frog). Parasite: *Kiricephalus pattoni* (juvenile in intermediate host).

Hoplobatrachus tigerinus (Daudin, 1802) [= *Rana tigrina* Merrem, 1820] (common frog; golden frog; Indian bullfrog; Indus Valley bullfrog; Peter's frog; tiger frog). Parasite: *Kiricephalus pattoni* (immature forms in muscles).

ANURA: HYLIDAE:

Litoria Tschudi, 1838 sp. [= *Nyctimystes* Stejneger, 1916 sp.] (a tree frog). Parasite: *Raillietiella* sp. (nymph).

Litoria caerulea (White, 1790) (common green tree frog). Parasite: *Raillietiella indica*.

ANURA: MICROHYLIDAE: MICROHYLINAE:

Micryletta inornata (Boulenger, 1890) [= *Microhyla inornata* Boulenger, 1890] (deli little pygmy frog; deli paddy frog; false ornate narrow-mouthed frog; inornate froglet). Parasite: *Kiricephalus pattoni* (larvae).

ANURA: MYOBATRACHIDAE:

Crinia remota (Tyler & Parker, 1974) [= *Ranidella remota* Tyler & Parker, 1974] (paper bark froglet; remote froglet; torrid froglet). Parasite: *Waddycephalus* sp. (nymphs in post-orbital skin).

ANURA: RANIDAE:

Lithobates catesbeianus (Shaw, 1802) [= *Rana catesbeiana* Shaw, 1802] (American bull-

frog; bloody nouns; common bullfrog; eastern bullfrog; edible bullfrog; jug-o'-rum). Parasites: *Kiricephalus coarctatus* (primary larva in intermediate host).

Hylarana supragrisea (Menzies, 1987) [= *Sylvirana supragrisea* Menzies, 1987] (Papua Gray frog). Parasite: *Kiricephalus* sp. (nymphs in small intestine).

REPTILIA; (Species were validated, in addition the the general sites indicated above, with Reptile DataBase, 2012).

"*Tropidonotus* Boie, 1826 sp.". Parasite: *Sebekia oxycephalum* (larva). Remarks: Not listed in Reptile Database (2012).

CROCODYLIA (crocodiles, alligators): **ALLIGATORIDAE**:

Alligator mississippiensis (Daudin, 1802) [= *Alligator lucius* Cuvier, 1807] (American alligator; gator). Parasites: *Alofia platycephalum*; *Sebekia mississippiensis* (adults and nymphs, experimental nymphal infection of paratenic hosts); *S. oxycephala* (larvae in lungs and tracheae; adults in lungs, causing sebekiosis).

Caiman crocodilus (Linnaeus, 1758) [= *Caiman sclerops* (Schneider, 1801); *Champsia sclerops* (Schneider, 1801; *Caiman crocodilus* [as *Crocodylus sclerops*]) (South American crocodile; common caiman; spectacled caiman). Parasites: *Alofia platycephalum*; *Leiperia gracilis* (larvae in tracheae; adults in heart and aorta); *Sebekia microhamus* (female); *S. oxycephalum* (adults in lung); *S. trinitatis* (nymphae and adults); *Subtriquetra subtriquetra* (larvae and adults in mouth cavity, nasal fossae, and throat).

Caiman latirostris (Daudin, 1892) (broad-snouted caiman). Parasites: *Alofia platycephalum*; *Sebekia oxycephalum*.

Caiman yacare (Daudin, 1802) (jacaré-do-pantanal). Parasite: *Sebekia oxycephalum* (in lung, stomach and intestine).

Melanosuchus niger (Spix, 1825) (black caiman; "crocodilo"; "jacaré-açu"; "jacaré assu"; "jacaré guaçu"; "jacaré negro"; "jacaré una"). Parasites: *Sebekia oxycephalum* (adults); *Subtriquetra subtriquetra* (adults in nasal fossae).

CROCODYLIA: **CROCODYLIDAE**:

Crocodylus Laurenti, 1768 sp. Parasites: *Alofia ginae*; *A. merki*; *Sebekia cesarii* (adults in lungs).

Crocodylus acutus (G. Cuvier, 1807) [= *Crocodylus americanus* Laurenti, 1768] (American crocodile; sharp-nosed crocodile). Parasites: *Diesingia megastomum* (in lungs); *Leiperia gracilis* (adults in heart and aorta); *Sebekia divestei* (nymphs and adults in lungs); *S. oxycephalum* (in lungs and bronchial cavity).

Crocodylus johnsoni Krefft, 1825 (Australian freshwater crocodile; Johnston's river crocodile). Parasites: *Leiperia australiensis* (adult and immature female in pulmonary artery; female nymph near lung); *Sebekia johnsoni* (nymphs and adults); *S. multiannulata* (nymphs and adults); *S. purdiae*.

Crocodylus niloticus niloticus Laurenti, 1768 [= *Crocodylus niloticus* Laurenti, 1768] (Nile crocodile; Nilotic crocodile). Parasites: *Alofia nilotici*; *A. simpsoni*; *Leiperia cincinnalis* (adults in tracheae and lungs); *Sebekia cesarisi*; *S. minor* (young hosts infected experimentally with larvae obtained from fish); *S. okavangoensis*; *Subtriquetra rileyi* (final hosts); *S. wedli*.

Crocodylus niloticus suchus I. Geoffroy, 1807 [= *Crocodylus vulgaris* Cuvier, 1897] (Nile crocodile). Parasites: *Leiperia cincinnalis* (in heart; aorta, bronchiae, and tracheae); *Sebekia minor* (adults in bronchii).

Crocodylus novaeguineae K.P. Schmidt, 1928 (New Guinea crocodile). Parasite: *Sebekia novaeguineae* (adults).

Crocodylus palustris (Lesson, 1831) (Indian marsh crocodile; Indian swamp crocodile; mugger crocodile). Parasites: *Diesingia megacephala* (imbedded in flesh of head); *Subtriquetra megacephalum* (in head); *S. shipleyi*.

Crocodylus porosus Schneider, 1801 (saltwater crocodile). Parasites: *Alofia ginae* (in lungs and bronchioles); *A. merkii* (single male in bronchioles); *A. travassoi*; *Leiperia australiensis* (nymph in lung and tracheae); *Alofia solaris* (in lungs); *Sebekia johnstoni*; *S. multiannulata* (nymphs and adults); *S. purdiae* (nymphs and adults); *S. sp.* (females in lung); *Selfia porosus* (in bronchioles); *Subtriquetra megacephalum*; *S. shipleyi*; ? *Waddycephalus vitiensis*.

Crocodylus siamensis Schneider, 1801 (Siamese crocodile). Parasite: *Sebekia joubini* (adults in nasal cavity).

Mecistops cataphractus (G. Cuvier, 1825) [= *Crocodylus cataphractus* Cuvier, 1825] (African slender-snouted crocodile). Parasites: *Agema silvaepalustris* (in lungs); *Alofia parva* (in lungs); *Leiperia cinccinalis* (infective larva); *Sebekia okavangoensis*.

Osteolaemus tetraspis Cope, 1861 [= *Osteolaemus tetraspis osborni* Schmidt, 1919] (broad-nosed crocodile; dwarf crocodile; west African dwarf crocodile). Parasites: *Agema silvaepalustris* (in lungs); *Alofia parva* (in lungs); *Sebekia mississippiensis* (causing fatal pentastomiasis); *S. okavangoensis*.

CROCODYLIA: GAVIALIDAE:

Gavialis gangeticus (Gmelin, 1789) (gavial; gharial; Indian crocodile; Sangor crocodile). Parasites: *Alofia indica* (adults in lungs and tracheae); *Subtriquetra megacephalum*; *S. shipleyi* (in pharynx).

TESTUDINES (turtles): BATAGURIDAE or GEOEMYDIDAE:

Batagur baska (Gray, 1831) (a mud-turtle: batagur; river terrapin). Parasite: *Diesingia kachugensis* (young stage in liver).

Batagur kachuga Gray, 1831 [= *Kachuga lineata* Gray, 1831] (a semiaquatic Oriental tortoise: mud-turtle; red-crowned roofed turtle). Parasites: *Diesingia kachugensis* (young encysted in liver); *D. megastomum*.

TESTUDINES: CHELIDAE:

Hydromedusa tectifera Cope, 1869 (South American snake-necked turtle; "cágado"). Parasite: *Diesingia megastomum* (adults).

Phrynops geoffroanus (Schweigger, 1812) [= *Hydraspis geoffroana* (Schweigger, 1812)] (Geoffroy's side-necked turtle; Geoffroy's toadhead turtle; "cágado"). Parasite: *Diesingia megastomum* (adult in lung).

TESTUDINES: CHELYDRIDAE:

Chelydra serpentina (Linnaeus, 1758) [= *Chelhydra serpentina* (Linnaeus, 1758)] (common snapping turtle). Parasite: *Sebekia oxycephala*.

TESTUDINES: ERYDIDAE; DEIROCHELYNAE:

Pseudemys nelsoni Carr, 1938 (Florida redbelly turtle, a freshwater turtle). Parasite: *Sebekia mississippiensis*.

TESTUDINES: PELOMEDUSIDAE:

Pelomedusa subrufa subrufa (Lacépède, 1788) [= *Pelomedusa subrufa* (Lacépède, 1788) *nigra* (Gray, 1863)] (helmeted turtle). Parasite: *Pelonia africana* (immature forms, males and females in lungs).

Pelusios sinuatus (Smith, 1838) (east African serrated mud turtle; serrated hinged terrapin). Parasite: *Pelonia africana* (immature forms, males and females in lungs).

TESTUDINES: TESTUDINIDAE:

Testudo Linnaeus, 1758 sp. (a tortoise). Parasite: *Leiperia gracilis* (larvae).

TESTUDINES: TRIONYCHIDAE:

Apalone ferox (Schneider, 1783) (Florida soft-shell turtle). Parasite: *Alofia* sp.

Cycloderma aubryi (Duméril, 1856) (Aubry's flapshaped turtle; Aubry's soft-shelled turtle). Parasite: *Leiperia cinnamalis*.

SAURIA (lizards, geckos): AGAMIDAE:

Japalura swinhonis Günther, 1864 (Taiwan japalure, an agamid lizard). Parasite: *Raillietiella hebitihamata*.

Laudakia stellio stellio (Linnaeus, 1758) [= *Agama stellio* (Linnaeus, 1758)] (rougetail rock agama). Parasites: *Raillietiella aegyptii*; *R. affinis* (adults); *R. gehyrae* (adult).

Uromastix aegyptia aegyptia (Forsk., 1775) (Egyptian dab lizard; Egyptian mastigure; Egyptian spiny-tailed lizard). Parasites: *Raillietiella aegyptii*; *R. affinis*.

SAURIA: AGAMIDAE: AGAMINAE:

Agama aculeata aculeata Merrem, 1820 (ground agama). Parasite: *Raillietiella namibien-sis* (larvae).

Agama agama (Linnaeus, 1758) (agamid rainbow lizard; common agama; red-head-ed agama). Parasite: *Raillietiella* sp. (infection).

Agama planiceps Peters, 1862 [= *Agama planiceps* Peters, 1862; *Agama planiceps planiceps* Peters, 1862] (Namib rock agama). Parasite: *Raillietiella namibiensis* (in lungs).

Trapelus mutabilis (Merrem, 1820) [= *Agama mutabilis* Merrem, 1820] (desert agama). Parasite: *Raillietiella aegyptii*.

SAURIA: AGAMIDAE: AMPHIBOLOURINAE:

Pogona barbata (Cuvier, 1829) [= *Amphibolurus barbatus* (Cuvier, 1829)] (bearded dragon lizard; jew lizard). Parasite: *Raillietiella amphiboluri* (female in lungs).

Pogona vitticeps (Ahl, 1926) [= *Amphibolurus vitticeps* Ahl, 1926] (central bearded dragon). Parasite: *Raillietiella amphiboluri*.

SAURIA: AGAMIDAE: DRACONINAE:

Calotes Cuvier, 1817 sp. Parasite: *Kiricephalus pattoni*.

Calotes versicolor (Daudin, 1802) (eastern gardens lizard; oriental golden lizard). Parasites: *Porocephalus clavatus*; *Raillietiella geckonis* (in lungs); *R. gehyrae* (rates of infection in lungs); *R. hemidactyli* (adults in lungs, causing pulmonary pathology); *R. sp.*

SAURIA: CARPHODACTYLIDAE:

Nephruerus laevisissimus Mertens, 1958 (Australian gecko; smooth knob-tail). Parasite: *Raillietiella scincoides* (third stage larvae in large intestine).

SAURIA: CHAMAELEONIDAE:

Chamaeleo namaquensis Smith, 1831 (Namaqua chameleon). Parasite: *Raillietiella ma-buiiae* (adults).

Furcifer oustaleti (Mocquard, 1894) [= *Chamaeleo oustaleti* Mocquard, 1894] (Oustalet's chameleon). Parasites: *Raillietiella chamaeleonis* (adults in pulmonary sacs); *R. hemidactyli*.

Furcifer verrucosus (G. Cuvier, 1829) [= *Chamaeleo verrucosus* Cuvier, 1829] (Malagasy giant chameleon). Parasites: *Raillietiella chamaeleonis* (adults in pulmonary sacs); *R. hemidactyli*; *R. sp.*

SAURIA: DIPLDACTYLIDAE:

Diplodactylus vittatus Gray, 1832 (eastern stone gecko; wood gecko). Parasites: *Porocephalus sp.*; *Raillietiella sp.*; *Waddycephalus sp.*

SAURIA: GEKKONIDAE:

Gehyra australis (Gray, 1845) (house gecko; native gecko; northern dtella; top-end dtella). Parasite: *Raillietiella* sp.

Gehyra mutilata (Wiegmann, 1834) [= *Peropus mutilatus* (Wiegmann, 1834)] (common four-clawed gecko; house gecko; stump-toed gecko). Parasites: *Raillietiella affinis*; *R. gehyrae* (in lungs); *R. hebitihamata*; *R. hemidactyli* (adults).

Gekko Linnaeus, 1758 sp. Parasites: *Raillietiella geckonis* (in lung); *R. gehyrae*; *R. hemidactylus*.

Gekko gekko gekko (Linnaeus, 1758) [= *Gekko verticillatus* Laurenti, 1758] (today gecko; Siamese gecko). Parasites: *Pentastomida* sp. (causing pentastomiasis); *Raillietiella affinis* (in lung); *R. geckonis* (in lungs); *R. indicus* (in lungs).

Gekko monarchus (Schlegel, in Duméril & Bibron, 1836) (spotted house gecko). Parasites: *Raillietiella hebitihamata*; *R. monarchus*.

Gekko smithii Gray, 1842 (green eyed today; large forest gecko). Parasite: *Raillietiella* sp.

Hemidactylus (Gray, 1825) sp. Parasites: *Raillietiella cartagenensis*; *R. sp.*

Hemidactylus angulatus Hallowell, 1852 [= *Hemidactylus brooksi haitianus* Meerwarth, 1901; *Hemidactylus brooksi angulatus* Hallowell, 1852] (Antillean house gecko; Brook's house gecko; Burmese gecko; western house gecko). Parasites: *Kiricephalus pattoni* (in lungs); *Raillietiella affinis* (having pathogenetic effects); *R. hemidactyli* (in lungs); *R. sp. (frenatus?)*; *R. spp.*; *R. teagueselfi*.

Hemidactylus brooksi Gray, 1845 (Brook's house gecko). Parasite: *Raillietiella* sp.

Hemidactylus flaviviridis Rüppell, 1835 (northern house gecko; yellow-belly gecko). Parasite: *Raillietiella geckonis* (adult).

Hemidactylus frenatus Schlegel (in Duméril & Bibron, 1836) (Asian house gecko; chikhak; common house gecko). Parasites: *Pentastomida* sp. (causing pentastomid infections); *Raillietiella gehyrae* (in lungs); *R. hemidactyli* (adults in air sacs and lungs); *Raillietiella indica* (nymphs and adults); *Waddycephalus* sp. (nymphs and adults).

Hemidactylus gleadowi Murray, 1884 [= *Hemidactylus gleadowi* Murray, 1884] (Gleadow's house gecko). Parasites: *Kiricephalus pattoni*; *Raillietiella hemidactylus*.

Hemidactylus leschenaultii Duméril & Bibron, 1836 (bark gecko; Leschenault's leaf-toed gecko). Parasites: *Raillietiella affinis*; *R. maculatus*.

Hemidactylus mabouia (Moreau De Jonnés, 1818) (house gecko; invader lizard). Parasites: *Raillietiella cartagenensis* (in lungs); *R. hebitihamata* (in respiratory tracts of adult hosts only); *R. hemidactyli* (adults); *R. mottae* (causing infection in adult hosts only); *Raillietiella* sp.

Hemidactylus maculatus Duméril & Bibron, 1836 (spotted leaf-toed gecko). Parasite: *Raillietiella maculatus*.

Hemidactylus platyurus Schneider, 1792 [= *Cosymbotus platyurus* (Schneider, 1792)] (flat-tailed house gecko; flattened gecko). Parasites: *Raillietiella gehyrae* (in lungs); *R. hebitihamata* (in lungs).

Hemidactylus turcicus turcicus (Linnaeus, 1758) [= *Hemidactylus turcicus* (Linnaeus, 1758)] (Mediterranean house gecko). Parasites: *Raillietiella furcocercum*; *R. hebitihamata* (causing infection); *R. teagueselfi*.

Heteronotia binoei (Gray, 1845) (Binoe's prickly gecko). Parasite: *Waddycephalus* sp. (encysted nymphs).

Lepidodactylus lugubris (Duméril & Bibron, 1836) (common smooth-scaled gecko; mourning gecko). Parasites: *Raillietiella affinis*; *R. hebitihamata*.

Phelsuma standingi Methuen & Hewitt, 1913 (standing's day gecko). Parasite: Pentastomida sp.

SAURIA: GYMNOPHTHALMIDAE:

Micrablepharus maximiliani (Reinhart & Lütken, 1862) (blue-tailed lizard). Parasite: *Raillietiella mottae* (in lungs).

SAURIA: IGUANIA: DACTYLOIDAE:

Anolis porcatus porcatus Gray, 1840 (Cuban green anole) [= *Anolis porcatus* Gray, 1840]. Parasite: *Linguatula* sp.

Norops sagrei (Duméril & Bibron, 1837) [= *Anolis sagrei* Duméril & Bibron, 1837] (Bahamian brown anole; Cuban brown anole). Parasite: *Raillietiella hebitihamata*.

SAURIA: IGUANIA: TROPIDURIDAE:

Tropidurus hispidus (Spix, 1825) (Peter's lava lizard). Parasites: *Raillietiella hebitihamata*; *R. mottae* (causing pulmonary infection).

Tropidurus semitaeniatus (Spix, 1825) (striped lava lizard). Parasite: *Raillietiella mottae* (causing pulmonary infection).

Tropidurus torquatus (Wied Neuwied, 1820) (Amazon lava lizard; "taraguira"). Parasite: *Raillietiella freitasi*.

SAURIA: LACERTIDAE:

Gallotia atlantica atlantica (Peters & Doria, 1882) [= *Gallotia atlantica* (Peters & Doria, 1882)] (Atlantic lizard). Parasite: *Raillietiella morenoi* (in lung).

SAURIA: PHYLLODACTYLIDAE:

Phyllopezus periosus Rodrigues, 1986. Parasite: *Raillietiella mottae* (causing pulmonary infection).

Phyllopezus pollicaris (Spix, 1825) (Brazilian gecko; Paraíba gecko). Parasite: *Raillietiella mottae* (causing pulmonary infection).

Tarentola annularis (É. Geoffroy de Saint-Hilaire, 1827) (ringed wall gecko; white-spotted gecko). Parasite: *Raillietiella* sp.

SAURIA: PLATYNOTA: VARANIDAE:

Varanus Merrem, 1820 sp. (a monitor lizard). Parasites: *Elenia asutralis* (adults); *Raillietiella kochi*.

Varanus (Odaria). Parasite: pentastomid (intestine).

Varanus exanthematicus (Bosc, 1792) [= *Varanus exanthematicus exanthematicus* (Bosc, 1792); *Varanus exanthematicus ocellatus* Rüppell & Heyden (in Rüppell), 1830; *Varanus ocellatus* Heyden (in Rüppell), 1830] (Bosc's monitor lizard; savannah monitor lizard). Parasites: *Raillietiella* sp.; *R. kochi* (adults in lungs); *Sambonia* sp. n. (eggs, immature stages, and adults in lungs and liver, causing pentastomiasis); *S. lohmanni* (in lungs).

Varanus griseus griseus (Daudin, 1803) [= *Varanus griseus* (Daudin, 1803)] (western desert monitor). Parasites: *Raillietiella kochi* (in lungs); *Sambonia clavata*.

Varanus indicus (Daudin, 1802) (mangrove monitor). Parasites: *Sambonia solomonensis* (adults); *S. varani* (adult in lung).

Varanus komodoensis Ouwens, 1912 (Komodo dragon). Parasite: *Sambonia clavata*.

Varanus niloticus (Linnaeus, 1758) [= *Varanus nilotica* (Linnaeus, 1758)] (Egyptian monitor; Nile monitor lizard; Nilotic monitor; ocellated monitor; water Leguaan). Parasites: *Porocephalus clavatus* (in lungs); *Sambonia clavata*.

Varanus salvator salvator (Laurenti, 1768) [= *Varanus salvator* (Laurenti, 1768)] (common water monitor). Parasites: *Elenia australis* (in lung); *Sambonia clavata*; *S. parapodium* (adults in lung).

Varanus varius (White, 1790) (lace monitor). Parasites: *Elenia australis* (adults in lung).

SAURIA: SCINCIDAE: EGERNIINAE:

Tiliqua scincoides scincoides (White, 1790) [= *Tiliqua scincoides* (White, 1790)] (blue-tongued skink; common blue-tongue). Parasite: *Raillietiella scincoides*.

SAURIA: PYGOPODIDAE:

Lialis jicari Boulenger, 1903 [= *Liasis jicari* Boulenger, 1903] (Papua snake lizard). Parasite: *Elenia liasisi*.

SAURIA: SCINCIDAE: MABUYINAE:

Brasiliscincus agilis (Raddi, 1823) [= *Mabuya agilis* Raddi, 1823] (a skink). Parasite: *Raillietiella* sp.

Copeoglossum arajara (Rebouças-Spieker, 1981) [= *Mabuya arajara* Rebouças-Spieker, 1981] (Arajara mabuya). Parasite: *Raillietiella mottae*.

Eutropis carinata (Schneider, 1801) [= *Mabuya carinata* (Schneider, 1801)] (keeled Indian mabuya; common skink; many-keeled grass skink). Parasites: *Raillietiella gehyrae* (direct life cycle); *R. hemidactyli*; *R. maculatus*.

Eutropis longicaudata (Hallowell, 1857) [= *Mabuya longicaudata* (Hallowell, 1857)] (longtail mabuya). Parasite: *Raillietiella hebitihamata*.

Psychosaura macrorhyncha (Hoge, 1946) [= *Mabuya macrorhyncha* Hoge, 1946] (a skink). Parasite: *Raillietiella* sp.

Trachylepis homalocephala (Wiegmann, 1828) [= *Mabuya homalocephala* (Wiegmann, 1828)] (red-slided skink). Parasites: *Raillietiella gehyrae*; *R. mabuya*.

Trachylepis atlantica (Schmidt, 1945) [= *Mabuya punctata* (Gray, 1839); *Trachylepis atlanticus* (Schmidt, 1945); *Trachylepis maculata* (Gray, 1839)] (a skink). Parasite: *Raillietiella freitasi* (in lung).

Trachylepis maculilabris (Gray, 1839) [= *Mabuya maculilabris* (Gray, 1839)] (speckle-lipped mabuya). Parasite: *Raillietiella maculilabris*.

Trachylepis striata striata (Peters, 1844) [= *Mabuya striata* (Peters, 1844)] (African styriped mabuya, a scincid lizard). Parasites: *Raillietiella gehyrae* (evidence for direct life cycle in lungs); *R. maculilabris*.

Trachylepis sulcata (Peters, 1867) [= *Mabuya sulcata* (Peters, 1867)] (African skink; western rock skink). Parasite: *Raillietiella mabuiiae* (adults in lung).

SAURIA: SCINCIDAE: SCINCINAE:

Chalcides sepsoides (Audouin, 1829) (elongated barrel skink; sand skink; wedge-snouted skink). Parasites: *Raillietiella aegyptii*; *R. affinis* (adults).

Eumeces schneideri schneideri (Daudin, 1802) [= *Eumeces schneiderii* (Daudin, 1802)] (golden skink; Schneider's skink). Parasites: *Raillietiella aegyptii*; *R. affinis* (adults).

Scincus scincus (Linnaeus, 1758) [= *Scincus officinalis* Laurenti, 1768] (sand fish skink). Parasites: *Raillietiella aegyptii*; *R. affinis* (adults).

SAURIA: SCINCIDAE: SPHENOMORPHINAE:

Ctenotus taeniolatus (White, 1790) [= *Lygosoma taeniolatum* White, 1790] (Australian striped skink; copper-tailed ctenotus). Parasites: *Porocephalus* sp.; *Waddycephalus* sp.

Hemiergis decresiensis decresiensis (Cuvier, 1829) [= *Hemiergis decresiensis* (Cuvier,

1829)] (three-toed earless skink). Parasite: *Waddycephalus* sp. (encysted nymph).

Prasinohaema virens (Peters, 1881) (green tree skink). Parasite: *Raillietiella hebitihamata*.

Sphenomorphus Fitzinger, 1843 spp. (scincid skinks). Parasite: *Kiricephalus* sp. (nymphs).

Sphenomorphus indicus (Gray, 1853) (Himalayan forest skink; Indian forest skink). Parasite: *Raillietiella hebitihamata*.

Sphenomorphus jobiensis (Meyer, 1874) (New Guinean skink). Parasite: *Kiricephalus* sp. (in intestine).

Sphenomorphus simus (Sauvage, 1879) (a skink). Parasite: *Kiricephalus* sp.

SAURIA: SPHAERODACTYLIDAE:

Gonatodes Fitzinger, 1843 sp. Parasite: *Raillietiella cartagenensis*.

SAURIA: TEIIDAE:

Cnemidophorus abaetensis E.J.R. Dias, Rocha & Vrcibradic, 2002 (Bahian sand dune lizard). Parasite: *Raillietiella* aff. *furcocerca*.

Cnemidophorus ocellifer (Spix, 1825) (Spix's whiptail). Parasite: *Raillietiella* aff. *furcocerca*.

Dracaena guianensis Daudin, 1802 (a teiid reptile: Guyana Caiman lizard; northern Caiman lizard). Parasite: *Porocephalus clavatus* (young stages).

"*Podinema* sp.n.". Parasite: *Leiperia gracilis*.

"*Podinema nattereri* (Diesing, 1850)". Parasite: *Leiperia gracilis*. Remarks: *Podinema nattereri* (Diesing, 1850) has not been confirmed as a valid name by Heymons (1935: 169) nor herein. It does not appear in Reptile Database (2012).

Tupinambis teguixin (Linnaeus, 1758) [= *Podinema teguixin* (Linnaeus, 1758)] (a monitor lizard: black tegu; common teguixin; golden tegu; great tegu; "teiu"). Parasites: *Leiperia gracilis*; *Porocephalus crotali* (immature specimen); *Sambonia clavata* (in body cavity); *S. oxycephalum* (young stages); *S. wardi*.

SERPENTES (snakes):

"*Urocralon catesbyanum* Fitzinger, 1843". Parasite: *Porocephalus crotali* (adult). Remarks: Not validated by Heymons (1935: 174). Not cited in Reptile Database (2012).

SERPENTES: CAENONOPHIDIA: ACROCHORDIDAE:

Acrochordus granulatus (Schneider, 1799) (little filesnake; marine file snake; wart snake). Parasites: *Armillifer pomeroyi*; *Sambonia clavata* (adults).

SERPENTES: COLUBRIDAE: COLUBRINAE:

Chironius carinatus (Linnaeus, 1758) [= *Herpetodryas carinatus* Garman, 1887] (golden tree-snake; sipo; "cobra-cipó"; "acutimbóia"). Parasite: *Kiricephalus coarctatus* (in lung).

Coelognathus helena (Daudin, 1803) [= *Coluber helena* Daudin, 1803; *Elaphe helena* (Daudin, 1803)] (common trinket snake). Parasite: *Raillietiella orientalis*.

Coelognathus radiatus Boie, 1827 [= *Elaphe radiata* (Boie, 1827)] (copperhead ratsnake; radiated rattlesnake). Parasite: *Waddycephalus radiata* (female).

Coluber Linnaeus, 1758 sp. Parasites: *Raillietiella orientalis* (adult); *Leiperia gracilis*; *Sebekia oxycephalum* (larvae).

Coluber constrictor constrictor Linnaeus, 1758 [= *Bascanion constrictor* Baird & Girard, 1853; *Coluber constrictor*; Linnaeus, 1758; *Zamenis constrictor* (Linnaeus, 1758)] (American black snake; eastern racer; northern black racer). Parasites: *Kiricephalus coarctatus* (in lung); *K. constrictor* (in lungs); *Raillietiella bicaudatus*; *R. furcocercum* (in lungs).

Coluber constrictor flaviventris Say, 1823 [= *Coluber flaviventris* Say, 1823; *Zamenis flaviventris* (Say, 1823)] (eastern yellowbelly racer). Parasites: *Kiricephalus coarctatus*; *Raillietiella furcocercum*.

Coluber flagellum Shaw, 1802 [= *Coluber flagelliformis* (Duméril & Bibron, 1854); *Zamenis flagelliformis* Duméril & Bibron, 1854] (eastern coachwhip). Parasite: *Kiricephalus coarctatus* (in lungs).

Crotaphopeltis hotamboeia (Laurenti, 1768) [= *Crotaphopeltis hotamboeia hotamboeia* (Laurenti, 1768)] (red-lipped snake). Parasite: *Raillietiella boulengeri* (adults).

Dendrelaphis calligastra (Günther, 1867) [= *Ahaetulla calligaster* (Günther, 1867); *Ahaetulla calligastra* (Günther, 1867)] (green treesnake; northern tree snake; painted bronze snake). Parasites: *Kiricephalus pattoni* (in lung); *Waddycephalus calligaster* (female); *W. terestiusculus*.

Dendrelaphis pictus pictus (Gmelin, 1789) [= *Dendrophis pictus* (Gmelin, 1789)] (common bronze-black; Indonesian bronze-black; painted bronze back). Parasite: *Waddycephalus komodoensis*.

Dendrelaphis punctulatus (Gray, 1826) [= *Dendrophis punctulata* (Gray, 1826); *Dendrophis punctulatus* (Gray, 1826)] (common tree snake; green tree snake). Parasite: *Waddycephalus punctulatus* (adults in lung).

Dinodon semicarinatum (Cope, 1860) [= *Dinodon semicarinatus* (Cope, 1860)] (Loo-Choo big toothed snake; Ryukyu odd-tooth snake). Parasite: *Raillietiella orientalis*.

Drymarchon corais corais (Boie, 1827) [= *Coluber corais* Boie, 1827; *Drymarchon corais* (Boie, 1827)] (corais snake; Couper's snake; "papa-ovo"). Parasites: *Kiricephalus coarctatus* (in lungs); *Raillietiella furcocercum*.

Drymarchon couperi (Holbrook, 1842) [= *Drymarchon corais couperi* (Holbrook, 1842); *Elaphe corais couperi* (Holbrook, 1842)] (Couper's snake; eastern indigo snake). Parasites: *Kiricephalus coarctatus* (in lungs); *Raillietiella bicaudata* (adults).

Elaphe carinata carinata (Günther, 1864) [= *Elaphe carinata* (Günther, 1864)] (keeled rattlesnake; king rattlesnake; Taiwan stink snake). Parasite: *Raillietiella orientalis*.

Elaphe quatuorlineata quatuorlineata (Bonnaterre, 1790) [= *Elaphe quatuorlineata* (Bonnaterre, 1790)] (four-lined ratsnake). Parasite: *Raillietiella orientalis*.

Hapsidophrys smaragdina (Schlegel, 1837) [= *Gastropyxis smaragdina* (Schlegel, 1837)] (emerald snake). Parasite: *Raillietiella boulengeri* (larvae).

Hemorrhois ravergieri ravergieri (Ménétries, 1832) [= *Coluber ravergieri* Ménétries, 1832; *Zamenis ravergieri* (Ménétries, 1832)] (spotted whip snake). Parasite: *Raillietiella boulengeri* (adults).

Hierophis gemonensis (Laurenti, 1768) [= *Coluber gemonensis* (Laurenti, 1768); *Zamenis gemonensis* Laurenti, 1768] (Balkan racer; Balkan whip snake; dark-green snake). Parasite: *Raillietiella mediterranea* (in lung).

Leptophis ahaetulla liocercus (Wied Neuwied, 1824) [= *Leptophis liocercus* (Wied Neuwied, 1824)] (parrott snake). Parasite: *Cephalobaena tetrapoda* (in lungs).

Liophis miliaris (Linnaeus, 1758) [= *Rhadinea fusca* Cope, 1891] (a water colubrid; military ground snake; "cobra-lisa"). Parasite: *Raillietiella furcocercum* (in lungs).

Liophis poecilogyrus (Wied-Neuwied, 1825) (cobra-de-capim). Parasite: *Raillietiella* sp.

Liophis reginae reginae (Linnaeus, 1758) [= *Leimadophis reginae* Linnaeus, 1758] (a small reticulate snake; royal ground snake; "jabutibóia"). Parasite: *Raillietiella* sp.

Lycodon rushtrati rushtrati (Fischer, 1886) (Formosa wolf snake). Parasite: *Kiricephalus pattoni*.

Mastigodryas bifossatus bifossatus (Raddi, 1820) [= *Dryadophis bifossatus* (Raddi, 1820); *Drymobius bifossatus* Raddi, 1820; *Coluber lichtensteinii* Wiedl-Neuwied, 1824; *Mastigodryas bifossatus* (Raddi, 1820)] (Rio tropical racer; "cobra-nova"). Parasites: *Armillifer armillatus* (nymphs); *Kiricephalus coarctatus* (nymphs in lungs and body cavity); *Porocephalus crotali*; *Raillietiella furcocercum* (larvae in mesenteries).

Mastigodryas boddaerti boddaerti (Sentzen, 1796) [= *Drymobios boddaerti* Sentzen, 1796; *Mastigodryas boddaerti* (Sentzen, 1796)] (Bodaert's tropical racer; "biru-listrada"). Parasites: *Kiricephalus* sp.; *Raillietiella furcocercum*.

Oligodon cruentatus (Günther, 1868) [= *Simotes cruentatus* Günther, 1868] (pegu kukri snake). Parasite: *Kiricephalus pattoni* (immature forms in mesentery and in connective tissues of stomach).

Oligodon pupurascens (Schlegel, 1837) (brown kukri snake). Parasite: *Kiricephalus pattoni* (immature forms in body cavity).

Oxybelis aeneus (Wagler, 1824) (brown vine snake; Mexican vine snake; "bicuda"). Parasites: *Cephalobaena tetrapoda*; *Raillietiella furcocercum*.

Pituophis melanoleucus melanoleucus (Daudin, 1803) [= *Coluber melanoleucus* Daudin, 1803; *Elaphe melanoleucus* (Daudin, 1803); *Pituophis melanoleucus melanoleucus* (Daudin, 1803)] (eastern pine snake; northern pine snake; Mexican snake). Parasites: *Kiricephalus coarctatus* (juvenile); *Raillietiella bicaudata*; *R. furcocercum* (in lungs).

Platycephalus karelini (Brandt, 1838) (spotted desert racer). Parasite: *Porocephalus crotali*.

Platycephalus najadum (Eichwald, 1831) [= *Coluber dahlhi* Fitzinger, 1827] (slender whip snake; Dahl's wiper snake). Parasite: *Raillietiella mediterranea* (in lung).

Pseustes sulphureus (Wagler, 1824) [= *Phrynomax sulphureus* (Wagler, 1824)] (Amazon puffing snake; yellow-bellied puffing snake; "limpa-campo"). Parasite: *Raillietiella furcocercum* (in lungs).

Ptyas Fitzinger, 1843 sp. (a rat-snake). Parasite: *Kiricephalus pattoni*.

Ptyas korros (Schlegel, 1837) [= *Coluber korros* Schlegel, 1837; *Zamenis korros* (Schlegel, 1837)] (Chinese rat snake; Indian rat-snake). Parasites: *Kiricephalus pattoni* (in lungs); *Porocephalus crotali*.

Ptyas mucosa (Linnaeus, 1758) [= *Coluber mucosus* Linnaeus, 1758; *Ptyas mucosus* (Linnaeus, 1758); *Zamenis mucosus* Linnaeus, 1758] (Dhaman; Indian rat-snake; oriental rat-snake). Parasites: *Kiricephalus pattoni* (adult in mesentery, stomach, liver, and lungs); *Porocephalus crotali* (adults in lungs); *Raillietiella orientalis* (larvae in body wall, intestine, pleurae, liver, tracheae, and lungs).

Spilotes Wagler, 1830 sp. (a tropical rat snake). Parasite: *Raillietiella furcocercum* (in lung).

Spilotes pullatus pullatus Linnaeus, 1758 [= *Spilotes pullatus* Linnaeus, 1758] (chicken snake; South American ratsnake; tigre snake; whip snake; yellow ratsnake; "carinana"). Parasites: *Porocephalus crotali* (in lung); *P. stilesi*; *Sambonia wardi*; *Sebekia oxycephalum* (larvae).

Thelotornis capensis oatesi (Günther, 1881)] (Oat's vine snake; twig snake). Parasite: *Raillietiella congolensis* (adults).

Thelotornis kirtlandi (Hallowell, 1844) (bird snake; forest vine snake; twig snake). Parasite: *Raillietiella boulengeri* (adults).

Thrasops jacksonii Günther, 1895 [= *Thrasops jacksoni jacksoni* Günther, 1895] (Jackson's black tree snake). Parasites: *Raillietiella boulengeri* (adults).

SERPENTES: COLUBRIDAE: DIPSADINAE:

Clelia clelia (Daudin, 1803) (mussurana snake; "muçarana"). Parasites: *Kiricephalus clellii* (in lung); *Raillietiella furcocercum* (egg and larva).

Coniophanes imperialis (Kennicott, in Baird, 1859) [= *Boa constrictor imperialis* (Kennicott, in Baird, 1859)] (black-stripped snake; tamaulipan black-striped snake). Parasite: *Porocephalus clavatus* (eggs and nymphs).

Conophis lineatus (Duméril, Bibron & Duméril, 1854) (road guarder). Parasite: *Raillietiella furcocercum*.

Farancia abacura abacura (Holbrook, 1836) [= *Farancia abacura* (Holbrook, 1836) (eastern abacura; mud snake). Parasite: *Sebekia oxycephalum* (larvae).

Helicops angulatus (Linnaeus, 1758) (mountain keelback, a water snake). Parasite: *Porocephalus stilesi* (adults in lungs).

Helicops leopardinus (Schlegel, 1837) [= *Helicops leopardina* (Schlegel, 1837)] (leopard keelback). Parasite: *Sebekia* sp.

Heterodon Latreille & Sonnin, 1801 sp. (North American hose-nosed snake). Parasite: *Sebekia oxycephalum* (larva).

Hydrodynastes bicinctus bicinctus (Herrmann, 1804) [= *Hydrodynastes bicinctus* (Herrmann, 1804)] (Herrmann's water snake; "cobra-d'água"). Parasite: *Kiricephalus coarctatus* (nymphs in lungs and body cavity).

Hydrodynastes gigas (Duméril, Bibron & Duméril, 1854) (Brazilian smooth snake; false water cobra). Parasites: *Porocephalus* sp. (infestation by nymphs); *P. crotali* (adult in lung).

Lygophis lineatus (Linnaeus, 1758) [= *Aporophis lineatus* (Linnaeus, 1758); *Coluber lineatus* Linnaeus, 1758]; *Liophis lineatus* (Linnaeus, 1758) (erroneous spelling)] (lined ground snake). Parasites: *Cephalobaena tetrapoda* (in respiratory tract); *Kiricephalus coarctatus*; *Raillietiella colubrilineati*.

Philodryas baroni Berg, 1895 (Baron's green racer; Paraguayan tree snake). Parasite: *Cephalobaena tetrapoda* (in lung).

Philodryas chamissonis (Wiegmann, 1835) (Chilean green racer; Chilean long-tailed snake). Parasite: *Raillietiella* sp.

Philodryas nattereri Steindachner, 1870 (Paraguayan green racer). Parasites: *Cephalobaena tetrapoda* (in lungs, pulmonary peritoneum, and tracheae); *Raillietiella furcocercum*.

Pseudoeryx plicatilis plicatilis (Linnaeus, 1758) [= *Dimades plicatilis* (Linnaeus, 1758); *Pseudoeryx plicatilis* (Linnaeus, 1758)] (eel-snake; South American pond snake). Parasite: *Sebekia oxycephalum* (larva).

Thamnodynastes chaquensis (Bergna & Alvarez, 1993) ("falsa-jararaca"). Parasite: *Raillietiella furcocercum*.

Xenodon merremii (Wagler, 1824) [= *Ophis merremi* Wagler, 1824; *Ophis merremii* Wagler, 1824] (Wagler's snake; "boipeva"). Parasites: *Porocephalus crotali* [doubtful identification, probably *Kiricephalus coarctatus*] (in tracheae); *Raillietiella furcocercum*; *Sambonia wardi*; *Sebekia oxycephalum* (larvae).

SERPENTES: COLUBRIDAE: NATRICINAE:

Amphiesma pryeri (Boulenger, 1887 [= *Natrix pryeri pryeri* Boulenger, 1887] (Pryer's keelback). Parasite: *Raillietiella orientalis*.

Amphiesma stolatum (Linnaeus, 1758) [= *Natrix stolatus* (Linnaeus, 1758); *Tropidonotus stolatus* (Linnaeus, 1758)] (buff-striped keelback). Parasite: *Kiricephalus pattoni* (immature forms in body cavity).

Natrix natrix (Linnaeus, 1758) [= *Tropidonotus natrix* (Linnaeus, 1758) (European grass snake). Parasites: *Armillifer moniliformis moniliformis* (larva); *Porocephalus clavatus* (larva).

Nerodia fasciata fasciata (Linnaeus, 1766) [= *Tropidonotus fasciatus* (Linnaeus, 1766)] (American mocassin; banded water snake; mocassin snake; southern water snake). Parasite: *Kiricephalus coarctatus* (in lung). Remarks: Diesing (1850) cites *Pentastoma gracile* from *Cloelia fasciata*, a species not recognized by Heymons (1935).

Nerodia floridana (Goff, 1936) [= *Natrix cyclopion floridana* Gott, 1936] (Florida green water snake). Parasite: *Kiricephalus coarctatus* (larvae).

Nerodia taxipilota (Holbrook, 1838) (brown water snake). Parasite: *Sebekia mississippiensis* (experimental infection).

Rhabdophis tigrinus (F. Boie, 1826) [= *Natrix tigrina lateralis* (Berthold, 1859)] (tiger keelback). Parasite: *Kiricephalus pattoni* (in flesh and viscera).

Thamnophis proximus proximus (Say, 1823) [= *Thamnophis proximus* (Say, 1823)] (red-stripe ribbon snake; western ribbon snake). Parasite: *Kiricephalus coarctatus* (in lung).

Tropidonophis picturatus (Schlegel, 1837) [= *Tropidonotus picturatus* (Schlegel, 1837)] (painted keelback, a water snake). Parasite: *Armillifer moniliformis moniliformis*.

Xenochrophis piscator (Schneider, 1799) [= *Natrix piscator* (Schneider, 1799); *Tropidonotus piscator* Schneider, 1799] (Asiatic water snake; chequered keelback; Indian water-snake). Parasites: *Kiricephalus pattoni* (nymphs and immature forms in body cavity); *Pentastomida* sp.; *Raillietiella orientalis* (larva encysted in liver and lung; adult in liver and lung); *R. piscator* (in lung).

Xenochrophis punctulatus (Günther, 1858) [= *Nerodia punctata* Günther, 1858 (erroneous spelling)]. Parasite: *Kiricephalus pattoni* (immature forms in body cavity).

SERPENTES: ELAPIDAE:

Austrelaps superbus (Günther, 1858) [= *Denisonia superba* (Günther, 1858); *Hoplocephalus superbus* (Günther, 1858)] (Australian copperhead snake; ground-dwelling copperhead snake; lowlands copperhead). Parasites: *Linguatula* sp. (in lung); *Parasambonia* sp.; *P. minor* (adults); *Waddycephalus* sp.; *W. superbus* (adults in lung); *W. terestiusculus* (in mouth).

Bungarus fasciatus (Schneider, 1801) (rat snake; banded krait). Parasites: *Kiricephalus pattoni* (larvae in mesentery and stomach); *Raillietiella orientalis* (in coelom; larvae in fat body, connective tissue of back, and lung).

Bungarus multicinctus Blyth, 1861 [= *Bungarus candidus multiscinctus* Blyth, 1861] (Taiwanese many-banded krait). Parasite: *Raillietiella orientalis* (adults in lungs, larvae in connective tissue of back and of lungs).

Cryptophis nigrescens (Günther, 1862) (eastern small-eyed snake; short-tailed snake). Parasite: *Waddycephalus* sp. (nymphs encysted in intestinal connective tissue).

Demansia Gray, 1842 sp. Parasite: *Waddycephalus longicaudata*.

Demansia psammophis psammophis (Schlegel, 1837) [= *Demansia psammophis* (Schlegel, 1837); *Diemenia psammophis* (Schlegel, 1837); *Diemenia reticulata* (Gray, 1842)] (brown snake; grey whip-snake; yellow faced whip-snake). Parasites: *Parasambonia bridgesi* (female); *Waddycephalus longicaudata* (adults in lung); *W. terestiusculus*.

Dendroaspis jamesoni jamesoni (Traill, 1843) [= *Dendraspis jamesoni* (Traill, 1843)] (Jameson's green mamba; trail green mamba; western green mamba). Parasite: *Raillietiella boulengeri* (adults).

Drysdalia coronoides (Günther, 1858) (white-lipped snake). Parasite: *Waddycephalus* sp. (adults in lungs).

Hemachatus haemachatus (Bonnaterre, 1790) [= *Sepedon haemachates* (Bonnaterre, 1789)] (ringhaus; ring-necked spitting cobra). Parasites: *Armillifer armillatus* (adults); *Raillietiella boulengeri* (adults).

Micrurus Wagler, 1824 sp. [= *Elaps* Merrem, 1820 sp.]. Parasites: *Leiperia gracilis*; *Sekbia oxycephalum* (larvae).

Micrurus fulvius (Linnaeus, 1766) [= *Elaps fulvius* (Linnaeus, 1766)] (American cobra; bead-snake; common coral snake; eastern coral snake; Harlequin coral snake; Harlequin snake; "cobra-coral"). Parasite: *Kiricephalus coarctatus* (juveniles in subcutaneous muscles).

Micrurus ibiboboca (Merrem, 1820) (caatinga coral snake). Parasite: *Raillietiella* sp.

Micrurus tshudii tshudii Jan, 1858 [= *Helicops tshudii* (Jan, 1858)] (desert coral snake). Parasite: *Leiperia gracilis*.

Naja Laurenti, 1768 sp. Parasite: *Porocephalus benoiti* (in intestine).

Naja anchietae Bocage, 1879 (cobra). Parasite: *Cubirea annulatus* (female).

Naja atra Cantor, 1842 [= *Naja naja atra* (Cantor, 1842)]. Parasite: *Raillietiella orientalis*.

Naja kaouthia Lesson, 1831 [= *Naja naja kaouthia* Lesson, 1831] (monocellate cobra; monocled cobra). Parasite: *Raillietiella orientalis*.

Naja melanoleuca Hallowell, 1857 (black and white cobra; black-lipped cobra). Parasites: *Cubirea annulata* (adults); *C. pomeroyi* (adults in lungs); *Raillietiella boulengeri* (adults).

Naja naja (Linnaeus, 1758) [= *Naia haie* (Linnaeus, 1758) (erroneous spelling); *Naja hage* (Linnaeus, 1758) (erroneous spelling); *Naja haje* (Linnaeus, 1758); *Naia tripudians* Merrem, 1820 (erroneous spelling); *Naja tripudians* Merrem, 1820] (Egyptian cobra; golden cobra; Indian cobra). Parasites: *Armillifer armillatus* (adults); *A. stilesi* (adults in larynx); *Cubirea annulata* (nymphs encysted in muscles and over peritoneum; young and adult in lung); *C. pomeroyi* (in lung); *Porocephalus subuliferum* (young forms in larynx and lungs); *Raillietiella agcoi*; *R. orientalis* (larvae in connective tissue and coelom).

Naja nigricollis Reinhardt, 1843 [= *Naia nigricollis* Reinhardt, 1843 (erroneous spelling); *Naja nigricollis nigricollis* Reinhardt, 1843; *Naja atriceps* (Fischer, 1885); *Naja naja atriceps* (Fischer, 1885)] (black cobra; black-necked spitting cobra). Parasites: *Cubirea annulata* (adults); *C. pomeroyi* (adults in gut); *Raillietiella agcoi*; *R. boulengeri* (adults).

Naja philippinensis Taylor, 1922 [= *Naja naja philippinensis* Taylor, 1922] (Philippine cobra). Parasites: *Raillietiella agcoi* (in lungs); *R. orientalis* (causing hyper-infection).

Naja sputatrix Boie, 1827 [= *Naja tripudians sputatrix* Boie, 1827]. (Indonesian cobra). Parasite: *Raillietiella orientalis*.

Notechis Boulenger, 1896 sp. (a tiger snake). Parasite: *Waddycephalus* sp.

Notechis scutatus scutatus (Peters, 1861) [= *Notechis ater niger* (Kingshorn, 1921); *Notechis scutatus* (Peters, 1861)] (black tiger snake; eastern tiger snake; mainland tigersnake). Parasites: *Waddycephalus* sp. (adults in lung); *W. scutata*; *W. terestiusculus*.

Pseudechis sp. Wagler, 1830. Parasite: *Parasambonia* sp.

Pseudechis australis (Gray, 1842) (king brown snake; mulga snake). Parasite: *Raillietiella* sp.

Pseudechis porphyriacus porphyriacus (Shaw, 1794) [= *Pseudechis porphyriacus* (Shaw, 1794); *Pseudechis porphyrineus* (Shaw, 1794) (erroneous spelling)] (Australian black snake; red-bellied black snake). Parasites: *Parasambonia bridgesi* (adults in lungs); *Waddycephalus longicaudata*; *W. porphyriacus* (adults); *W. terestiusculus* (in lungs).

Pseudonaja nuchalis Günther, 1858 (gwardar; western brown snake). Parasite: *Waddycephalus longicauda* (in lung).

Pseudonaja textilis textilis (Duméril, Bibron & Duméril, 1854) [= *Diemenia textilis* Duméril, Bibron & Duméril, 1854; *Pseudonaja textilis* (Duméril, Bibron & Duméril, 1854)] (eastern brown snake). Parasites: *Raillietiella* sp.; *Waddycephalus* sp. (female); *W. porphyriaceus*; *W. terestiusculus* (in lungs).

Tropidechis carinatus (Krefft, 1863) (Clarence river snake; rough-scaled snake). Parasite: *Sambonia bridgei* (female).

SERPENTES: HENOPHIDIA: ANILIIDAE:

Anilius scytale (Linnaeus, 1758) [= *Ilysia scytgale* Linnaeus, 1758] (false coral snake; red pipe snake). Parasite: Pentastomida sp.

SERPENTES: HENOPHIDIA: BOIDAE:

Acrantophis dumerili Jan, 1860 (Dumeril's ground boa). Parasites: *Gigliolella brumpti*; *Raillietiella tetrapoda* (male in air sacs).

Acrantophis madagascariensis (Duméril & Bibron, 1844) [= *Boa madagascariensis* Duméril & Bibron, 1844] (Madagascar ground boa). Parasite: *Armillifer moniliformis moniliformis* (larvae).

Sanzinia madagascariensis madagascariensis (Duméril & Bibron, 1844) [= *Corallus madagascariensis* (Duméril & Bibron, 1844); *Sanzinia madagascariensis* (Duméril & Bibron, 1844)] (Madagascar ground boa; Madagascar tree boa). Parasites: *Gigliolella brumpti* (adults in lungs); *Kiricephalus pattoni* (in lungs).

SERPENTES: HENOPHIDIA: BOIDAE: BOINAE:

Boa constrictor Linnaeus, 1758 (boa constrictor; common boa; "gibóia"). Parasites: *Kiricephalus coarctatus* (in lung); *Porocephalus clavatus* (adults in lungs, causing pentastomiasis); *P. crotali* (adults in lungs); *Raillietiella furcocercum* (in lungs); *Sambonia wardi*; *Sebekia oxycephalum* (larvae).

Boa constrictor amarali (Stull, 1932) (short-tailed boa). Parasite: *Porocephalus* sp.

Boa constrictor imperator Daudin, 1803 [= *Boa imperator* Daudin, 1803] (emperor boa; "cobra-de-veado"). Parasites: *Porocephalus clavatus* (adults in lungs); *P. crotali* (adults in lungs and body cavity); *Raillietiella furcocercum* (in lungs).

Boa constrictor nebulosa (Lazell, 1964) [= *Constrictor constrictor nebulosus* Lazell, 1964] (Dominican clouded boa). Parasite: *Porocephalus dominicana* (females in lungs).

Candoia carinata (Schneider, 1801) [= *Engyrus carinatus* (Schneider, 1801)] (carinata; New Guinea tree boa; Pacific boa). Parasite: *Diesingia* sp.

Epicrates angulifer Bibron, 1843 [= *Boa brachyura*] (Cuban boa; pale-headed tree-boa). Parasite: *Porocephalus clavatus* (in lungs).

Epicrates cenchria cenchria (Linnaeus, 1758) [= *Epicrates cenchria* (Linnaeus, 1758); *Epicrates cenchris* (Linnaeus, 1758) (erroneous spelling)] (Brazilian rainbow boa; "boa arco-iris"). Parasite: *Porocephalus clavatus* (in lungs).

Epicrates crassus (Cope, 1862) (Paraguayan rainbow boa; "salamanta"). Parasite: *Porocephalus clavatus* (in lungs).

Eunectes murinus (Linnaeus, 1758) [= *Eunectes scytale* (Linnaeus, 1758)] (green anaconda; sucuri; water boa). Parasites: *Porocephalus clavatus* (larva); *P. crotali* (in lung); *Sambonia wardi*; *Leiperia gracilis*; *Sebekia oxycephalum* (larva).

SERPENTES: HENOPHIDIA: PYTHONIDAE:

Aspidites melanocephalus (Krefft, 1864) (black-headed python). Parasite: *Waddycephalus longicaudata* (adults).

Broghammerus reticulatus (Schneider, 1801) [= *Python reticulatus* (Schneider, 1801)] (Asiatic reticulated python; netted snake; regal python). Parasites: *Armillifer armillatus* (adult); *A. moniliformis heymonsii* (adults in lung); *A. moniliformis moniliformis* (adult in lungs); *Cubirea pomeroyi*; *Raillietiella orientalis* (in body cavity).

Morelia amethystina (Schneider, 1801) [= *Liasis amethystinus* (Schneider, 1801); *Python amethystinus* Schneider, 1801] (amethystine; scrub python). Parasites: *Armillifer australis* (adults in lung); *A. mazzai* (females); *A. moniliformis moniliformis*; *Elenia liasisi* (in body cavity).

Morelia spilota spilota (Lacépède, 1804) [= *Morelia spilota* (Lacépède, 1804); *Python spilotes* (Lacépède, 1804)] (carpet python; diamond python). Parasites: *Armillifer australis* (in lung); *Armillifer moniliformis moniliformis*; *Kiricephalus coarctatus*; *K. pattoni*.

Morelia spilota variegata Gray, 1842 [= *Morelia spilotes variegata* Gray, 1842] (carpet python). Parasites: *Waddycephalus porphyriacus* (adults); *Waddycephalus* sp. (female in lung).

Morelia viridis (Schlegel, 1872) [= *Chondropython viridis* (Schlegel, 1872)] (Papua green tree python). Parasite: *Armillifer arborealis* (adults).

Python bivittatus Kuhl, 1820 [= *Python bivittata* Kuhl, 1820] (Burmese python). Parasite: *Armillifer armillatus*.

Python molurus (Linnaeus, 1758) [= *Python tigris* Daudin, 1803] (Indian python). Parasites: *Armillifer agkistrodontis* (adult); *A. armillatus* (adult); *A. moniliformis moniliformis* (adult males in lungs); *A. yoshidai*; *Porocephalus crotali* (adults in lungs and body cavity); *Raillietiella orientalis*.

Python regius (Shaw, 1802) (ball python; royal python). Parasites: *Armillifer armillatus* (adults in lungs); *Raillietiella boulengeri* (adults).

Python sebae (Gmelin, 1788) (African rock python; west African python). Parasites: *Armillifer armillatus* (adults in lungs); *A. armillatus intermedius*; *A. moniliformis moniliformis* (adults in lung).

Python sebae natalensis A. Smith, 1833 [= *Python natalensis* A. Smith, 1833] (African rock python). Parasite: *Armillifer armillatus*.

SERPENTES: HENOPHIDIA: UROPELTIDAE:

Plectrurus perrotetii Duméril, Bibron & Duméril, 1854 (Nilgiri burrowing snake; Perrotet's shieldtail snake). Parasite: *Kiricephalus pattoni* (in flesh and viscera).

SERPENTES: HOMALOPSIDAE:

Pseudoferania polylepis (Fischer, 1886) [= *Enhydryis polylepis* (Fischer, 1886)] (Macleay's water snake; smooth water snake). Parasite: *Armillifer mazzai* (females).

SERPENTES: LAMPROPELTINI: COLUBRIDAE: COLUBRINAE:

Bogertophis subocularis (Brown, 1901) [= *Elaphe subocularis* Brown, 1901] (trans-pecos rat snake). Parasite: *Raillietiella* sp.

Boiga irregularis (Bechstein, 1802) [= *Dipsadomorphus irregularis* (Bechstein, 1802)]. (brown cat snake; brown tree-snake). Parasites: *Armillifer aboreal*; *Kiricephalus tortus* (adults).

Lampropeltis getula (Linnaeus, 1766) [= *Lampropeltis getulus* (Linnaeus, 1766); *Lampropeltis getulus floridana* Blanchard, 1919; *Ophibolus getulus* Linnaeus, 1766; *Ophibolus getula* Linnaeus, 1766; *Ophibolus* [sic] (common kingsnake; Florida kingsnake; chain kingsnake; common kingsnake; eastern kingsnake). Parasites: *Kiricephalus coarctatus* (larvae, in lungs); *Raillietiella bicaudata* (adults).

SERPENTES: LAMPROPHIIDAE:

Boaedon lineatus Duméril, Bibron & Duméril, 1854 [= *Boaedon lineatus lineatus* Duméril, Bibron & Duméril, 1854] (striped house snake). Parasites: *Armillifer armillatus*; *Raillietiella boulengeri* (adults).

Boaedon olivaceus (Duméril, 1856) (olive house snake; striped house snake). Parasite: *Raillietiella boulengeri* (adults).

Psammodynastes pulverulentus pulverulentus (H. Boie, 1827) [= *Psammodynastes pulverulentus* (H. Boie, 1827)] (common mock viper). Parasite: *Raillietiella orientalis*.

SERPENTES: LAMPROPHIIDAE: APARALLACTINAE:

Polemon gabonsensis (A.H.A. Duméril, 1856) [= *Miodon gabonenses* A.H.A. Duméril, 1856] (Gaboon snake-eater). Parasite: *Kiricephalus gabonensis*.

SERPENTES: LAMPROPHIIDAE: LAMPROPHIINAE:

Bothrophthalmus lineatus (Peters, 1863) (red-black striped snake). Parasites: *Armillifer armillatus* (adults); *Raillietiella boulengeri*.

Gonionotophis capensis (Smith, 1847) [= *Simocephalus capensis* (Smith, 1847)] (Cape file snake). Parasites: *Porocephalus stilesi* (adults in stomach); *P. subuliferum*.

Gonionotophis poensis (Smith, 1849) [= *Mehelya poensis* (Smith, 1847)] (western forest file snake). Parasites: *Porocephalus subuliferum* (young stages and adults); *Raillietiella boulengeri*.

Gonionotophis savorgnani (Mocquard, 1881) [= *Mehelya lamani* Schmidt, 1923; *Mehelya savorgnani* (Mocquard, 1887)]. Parasites: *Porocephalus subuliferum* (adults); *Raillietiella boulengeri* (larvae).

Lycophidion capense capense (Smith, 1831) [= *Lycophidion capense* (Smith, 1831); *Lycophidion capense capense* (Smith, 1831)] (Cape wolf snake; spotted wolf snake). Parasite: *Raillietiella boulengeri*.

SERPENTES: LAMPROPHIIDAE: PSAMMOPHIINAE:

Malpolon monpessulana (Hermann, 1804) [= *Coelopeltis monspessulana* (Hermann, 1804)] (Montpellier snake). Parasite: *Raillietiella spiralis* (adult in lung).

Mimophis mahfalensis (Grandidier, 1867) (big-eyed snake). Parasite: *Raillietiella belo-haensis* (in lungs).

Psammophis lineatus (Duméril, Bibron & Duméril, 1854) [= *Dromophis lineatus* (Duméril, Bibron & Duméril, 1854)] (lined olympic snake; striped swamp snake). Parasite: *Raillietiella boulengeri* (adults).

Psammophis phillipsi (Hallowell, 1844) [= *Psammophis sibilans phillipsi* (Hallowell, 1844)] (olive grass racer; Phillip's sand snake). Parasites: *Cubirea annulata*; *Raillietiella boulengeri*.

Psammophis sibilans (Linnaeus, 1758) (hissing sand-snake; striped sand snake). Parasites: *Cubirea annulata*; *Porocephalus subuliferum* (larvae); *Raillietiella boulengeri* (larvae and adults); *R. boulengeri spiralis* (adults).

Psammophylax rhombeatus (Linnaeus, 1758) [= *Psammophylax tritaeniatus rhombeatus* (Linnaeus, 1758)] (rhombic skaapstecker; spotted skaapstecker). Parasite: *Raillietiella boulengeri* (adult).

Psammophylax tritaeniatatus tritaeniatatus Günther, 1868 [= *Psammophylax tritaeniatatus* Günther, 1868] (striped skaapstecker). Parasite: *Raillietiella boulengeri*.

Psammophylax variabilis variabilis (Günther, 1893) [= *Psammophylax tritaeniatatus variabilis* (Günther, 1893)] (grey-bellied grass snake; grey-bellied skaapstekker). Parasite: *Raillietiella boulengeri* (adults).

Rhamphiophis Peters, 1854 sp. (a beaked snake). Parasite: *Raillietiella boulengeri*.

SERPENTES: LAMPROPHIIDAE: PSEUDOXYPHIDIINAE:

Leioheterodon madagascariensis (Duméril, Bibron & Duméril, 1854) (Malagasy giant hognose snake). Parasites: *Kiricephalus pattoni* (in lungs); *Raillietiella agcoi* (in lungs).

Leioheterodon modestus (Günther, 1863) (Malagasy giant hognose). Parasites: *Kiricephalus pattoni* (young stages); *Raillietiella chamaeleonis* (male in air sacs).

Liophidium vaillanti (Mocquard, 1901) (bright snake, a Malagasy colubrid). Parasite: *Raillietiella madagascariensis* (in lungs).

Madagascarophis colubrinus colubrinus (Schlegel, 1837) [= *Madagascarophis colubrina* (Schlegel, 1837)] (Malagasy cat-eyed snake). Parasites: *Raillietiella agcoi* (in air sacs); *R. ampanihyensis* (males and females in air sacs).

SERPENTES: VIPERIDAE: CROTALINAE:

Agkistrodon contortrix mokasen Palisot de Beauvois, 1799 (northern copperhead snake). Parasite: *Porocephalus* sp.

Agkistrodon piscivorus (Lacépède, 1789) (cottonmouth snake; eastern cottonmouth; water moccasin). Parasite: *Porocephalus crotali* (adults in lungs).

Bothropoides jararaca (Wied Niewied, 1824) [= *Bothrops jararaca* (Wied Niewied, 1824) ("jararaca")]. Parasites: *Leiperia gracilis*; *Porocephalus clavatus*; *P. crotali* (in abdomen); *Porocephalus* sp.; *P. stilesi* (in lungs); *Sambonia wardi* (adults); *Sebekia oxycephalum* (larvae).

Bothropoides matogrossensis (Amaral, 1925) (pitviper). Parasite: *Raillietiella* sp.

Bothrops Wagler, 1824 sp. Parasites: *Porocephalus* sp.; *P. stilesi*.

Bothrops atrox (Linnaeus, 1758) (barba amarilla; common lancehead; for-de-lance). Parasites: *Kiricephalus* sp.; *Porocephalus stilesi* (in lungs); *Raillietiella furcocercum*; *R. ventili* (in stomach).

Bothrops jararacussu Lacerda, 1884 ("jararacuçu"; "jararacussu"). Parasite: *Porocephalus stilesi* (in lungs).

Bothrops lanceolatus (Bonnaterre, 1790) [= *Lachesis lanceolatus* (Lacépède, 1789)] (rat-tailed serpent; rat-tailed pit-viper). Parasites: *Leiperia gracilis*; *Porocephalus crotali* (in lungs); *P. stilesi* (adult).

Calloselasma rhodostoma (Kuhl, 1824) [= *Agkistrodon rhodostoma* (Boie, 1827); *Ancistrodon rhodostoma* (Boie, 1827)] (Malayan pit viper). Parasite: *Raillietiella orientalis*.

Crotalus Linnaeus, 1758 sp. (a rattlesnake). Parasite: *Porocephalus basiliscus*.

Crotalus atrox Baird & Girard, 1853 [= *Crotalus tortugensis* Van Denburgh & Slevin, 1921] (American rattlesnake; Texas diamond-back; western diamond backed rattlesnake; Tortuga Island diamond rattlesnake). Parasites: *Porocephalus crotali* (adults, development in lungs and tracheae); *P. tortugensis*; *Raillietiella furcocercum*.

Crotalus catalinensis Cliff, 1954 (rattleless rattlesnake; Catalina Island rattlesnake). Parasite: *Porocephalus crotali*.

Crotalus durissus durissus (Linnaeus, 1758) [= *Crotalus adamanteus* Palisot de Beauvois, 1799; *Crotalus durissus* (Linnaeus, 1758)] (Aruba Island rattlesnake; cascavel rattlesnake; eastern diamond-back rattlesnake; South American rattler; South American rattlesnake;

tropical rattlesnake; unicolor; uracoan rattlesnake; vegrandis; "cascavel"). Parasites: *Porocephalus crotali* (in lungs and tracheae); *P. furcocerca* (in stomach); *Sebekia oxycephalum*.

Crotalus durissus terrificus (Laurenti, 1768) [= *Crotalus terrificus* Laurenti, 1768] (dog-faced rattlesnake). Parasites: *Cephalobaena tetrapoda* (in lungs); *Porocephalus crotali* (adults in lung and tracheae); *Raillietiella furcocercum*; *Sambonia wardi*.

Crotalus horridus Linnaeus, 1758 (cane-brake rattlesnake; common rattlesnake; timber rattlesnake; banded rattlesnake). Parasites: *Porocephalus crotali* (adults in abdomen, lungs, and tracheae); *Sebekia oxycephalum* (larvae); *Sambonia wardi*.

Crotalus ruber Cope, 1892 (red diamond rattlesnake; red rattlesnake). Parasite: *Raillietiella crotali*.

Deinagkistrodon acutus (Günther, 1888) [= *Agkistrodon acutus* (Günther, 1888); *Ancistrodon acutus* (Günther, 1888)] (Chinese moccasin; long-nosed pit viper). Parasites: *Armillifer agkistrodantis* (adults in lungs); *Raillietiella orientalis*.

Rhinocerophis alternatus (Duméril, Bibron & Duméril, 1854) [= *Bothrops alternatus* Duméril & Bibron, 1854; *Bothrops alternatus* Duméril & Bibron, 1854; *Lachesis alternatus* (Duméril & Bibron, 1854)] (urutu). Parasite: *Porocephalus stilesi*.

Gloydus brevicaudus brevicaudus (Stejneger, 1907) [= *Agkistrodon blomhoffi* var. *brevicaudus* Stejneger, 1907] (Japanese mamushi). Parasite: *Raillietiella orientalis*.

Lachesis Daudin, 1803 sp. Parasites: *Cephalobaena tetrapoda* (adult); *Porocephalus clavatus* (eggs and embryo); *P. stilesi*; *Raillietiella furcocercum* (in lungs).

Lachesis muta (Linnaeus, 1766) [= *Lachesis mutus* (Linnaeus, 1766)] (South American bushmaster; "surucucu"). Parasites: *Porocephalus crotali*; *P. stilesi* (adults in lungs).

Ovophis okinavensis (Boulenger, 1892) [= *Trimeresurus okinavensis* Boulenger, 1892] (himehabu; Okinawa pitviper; Ryukuy Island pit viper). Parasite: *Raillietiella orientalis*.

Protobothrops flavoviridis (Hallowell, 1861) [= *Trimeresurus flavoviridis flavoviridis* (Hallowell, 1861); *Trimeresurus flavoviridis* (Hallowell, 1861)] (habu). Parasite: *Raillietiella orientalis*.

Protobothrops mucrosquamatus (Cantor, 1839) [= *Trimeresurus mucrosquamatus* (Cantor, 1839) (brown-spotted pitviper; pointed-scaled pitviper). Parasite: *Raillietiella orientalis*.

Rhinocerophis alternatus (Duméril, Bibron & Duméril, 1854) [= *Bothrops alternatus* Duméril, Bibron & Duméril, 1854; *Lachesis alternatus* (Duméril, Bibron & Duméril, 1854)] (crossed viper; "urutu"). Parasites: *Bothropseiella bicornuta* (in lung); *Cephalobaena tetrapoda* (adults in lungs); *Porocephalus stilesi* (in lungs); *Raillietiella* sp.

Trimeresurus gramineus (Shaw, 1802) (common bamboo pitviper). Parasite: *Raillietiella orientalis*.

Trimeresurus purpureomaculatus bicolor Boulenger, 1890 (mangrove viper; Schultze's pitviper; shore pit viper). Parasite: *Kiricephalus pattoni* (immature forms in body cavity).

SERPENTES: VIPERIDAE: VIPERINAE:

Atheris chlorechis (Pel, 1851) [= *Atheris chloroechis* (Pel, 1851)] (west Africa tree viper; west African leaf viper; western bush viper). Parasite: *Raillietiella boulengeri*.

Bitis arietans (Merrem, 1820) (common puff adder). Parasite: *Raillietiella boulengeri*.

Bitis gabonica (Duméril, Bibron & Duméril, 1854) (African viper; Gaboon puff-adder). Parasites: *Armillifer armillatus* (adults in lungs); *A. grandis* (adults); *Cubireia annulata* (adults); *Kiricephalus coarctatus*; *Linguatula serrata* (causing pentastomiasis); *Porocephalus stilesi* (adults); *P. subuliferum* (young stages in abdominal muscles); *Raillietiella boulengeri* (adults in in peritoneal cavity).

Bitis rhinoceros (Schlegel, 1855) [= *Bitis gabonica rhinoceros* (Schlegel, 1855)] (west Africa Gaboon viper). Parasite: *Armillifer armillatus* (adult infestation).

Bitis nasicornis (Shaw, 1802) (horned puff adder; rhinoceros adder; rhinoceros viper). Parasites: *Armillifer armillatus* (adults in lungs); *A. grandis* (adults in lungs); *Cubirea annulata* (adults); *Porocephalus subuliferum*; *Raillietiella boulengeri* (adults).

Causus rhombeatus (Lichtenstein, 1823) [= *Bitis rhombeatus* Lichtenstein, 1823] (Cape night adder; Cape viper; common night-adler; rhombic night-adler; demon night adder). Parasites: *Armillifer armillatus*; *Porocephalus clavatus*; *P. subuliferum* (young stages); *Raillietiella boulengeri* (adults and larvae).

Cerastes cerastes (Linnaeus, 1758) [= *Cerastes cornutus* Boulenger, 1896] (African horned desert viper; desert horned viper). Parasites: *Armillifer armillatus* (adult); *A. grandis*; *Kiricephalus coarctatus*.

Daboia russelii (Shaw & Nodder, 1797) [= *Vipera russelii* (Shaw & Nodder, 1797)] (Indian Russell's viper; chain viper; Russell's viper). Parasite: *Raillietiella orientalis*.

Daboia siamensis (M.A. Smith, 1917) [= *Vipera russelii formosensis* Klemer, 1963] (eastern Russell's viper; Siamese Russell's viper). Parasite: *Raillietiella orientalis*.

Echis carinatus carinatus (Schneider, 1801) [= *Echis carinatus* (Schneider, 1801)] (Indian saw-scaled viper; little Indian viper). Parasite: *Raillietiella orientalis*.

Vipera berus (Linnaeus, 1758) [= *Vipera serus* (Linnaeus, 1758) (erroneous spelling)] (common European adder; northern viper). Parasite: *Porocephalus clavatus* (larvae).

Vipera palaestinae Werner, 1938 (Palestine viper). Parasite: *Raillietiella* sp.

SQUAMATA: AMPHISBAENIA: AMPHISBAENIDAE:

Amphisbaena Linnaeus, 1758 sp. (a worm lizard). Parasite: *Raillietiella gigliolii* (in lungs).

Amphisbaena alba Linnaeus, 1758 [= *Amphisbaena flavescens* Houttuyn, 1787] (giant amphisbaena; red worm lizard; white amphisbaena; "cobra-de-duas-cabeças"). Parasites: Pentastomida sp. (life cycle, including a beetle inquiline); *Raillietiella furcocercum*; *R. gigliolii* (adults in lungs).

Amphisbaena vermicularis Wagler, 1924 (Wagler's worm lizard). Parasite: *Raillietiella gigliolii* (in lungs).

Monopeltis schoutedeni Witte, 1933 (middle Congo worm lizard). Parasite: *Raillietiella schoutedeni* (adults in lung).

AVES: (Species were validated, in addition to the general sources indicated above, with AviBase, 2013, American Ornithologists Union, 2013, IUCN - The International Union for Conservation of Nature, 2013, and Birdlife International, 2013).

CHARADRIIFORMES: ALCIDAE:

Uria aalge (Pontoppidan, 1763) ("arau-comum"; common guillemot; common murre; thin-billed murre). Parasites: *Reighardia lomviae*; *R. sterna* (infection of juvenile and adult hosts).

CHARADRIIFORMES: LARIDAE:

Chroicocephalus philadelphia (Ord, 1815) [= *Larus philadelphia* Ord, 1815] (Bonaparte's gull; Dominican gull; "gaivota de Bonaparte"). Parasite: *Reighardia sterna*.

Larus argentatus Pontoppidan, 1763 (silver sea-gull; European herring gull; "gaivota-argêntea"). Parasite: *Reighardia sterna* (in air sacs; larva causing autoinfection).

Larus canus Linnaeus, 1758 [= *Larus glaucus* Bruch, 1853] (burgemaster; glaucous gull; mew gull; common gull; "gaivota-parda"). Parasite: *Reighardia sterna* (in air sacs).

Larus dominicanus Lichtenstein, 1823 (Dominican gull; kelp gull; "gaivota"). Parasite: *Reighardia sterna*.

Larus hyperboreus Gunnerus, 1767 ("gaivota-hiperbórea"; glaucous gull). Parasite: *Reighardia sterna*.

Larus marinus Linnaeus, 1758 ("Alcatraz-comum"; great black-headed gull). Parasite: *Reighardia sterna* (in air sacs).

Larus schistisagus Stejneger, 1884 (slaty-backed gull). Parasite: *Reighardia sterna*.

Pagophila eburnea Phipps, 1774 ("gaivota-marfim"; ivory gull). Parasite: *Reighardia sterna*.

Sterna hirundo Linnaeus, 1758 [= *Sterna fluviatilis* Naumann, 1819] (a marine tern: common tern; "andorinha-do-mar-comum"). Parasite: *Reighardia sterna* (nymphs in lungs, air sacs, and hepatic portal blood).

Sterna paradisaea Pontoppidan, 1763 [= *Sterna macrura* Naumann, 1819] ("andorinha-do-mar-ártica"; silver tern). Parasite: *Reighardia sterna*.

CICONIIFORMES: ARDEIDAE:

Ardea cocoi (Linnaeus, 1766) (blue heron; cocoi heron). Parasite: *Leiperia gracilis* (larva).

FALCONIFORMES: ACCIPITRIDAE:

Aegypius monachus (Linnaeus, 1766) (black vulture). Parasite: *Hispania vulturis* (in abdominal sacs).

Gyps bengalensis (Gmelin, 1788) (Indian white-backed vulture; white-rumped vulture). Parasite: *Raillietiella tracheae* (in tracheae).

Pernis ptilorhynchus (Linnaeus, 1758) ("bútio-vespeiro"; honey buzzard). Parasite: *Armillifer armillatus* (larva).

GRUIFORMES: GRUIDAE:

Grus virgo (Linnaeus, 1758) [= *Anthropoides virgo* Linnaeus, 1758] (demoiselle crane, a gruid bird; "grou-pequeno"). Parasites: *Cubirea annulata* (larva); *C. pomeroyi*.

GRUIFORMES: RALLIDAE:

Porphyrio Brisson, 1760 sp. (a water hen, or gallinule). Parasites: *Armillifer grandis* (larvae); *Cubirea annulata* (nymphs).

STRIGIFORMES: STRIGIDAE:

Bubo africanus (Temminck, 1821) (spotted eagle-owl; "bufo africano"). Parasite: *Armillifer armillatus* (larvae).

MAMMALIA; (Species were further validated, in addition to the general sources indicated above, with Wilson & Reeder, 2005).

AFROSORICIDA: TENRECOMORPHA: TENRECIDAE: ORYZORICTINAE:

Oryzoryctes hova A. Grandidier, 1870 [= *Oryzoryctes talpoides* G. Grandidier & Petit, 1930] (mole-like rice tenrec). Parasite: *Gigliolella brumpti* (larvae).

AFROSORICIDA: TENRECOMORPHA: TENRECIDAE: TENRECINAE:

Hemicentetes semispinosus G. Cuvier, 1798 (lowland streaked tenrec). Parasite: *Gigliolella brumpti* (larvae).

Setifer setosus (Schreiber, 1778) [= *Ericulus setosus* (Schreiber, 1778)] (greater hedgehog tenrec). Parasite: *Gigliolella brumpti* (nymph encysted in liver and lungs).

Tenrec ecaudatus (Schreber, 1778) (tail-less tenrec). Parasite: *Gigliolella brumpti* (encysted larvae).

ARTIODACTYLA: ANTILOCARPIDAE:

Antilocapra americana americana (Ord, 1815) [= *Antilocapra americana* (Ord, 1815);

Capra americana Ord, 1815] (American antelope; pronghorn antelope; Rocky Mountain goat). Parasite: *Linguatula serrata*.

ARTIODACTYLA: BOVIDAE: ALCEPAPHINAE:

Alcelaphus buselaphus buselaphus (Pallas, 1766) [= *Bubalus buselaphus* (Pallas, 1766)] (hartebeest). Parasites: *Linguatula serrata* (young form); *Neolinguatula nuttali* (larva).

Alcelaphus buselaphus cokii Günther, 1880 (bubla antelope; Coke's hartebeest; grassland antelope). Parasites: *Linguatula multiannulata*; *L. serrata* (nymphs).

Connochaetes taurinus taurinus (Burchell, 1824) [= *Connochaetes taurinus* (Burchell, 1824)] (blue wildebeest; bridled gnu). Parasites: *Linguatula serrata*; *Neolinguatula nuttalli*.

Damaliscus korrigum korrigum (Ogilby, 1836) (korrigan; tiang; topi). Parasite: *Linguatula serrata*.

ARTIODACTYLA: BOVIDAE: ANTILOPINAE:

Gazella subgutturosa subgutturosa (Guldenstaedt, 1778) [= *Gazella yarkandensis* Blanford, 1875] (goitered gazelle). Parasite: *Linguatula serrata* (larva).

Neotragus pygmaeus (Linnaeus, 1758) (royal antelope). Parasite: *Armillifer armillatus*.

Procapra gutturosa (Pallas, 1777) [= *Gazella gutturosa* Pallas, 1777] (Mongolian gazelle). Parasite: *Linguatula serrata* (larvae).

ARTIODACTYLA: BOVIDAE: BOVINAE:

Boselaphus tragocamelus (Pallas, 1766) (blue antelope; nilgai). Parasite: *Linguatula serrata* (larvae).

Bos taurus taurus Linnaeus, 1758 [= *Bos taurus* Linnaeus, 1758] (aurochs; bull; cow; domestic ox). Parasites: *Armillifer armillatus* (larvae causing porocephalosis); *Linguatula serrata* (larvae and adults in hepatic lymph glands and liver).

Bubalus bubalis bubalis (Linnaeus, 1758) [= *Antelope bubalis* Pallas, 1767; *Bubalus buf-falus* (Linnaeus, 1758)] (bubale; river buffalo; water buffalo). Parasites: *Armillifer armillatus* (larvae); *Linguatula serrata* (nymphs); *Neolinguatula nuttalli* (in lungs and intestine, some encysted beneath pleura).

Syncerus caffer caffer (Sparrman, 1779) (African buffalo; caffer mongoose; Cape gray mongoose). Parasites: *Armillifer armillatus* (larvae); *Linguatula multiannulata*; *L. serrata*.

Tragelaphus scriptus scriptus (Pallas, 1766) [= *Tragelaphus scriptus* (Pallas, 1766)] (bushbuck; harnessed antelope; kiewell). Parasites: *Armillifer armillatus* (young forms); *Linguatula recurvata* (larvae); *Porocephalus* sp. (larvae).

Tragelaphus strepsiceros strepsiceros (Pallas, 1766) [= *Tragelaphus strepsiceros* (Pallas, 1766)] (greater kudu). Parasite: *Neolinguatula nuttalli*.

ARTIODACTYLA: BOVIDAE: CAPRINAE:

Capra hircus hircus (Linnaeus, 1758) [= *Capra hircus* (Linnaeus, 1758)] (Alpine cross goat; domestic goat; wild goat). Parasite: *Linguatula serrata* (larvae and adults in abdominal cavity, causing visceral linguatulosis).

Ovis aries aries Linnaeus, 1758 [= *Ovis aries* Linnaeus, 1758] (domestic sheep; red sheep). Parasite: *Linguatula serrata* (nymphs and adult in abdomen and lymph nodes).

ARTIODACTYLA: BOVIDAE: CEPHALOPHINAE:

Cephalophus leucogaster leucogaster Gray, 1873 [= *Cephalophus leucogaster* Gray, 1873] (white-bellied dukker). Parasite: *Armillifer armillatus* (larvae in viscera).

Cephalophus weynsi weynsi Thomas, 1901 [= *Cephalophus weynsi* Thomas, 1901] (Weyn's duiker). Parasite: *Armillifer armillatus*.

Philantomba monticola monticola (Thunberg, 1789) [= *Cephalophus caeruleus* H. Smith, 1827; *Cephalophus monticola* Thunberg, 1789; *Cephalophus pygmaeus*] (Cape guevi; South African blue duiker). Parasites: *Linguatula serrata* (nymphs); *Neolinguatula nuttalli* (juveniles in abdominal cavity).

ARTIODACTYLA: BOVIDAE: HIPOTRAGINAE:

Hippotragus equinus equinus É. Geoffroy Saint-Hilaire, 1803 [= *Hippotragus equinus* É. Geoffroy Saint-Hilaire, 1803] (roan antelope). Parasite: *Armillifer armillatus* (larvae in liver).

Oryx beisa beisa (Rüppel, 1835) (oryx) [= *Oryx beisa* (Rüppel, 1835)]. Parasite: *Linguatula serrata*.

ARTIODACTYLA: BOVIDAE: REDUNCINAE:

Redunca arundinum (Boddaert, 1785) [= *Cervicapra arundinum* Boddaert, 1785; *Eleotragus arundinum* (Boddaert, 1785)] (South African reedbuck; southern reedbuck). Parasite: *Armillifer armillatus* (nymphs).

ARTIODACTYLA: CAMELIDAE:

Camelus bactrianus bactrianus Linnaeus, 1758 [= *Camelus bactrianus* Linnaeus, 1758] (bactrian camel; two-humped camel). Parasite: *Linguatula serrata* (nymphs forming red nodule in lung).

Camelus dromedarius Linnaeus, 1758 (Arabian camel; dromedary; one-humped camel). Parasite: *Linguatula serrata* (nymphs in intestine and mesenteric lymph nodes).

ARTIODACTYLA: CERVIDAE: CAPREOLINAE:

Capreolus capreolus capreolus (Linnaeus, 1758) [= *Capreolus capreolus* (Linnaeus, 1758)] (European roe deer; roebuck). Parasite: *Linguatula serrata* (nymphs).

Rangifer tarandus tarandus (Linnaeus, 1758) [= *Rangifer tarandus* (Linnaeus, 1758)] (caribou; mountain reindeer; wild reindeer). Parasites: *Linguatula arctica* (in nasal passages; sinus gland); *L. serrata*.

ARTIODACTYLA: CERVIDAE: CERVINAE:

Dama dama dama (Linnaeus, 1758) [= *Dama dama* (Linnaeus, 1758)] (European fallow-deer). Parasite: *Linguatula serrata* (nymphs).

ARTIODACTYLA: SUIDAE: SUINAE: PHACOCHOERINI:

Phacochoerus F. Cuvier, 1826 sp. Parasite: *Armillifer armillatus* (larvae).

Phacochoerus africanus africanus (Gmelin, 1788) [= *Phacochoerus africanus* (Gmelin, 1788)] (common whart-hog). Parasite: *Armillifer armillatus* (young stages).

Phacochoerus aethiopicus aethiopicus (Pallas, 1766) [= *Phacochoerus aethiopicus* (Pallas, 1766)] (desert wharthog). Parasites: *Armillifer armillatus* (larva); *Neolinguatula nuttalli*.

ARTIODACTYLA: SUIDAE: SUINAE: POTAMOCHOERINI:

Potamochoerus porcus Linnaeus, 1758 [= *Potamochoerus penicillatus* (Schinz, 1848)] (red river hog, a bush pig). Parasite: *Armillifer armillatus* (larvae in viscera and mesenterium).

ARTIODACTYLA: SUIDAE: SUINAE: SUINI:

Sus scrofa scrofa Linnaeus, 1758 [= *Sus domesticus* Erxleben, 1777; *Sus scrofa domesticus* Erxleben, 1777] (domestic pig; wild boar; "javalı"). Parasites: *Armillifer armillatus* (larvae); *A. moniliformis moniliformis* (nymphs); *Linguatula serrata* (nymphs in liver, causing porocephalosis).

ARTIODACTYLA: TAYASSUIDAE:

Pecari tajacu tajacu (Linnaeus, 1758) [= *Dicotyles tajacu* (Linnaeus, 1758); *Pecari tajacu*

(Linnaeus, 1758)] (collared peccary; "queixada"). Parasites: *Linguatula recurvata* (juvenile); *L. serrata* (nymphs).

Tayassu pecari pecari (Link, 1795) [= *Dicotyles labiatus* Cuvier, 1817; *Tayassu pecari* (Link, 1795)] (white-lipped peccary; "porco-do-mato"). Parasite: *Linguatula recurvata* (larvae in heart).

ARTIODACTYLA: TRAUQUILIDAE:

Hyemoschus aquaticus (Ogilby, 1841) (water chevrotain; fanged deer). Parasite: *Armillifer armillatus* (larvae in intestine).

Tragulus javanicus (Osbeck, 1765) (Java mouse deer; lesser mouse deer). Parasite: *Armillifer moniliformis moniliformis* (larvae in stomach).

CARNIVORA: CANIFORMIA: CANIDAE:

Canis Linnaeus, 1758 sp. (a dog). Parasites: *Linguatula serrata*; *Porocephalus crotali* (nymphs causing massive visceral pentastomiasis).

Canis adustus adustus Sundevall, 1847 [= *Canis adustus* Sundevall, 1847] (side-striped jackal; silver chacal). Parasite: *Linguatula serrata serengetiana*.

Canis lupus dingo Meyer, 1793 [= *Canis dingo* Meyer, 1793] (dingo; domestic dog; wild dog). Parasite: *Linguatula serrata* (adults in nasal sinus).

Canis lupus familiaris Linnaeus, 1758 [= *Canis domesticus* Linnaeus, 1758; *Canis familiaris* Linnaeus, 1758; *Canis familiaris dingo* Linnaeus, 1758; *Canis (Canis) familiaris* Linnaeus, 1758] (bull terrier bitch; dog; domestic dog; European dog; hunting dog; mongrel dog; schnauzer dog; stray dog; street dog; urban pound dogs). Parasites: *Armillifer armillatus* (nymphs); *A. moniliformis moniliformis* (nymphs); *Linguatula serrata* (larva; adults in nasal cavity and ear); *L. serrata serengetiana*.

Canis lupus lupus Linnaeus, 1758 [= *Canis lupus* Linnaeus, 1758] (wolf). Parasite: *Linguatula serrata* (adult in pharynx).

Canis mesomelas mesomelas (Schreber, 1778) [= *Canis mesomelas* (Schreber, 1778)] (black-backed jackal; silver-backed jackal). Parasite: *Linguatula serrata serengetiana*.

Canis mesomelas schmidtii Noack, 1897 [= *Thos mesomelas elongae* Heller, 1914] (black-backed jackal; wild dog). Parasite: *Linguatula serrata serengetiana*.

Chrysocyon brachyurus (Illiger, 1815) [= *Canis jubatus* Desmarest, 1820] (maned wolf). Parasite: *Linguatula serrata*.

Lycaon pictus lupinus Thomas, 1902 (African wild dog). Parasite: *Linguatula serrata serengetiana*.

Lycalopex culpaeus culpaeus (Molina, 1782) [= *Dusicyon culpaeus* (Molina, 1782)] (culpeo fox; South American red fox). Parasite: *Linguatula serrata* (nymphs).

Vulpes vulpes vulpes (Linnaeus, 1758) [= *Canis vulpes* Linnaeus, 1758; *Vulpes vulpes* (Linnaeus, 1758)] (common fox; red fox). Parasite: *Linguatula serrata* (larvae and adults in intestine).

CARNIVORA: CANIFORMIA: MEPHITIDAE:

Mephitis mephitis mephitis (Schreber, 1776) [= *Mephitis mephitis* (Schreber, 1776)] (striped skunk). Parasite: *Sebekia proboscideum* (larva).

CARNIVORA: CANIFORMIA: MUSTELIDAE: LUTRINAE:

Aonyx cinerea cinerea (Illiger, 1815) [= *Aonyx leptonyx* (Horsfield, 1823)] (Oriental small-clawed otter). Parasite: *Armillatus moniliformis moniliformis* (larvae).

Hydrictis maculicollis (Lichtenstein, 1823) [= *Lutra maculipennis* Lichtenstein, 1823 (erroneous spelling)] ("lontra"; spotted-necked otter). Parasite: *Armillifer armillatus* (larvae).

Lutra lutra lutra (Linnaeus, 1758) *nair* F.G. Cuvier, 1823 [= *Lutra nair* F.G. Cuvier, 1823] (Indian otter). Parasites: *Armillifer armillatus* (nymphs); *A. moniliformis moniliformis* (nymphs in peritonela cavity).

Lutrogale perspicillata perspicillata (I. Geoffroy Saint-Hilaire, 1826) [= *Lutra perspicillata* Geoffroy, 1826] (smooth-coated otter). Parasite: *Armillifer moniliformis moniliformis*.

Pteronura brasiliensis brasiliensis (Gmelin, 1788) [= *Lutra brasiliensis* Gmelin, 1788; *Pteronura brasiliensis* (Gmelin, 1788)] (giant otter; "ariranha"). Parasites: *Porocephalus* sp. (larvae); *P. crotali* (larvae); *Sebekia oxycephalum* (larvae).

CARNIVORA: CANIFORMIA: MUSTELIDAE: MUSTELINAE:

Mellivora capensis cottoni Lydekker, 1906 [= *Mellivora sagulata* Hollister, 1910] (honey badger). Parasite: *Armillifer armillatus* (larvae in stomach).

CARNIVORA: CANIFORMIA: PROCYONIDAE:

Nasua narica narica (Linnaeus, 1766) [= *Nasua narica* (Linnaeus, 1766)] (white-nosed coati; "quati"). Parasites: *Porocephalus crotali*; *Sebekia oxycephalum*.

Procyon cancrivorus cancrivorus (G. Cuvier, 1798) [= *Procyon cancrivorus* (G. Cuvier, 1798)] (a mammal: crab-eating racoon; "guaxinim"; "mão pelada"). Parasites: *Linguatula serrata*; *Porocephalus crotali* (larvae in diaphragm); *Sebekia oxycephalum*.

Procyon lotor lotor (Linnaeus, 1758) [= *Procyon lotor* (Linnaeus, 1758)] (raccoon). Parasite: *Porocephalus crotali*.

CARNIVORA: FELIFORMIA: EUPLERIDAE: GALIDIINAE:

Galidictis fasciata fasciata (Gmelin, 1788) [= *Ariela fasciata* Gmelin, 1788] (banded mongoose; broad-striped Malagasy mongoose). Parasite: *Armillifer armillatus* (larvae).

CARNIVORA: FELIFORMIA: FELIDAE: FELINAE:

Acinonyx jubatus jubatus (Schreber, 1775) [= *Acinonyx guttatus* (Hermann, 1804); *Cynailurus guttatus* Hermann, 1804] (cheetah; guepardo). Parasite: *Armillifer armillatus* (larvae).

Felis catus Linnaeus, 1758 [= *Felis domesticus* Erxleben, 1777; *Felis siamensis* Trouessart, 1904] (domestic cat). Parasites: *Armillifer armillatus* (nymphal pentastomiasis); *A. moniliformis moniliformis* (nymphs); *Kiricephalus pattoni* (immature forms in liver; nymph in lungs); *Linguatula serrata* (nymphs in liver); *Porocephalus siamensis* (larvae).

Felis silvestris Schreber, 1777 (wildcat). Parasites: *Armillifer armillatus* (larva); *Linguatula serrata* (larva).

Leptailurus serval serval Schreber, 1776 [= *Felis serval* (Schreber, 1776)] (chat serval; serval; walking maru). Parasite: *Armillifer armillatus* (young specimens).

Prionailurus planiceps (Vigors & Horsfield, 1827) [= *Felis planiceps* (Vigors & Horsfield, 1827)] (flat-headed cat). Parasite: *Armillifer moniliformis moniliformis* (larvae).

Prionailurus viverrinus (Bennett, 1833) [= *Felis viverrina* Bennett, 1833] (fishing cat). Parasite: *Armillifer moniliformis moniliformis* (larvae).

CARNIVORA: FELIFORMIA: FELIDAE: PANTHERINAE:

Panthera leo leo (Linnaeus, 1758) [= *Felis leo* Linnaeus, 1758] (lion). Parasites: *Armillifer armillatus* (young stages); *Linguatula serrata* (in pharynx); *Neolinguatula nuttalli* (adults); *Porocephalus crotali* (in body cavity).

Panthera onca onca (Linnaeus, 1758) [= *Felis onca* Linnaeus, 1758] (jaguar; "onça-pintada"). Parasite: *Linguatula recurvata* (adults in frontal sinuses and tracheae).

Panthera pardus pardus (Linnaeus, 1758) [= *Felis pardus* Linnaeus, 1758; *Panthera pardus* (Linnaeus, 1758)] (leopard). Parasites: *Armillifer armillatus* (nymphs); *A. moniliformis*

(nymphs); *Neolinguatula nuttalli*; *Porocephalus crotali* (in lungs, body cavity, and spleen).

Panthera tigris tigris (Linnaeus, 1758) [= *Felis tigris* Linnaeus, 1758] (tiger). Parasites: *Armillifer armillatus* (nymphs); *A. moniliformis* (juveniles).

CARNIVORA: FELIFORMIA: HERPESTIDAE:

Atilax paludinosus paludinosus (G. Cuvier, 1829) [= *Atilax paludinosus* (G. Cuvier, 1829); *Mungos paludinosus* G. Cuvier, 1829] (marsh mongoose; water mongoose). Parasite: *Armillifer armillatus* (larvae).

Bdeogale crassicaudata puisa Peters, 1852 [= *Bdeogale puisa* Peters, 1852] (puisa; bushy-tailed mongoose). Parasite: *Armillifer armillatus* (young forms).

Crossarchus obscurus F.G. Cuvier, 1825 (common cusimanse; long-nosed cusimanse). Parasite: *Armillifer armillatus* (larvae).

Dologale dybowskii (Pousargues, 1893) (Pousargues' mongoose). Parasite: *Armillifer armillatus* (nymphs in abdominal cavity).

Herpestes Illiger, 1811 sp. (creeping thief). Parasite: *Armillifer armillatus* (larvae in intestine).

Herpestes ichneumon ichneumon (Linnaeus, 1758) *cafra* (Gmelin, 1788) [= *Herpestes cafer* Gmelin, 1788; *Mungos cafer* (Gmelin, 1788)] (Egyptian mongoose). Parasite: *Armillifer armillatus* (larvae).

Herpestes javanicus javanicus (É. Geoffroy Saint-Hilaire, 1818) [= *Mungos javanicus* É. Geoffroy Saint-Hilaire, 1818; *Mungos galera*] (mungo; small Asian mongoose). Parasites: *Armillifer armillatus* (larvae in liver, mesentery, and lung); *Armillifer moniliformis moniliformis* (young stage).

Herpestes naso De Winton, 1901 [= *Herpestes urva naso* De Winton, 1901] (crab-eating mongoose; long-nosed mongoose). Parasite: *Armillifer armillatus* (larvae in liver, mesentery, spleen, and free in body).

Ichneumia albicauda albicauda G. Cuvier, 1829 [= *Herpestes albicaudus* (G. Cuvier, 1829); *Ichneumia albicauda* G. Cuvier, 1829] (white-tailed mongoose). Parasite: *Armillifer armillatus* (young stages).

Mungos É. Geoffroy Saint Hilaire & Cuvier, 1795 sp. Parasite: *Armillifer armillatus* (larvae).

Mungos mungo mungo (Gmelin, 1788) [= *Crossarchus fasciatus* Desmarest, 1820] (African banded mongoose; banded ichneumon; broad-banded cusimanse). Parasite: *Armillifer armillatus* (larvae in mesenteries).

CARNIVORA: FELIFORMIA: HYAENIDAE:

Crocuta crocuta (Erxleben, 1777) [= *Crocuta crocuta crocuta* (Erxleben, 1777)] (spotted hyena). Parasite: *Linguatula multiannulata*.

Hyaena brunnea Thunberg, 1820 (brown hyena). Parasite: *Armillifer armillatus* (nymph).

Proteles cristata (Sparrmann, 1783) [= *Protelis cristatus* (Sparrmann, 1783)] (aardwolf). Parasites: *Armillifer armillatus* (larvae in in mesentery); *A. moniliformis moniliformis* (larvae).

CARNIVORA: FELIFORMIA: NANDINIIDAE:

Nandinia binotata binotata Gray, 1830 [= *Nandinia binotata* Gray, 1830] (African palm civet). Parasite: *Armillifer armillatus* (larvae in coelomic cavity).

CARNIVORA: FELIFORMIA: VIVERRIDAE: PARADOXURINAE:

Arctictis binturong binturong (Raffles, 1821) [= *Arctictis binturong* (Raffles, 1821)]

(Asian bear cat; binturong). Parasite: *Armillifer moniliformis moniliformis* (nymphs).

Paradoxurus hermaphrodites hermaphrodites Pallas, 1777 [= *Paradoxurus hermaphrodites* Pallas, 1777] (Asian palm civet). Parasite: *Armillifer armillatus*.

Paradoxurus hermaphrodites philippinensis Jourdan, 1837 [= *Paradoxurus philippinensis* Jourdan, 1837 (erroneous spelling); *Paradoxurus philippinensis* Jourdan, 1837] (Asian palm civet; native cat; palm civet cat). Parasites: *Armillifer moliliformis heymonsi* (in lungs); *A. moniliformis moniliformis* (young forms).

CARNIFORA: FELIFORMIA: VIVERRIDAE: VIVERRINAE:

Genetta G. Cuvier, 1816 sp. Parasite: *Armillifer armillatus* (larvae).

Genetta genetta genetta (Linnaeus, 1758) [= *Genetta senegalensis* J.B. Fischer, 1829]] (common genet). Parasite: *Armillifer armillatus* (larva).

Genetta pardina I. Geoffroy Saint-Hilaire, 1832 (pardine genet). Parasite: *Armillifer armillatus* (larvae).

Viverra civettina (Blyth, 1862) [= *Civettictis civetta* [sic] Schreber, 1776] (African civet cat; Malabar large-spotted cat). Parasite: *Armillifer armillatus* (larvae inside and outside of gut).

Viverra zibetha zibetha Linnaeus, 1758 [= *Viverra zibetha* Linnaeus, 1758] (common Indian civet). Parasite: *Armillatus moniliformis moniliformis* (larvae).

"*Viverricula malaccensis* Gmelin, 1788" (Indian civet; small civet cat). Parasite: *Armillifer moniliformis moniliformis* (nymphs). Remarks: The vernacular name small Indian civet keys down to *Viverricula indica* (É. Geoffroy Saint-Hilaire, 1803), but the species "*Viverricola malaccensis*" Gmelin, 1788 does not appear in the synonymy of this species (Wilson & Reed, 2005).

CARNIVORA: URSIDAE:

Melursus ursinus ursinus (Shaw, 1971) [= *Melursus ursinus* (Shaw, 1971)] (sloth bear). Parasite: *Armillifer moniliformis moniliformis* (adult; nymph in liver).

CETACEA: ODONTOCETI: PHACOENIDAE:

Phacoena phacoena phacoena (Linnaeus, 1758) [= *Phacoena phacoena* (Linnaeus, 1758)] (North Atlantic harbour porpoise). Parasite: *Reighardia sterna*.

CHIROPTERA: HIPPOSIDERIDAE:

Hipposideros cyclops Temminck, 1853 (cyclops leaf-nosed bat; roundleaf bat). Parasite: *Armillifer armillatus* (larvae).

CHIROPTERA: PHYLLOSTOMIDAE: PHYLLOSTOMINAE:

Phyllostomus discolor discolor Wagner, 1843 [= *Phyllostoma discolor* (Wagner, 1843)] (pale spear-nosed bat; particoloured javelin-bat). Parasite: *Porocephalus crotali* (larvae in stomach).

CHIROPTERA: PTEROPODIDAE:

Eidolon helvum helvum (Kerr, 1792) [= *Eidolon helvum* (Kerr, 1792); *Eidolus helvum* (Kerr, 1792) (erroneous spelling)] (a frugivorous bat). Parasite: *Linguatula* sp.

CINGULATA: DASYPODIDAE: DASYPODINAE:

Dasypus novemcinctus novemcinctus (Linnaeus, 1758) [= *Dasypus niger* Lichtenstein, 1818; *Dasypus novemcinctus* (Linnaeus, 1758); *Tatusia novemcincta* Linnaeus, 1758] (nine-banded armadillo; peba-armadillo; "tatu-galinha"; "tatu-peba"). Parasite: *Porocephalus crotali* (larvae in abdomen and liver).

CINGULATA: DASYPODIDAE: EUPHRACTINAE:

Chaetophractus vellerosus vellerosus (Gray, 1865) [= *Chaetophractus vellerosus* (Gray,

1865)] (little hairy armadillo; screaming hairy armadillo). Parasite: *Porocephalus crotali* (nymphs).

CINGULATA: DASYPODIDAE: TOLYPEUTINAE:

Tolypeutes matacus (Desmarest, 1804) [= *Tolypeutes mataco* (Desmarest, 1804) (erroneous spelling)] (southern three-banded armadillo; "tatu-bola"). Parasite: *Porocephalus crotali* (nymphs).

DASYUROMORPHA: DASYURIDAE: DASYURINAE:

Dasykaluta rosamondae (Ride, 1964) (little red kaluta). Parasite: *Waddycephalus* sp. (nymphs encysted in abdomen).

Dasyurus É Geoffroy, 1796 sp. (a native cat). Parasite: *Armillifer mazzai*.

Dasyurus hallucatus Gould, 1842 [= *Satanellus hallucatus* (Gould, 1842)] (northern quoll). Parasites: *Armillifer arborealis* (adults and nymphs in liver, lung, and small intestine); Pentastomida sp. (larvae). *Waddycephalus* sp. (male from mesentery).

DASYUROMORPHA: DASYURIDAE: DASYURINAE: DASYURINI:

Parantechinus apicalis (Gray, 1842) (southern dibbler). Parasite: *Waddycephalus* sp. (nymphs).

DIDELPHIMORPHA: DIDELPHIDAE: CALUROMYINAE:

Caluromys (*Caluromys*) *philander philander* (Linnaeus, 1758) [= *Caluromys philander* (Linnaeus, 1758); *Didelphis philander* Linnaeus, 1758; *Philander philander* (Linnaeus, 1758)] (bare-tailed woolly opossum; philander opossum; "macura"). Parasites: *Porocephalus clavatus* (larva); *P. crotali* (larvae in intestine, liver, and abdominal cavity).

DIDELPHIMORPHA: DIDELPHIDAE: DIDELPHINAE:

Chironectes minimus minimus (Zimmermann, 1780) [= *Chironectes minimus* (Zimmermann, 1780)] (water opossum; "cuica-d'agua"). Parasite: *Porocephalus crotali* (larvae).

Delphinidae Gray, 1821 sp. (a dolphin). Parasite: *Linguatula serrata*.

Didelphis Linnaeus, 1758 sp. ("gambá", a marmoset or opossum). Parasite: *Porocephalus clavatus* (larvae).

Didelphis marsupialis marsupialis Linnaeus, 1758 [= *Didelphis marsupialis* Linnaeus, 1758] (common opossum). Parasites: *Linguatula serrata* (nymphs); *Porocephalus crotali* (larvae).

Didelphis virginiana virginiana Kerr, 1792 [= *Didelphis virginiana* Kerr, 1792] (Virginian opossum). Parasites: *Porocephalus clavatus* (nymphs); *P. crotali* (nymphs).

Marmosa murina (Linnaeus, 1758) [= *Didelphis murina* Linnaeus, 1758; *Marmosa murina parata* Thomas, 1911] (common mouse opossum; Linnaeus' mouse opossum; marmosa; murine opossum). Parasites: *Porocephalus clavatus*; *P. crotali* (larvae in body cavity).

Micoureus paraguayanus travassosi Miranda-Ribeiro, 1936 [= *Marmosa cinerea* (Temminck, 1824)] (a pouchless marsupial: Tate's woolly mouse opossum; "cuíca"). Parasite: *Porocephalus crotali* (larvae).

Philander opossum opossum (Linnaeus, 1758) [= *Philander opossum* (Linnaeus, 1758)] (gray four-eyed opossum; "cuica"). Parasite: *Porocephalus crotali* (larvae).

DIPROTODONTIA: PHALANGERIFORMES: PETAUROIDEA: PETAURIDAE:

Petaurus breviceps breviceps (Waterhouse, 1838) [= *Petaurus breviceps* (Waterhouse, 1838)] (sugar glider). Parasite: *Yelirella petauri* (in lungs and nasal sinus).

ERINACEOMORPHA: ERINACEIDAE: ERINACEINAE:

Atelerix albiventris (Wagner, 1841) [= *Atelerix pruneri oweni* (Setzer, 1953)] (four-toed hedgehog). Parasite: *Armillifer armillatus* (nymph in body cavity).

Atelerix frontalis frontalis (A. Smith, 1831) [= *Antechinus frontalis* A. Smith, 1831] (southern African hedgehog, an insectivore). Parasite: *Armillifer armillatus* (larvae).

Erinaceus Linnaeus, 1758 sp. Parasite: *Linguatula serrata*.

Hemiechinus auritus auritus (Gmelin, 1770) [= *Erinaceus auritus* Gmelin, 1770; *Hemiechinus auritus* (Gmelin, 1770)] (long-eared hedgehog). Parasites: *Armillifer armillatus*; *Linguatula serrata* (nymphs); *L. sp.* (nymph).

Paraechinus aethiopicus aethiopicus (Ehrenberg, 1832) [= *Erinaceus aethiopicus* (Ehrenberg, 1832)] (African hedgehog; desert hedgehog). Parasites: *Armillifer armillatus* (larvae); *Linguatula serrata* (juveniles).

LAGOMORPHA: LEPORIDAE:

Lepus capensis capensis Linnaeus, 1758 [= *Lepus capensis* Linnaeus, 1758] (Cape hare; Egyptian hare). Parasite: *Linguatula serrata* (in pleural cavity, causing parasitosis).

Lepus (Eulagos) europaeus europaeus Pallas, 1778 [= *Lepus europaeus* Pallas, 1778] (common hare; European hare). Parasite: *Linguatula serrata* (nymphs).

Lepus (?) *Eulagos*) *granatensis granatensis* Rosenhauer, 1856 [= *Lepus capensis granatensis* Rosenhauer, 1856; *Lepus granatensis granatensis* Rosenhauer, 1856] (common hare). Parasite: *Linguatula serrata*.

Lepus (Lepus) timidus timidus Linnaeus, 1758 (blue hare; mountain hare). Parasite: *Linguatula serrata* (causing linguatulosis).

Oryctolagus cuniculus cuniculus (Linnaeus, 1758) [= *Lepus cuniculus* Linnaeus, 1758; *Oryctolagus cuniculus* (Linnaeus, 1758)] (common rabbit; European rabbit). Parasite: *Linguatula serrata* (nymphs in lungs).

Sylvilagus (Sylvilagus) floridanus floridanus (J.A. Allen, 1890) [= *Sylvilagus floridanus* (J.A. Allen, 1890)] (cottontail rabbit; eastern cottontail). Parasite: *Linguatula serrata* (nymphs).

MACROSCELIDEA: MACROSCELIDAE:

Macroscelides A. Smith, 1829 sp. (elephant shrew). Parasite: *Armillifer armillatus* (young stages).

PERAMELEMORPHIA: PERAMELIDAE: PERAMELINAE:

Isodon macrourus macrourus (Gould, 1842) [= *Isodon macrourus* (Gould, 1842)] (northern brown bandicoot). Parasite: *Armillifer arborealis* (in liver and lung).

Perameles nasuta É. Geoffroy, 1804 (long-nosed bandicoot). Parasite: *Armillifer australis* (nymph in oesophagus).

PERISSODACTYLA: EQUIIDAE:

Equus asinus asinus Linnaeus, 1758 [= *Equus asino-caballus* auct.] (ass; donkey; "jegue"; mule). Parasite: *Linguatula serrata* (nymphs and adults).

Equus caballus caballus (Linnaeus, 1758) [= *Equus caballus* (Linnaeus, 1758)] (horse). Parasite: *Linguatula serrata* (juveniles and adult).

PERISSODACTYLA: TAPIRIDAE:

Tapirus indicus indicus (Desmarest, 1819) [= *Tapirus indicus* (Desmarest, 1819)] (Malayan tapir). Parasite: *Armillifer moniliformis moniliformis* (nymphs).

PRIMATES: HAPLORRHINI: SIMIIFORMES: CEBIDAE: CALLITRICHINAE:

Leontopithecus chrysopygus (Mikan, 1823) [= *Midas chrysopygus* Mikan, 1823; *Mystax chrysopygus* (Mikan, 1823)] (black lion tamarin; golden-rumped marmoset; yellow-tailed tamarin; "mico-leão-preto"). Parasite: *Porocephalus crotali* (nymphs in lung).

Leontopithecus rosalia (Linnaeus, 1766) (golden lion tamarin; "mico-leão-dourado"). Parasite: *Porocephalus* sp.

Saguinus Hoffmannsegg, 1807 sp. (a tamarin). Parasite: *Porocephalus crotali* (larvae). *Saguinus mystax mystax* (Spix, 1803) [= *Saguinus mystax* (Spix, 1803)] (moustached tamarin). Parasite: *Porocephalus* (causing infection).

PRIMATES: HAPLORRHINI: SIMIIFORMES: CEBIDAE: CEBINAE:

Cebus capucinus Linnaeus (White-headed capucnin). Parasite: *Armillifer*.

"*Cebus defassa*" (a primate). Parasite: *Neolinguatula nuttalli*. Remarks: Not listed in Wilson & Reeder (2005).

PRIMATES: HAPLORRHINI: SIMIIFORMES: CEBIDAE: SAIMIRINAE:

Saimiri sciureus sciureus (Linnaeus, 1758) [= *Callitrix sciurea* (Linnaeus, 1758); *Saimiri sciureus* (Linnaeus, 1758)] (brown cappucin; common squirrel monkey). Parasites: *Pentastomida* sp.; *Porocephalus clavatus* (larvae); *P. sp.* (nymphs in brain); *P. stilesi* (nymph in brain).

PRIMATES: HAPLORRHINI: SIMIIFORMES: CERCOPITHECOIDEA: CERCO-PITHECIDAE: CERCOPITHECINAE:

Cercocebus atys atys (Audebert, 1797) [= *Cercopithecus fuliginosus* (É. Geoffroy, 1812; *Erythrocebus fuliginosus* (É. Geoffroy, 1812)] (sooty mangabey, an old world monkey). Parasite: *Armillifer armillatus* (young forms).

Cercopithecus albogularis albogularis (Sykes, 1831) [= *Cercopithecus albogularis* (Sykes, 1831)] (an African primate: Sykes' guenon; Syke's monkey). Parasite: *Armillifer armillatus* (larvae).

Cercopithecus mona (Schreber, 1774) (mona monkey). Parasite: *Armillifer armillatus* (larvae).

Cercopithecus nictitans nictitans (Linnaeus, 1766) (greater spot-nosed monkey). Parasite: *Armillifer armillatus*.

Chlorocebus aethiops Linnaeus, 1758 [= *Cercopithecus aethiops* (Linnaeus, 1758); *Cercopithecus engyithia* (Hermann, 1804)] (grivet; malbrouck monkey; tota; white-nosed monkey). Parasite: *Armillifer armillatus* (larvae).

Chlorocebus cynosuros Scopoli 1786 [= *Cercopithecus aethiops cynosuros* Scopoli 1786] (grivet; malbrouck). Parasite: *Armillifer armillatus* (larvae in mesenteries).

Chlorocebus sabaeus (Linnaeus, 1766) [= *Cercopithecus callitrichus* I. Geoffroy, 1851] (green guenon, green monkey, callitrix monkey). Parasites: *Porocephalus stilesi* (larva in lung); *P. subulifer* (young stages encysted in lung).

Chlorocebus tantulus tantulus (Ogilby, 1841) [= *Cercopithecus pousarguei* Mitchell, 1897; *Cercopithecus tantulus* Olgiby, 1841] (misspelling)] (an African primate: Pousargue's guenon; tantulus guenon; tantulus monkey). Parasite: *Armillifer armillatus* (larvae).

Erythrocebus patas Schreber, 1775 [= *Cercopithecus patas* Schreber, 1775] (patas monkey). Parasite: *Armillifer armillatus* (young stages).

Macaca fascicularis fascicularis (Raffles, 1821) [= *Macaca fascicularis* (Raffles, 1821); *Macaca irus* I. Geoffroy, 1826; *Macacus cynomolgus* (Schreiber, 1775)] (crab-eating macaque; cynomolgus monkey; long-tailed macaque; macaque monkey; Philippine monkey; Sumatran monkey). Parasites: *Armillifer agkistrodontis* (nymphs); *A. armillatus* (nymphs); *A. moniliformis moniliformis* (nymphs causing porocephalosis); *Porocephalus* sp.

Macaca mulatta (Zimmermann, 1780) [= *Macacus rhesus* (Audebert, 1798)] (rhesus monkey). Parasites: *Armillifer armillatus* (nymphs); *A. moniliformis moniliformis* (nymphs causing pentastomiasis).

Macaca nemestrina (Linnaeus, 1766) [= *Nemestrinus nemestrinus* Linnaeus, 1766] (southern pig-tailed macaque). Parasite: *Armillifer moniliformis moniliformis* (larvae).

Mandrillus sphinx (Linnaeus, 1758) [= *Cynocephalus mormon* Alströmer, 1766; *Mandrillus maimon* (Linnaeus, 1766)] (Guinea baboon; mandrill). Parasite: *Armillifer armillatus* (juvenile).

Papio cynocephalus cynocephalus (Linnaeus, 1766) [= *Papio cynocephalus* (Linnaeus, 1766)] (yellow baboon). Parasite: *Armillifer armillatus* (larvae).

Papio cynocephalus ibleanus Thomas, 1910 [= *Periodictus ibleanus* Thomas, 1910] (a prosimian loriid baboon: Bosman's potto; eastern potto). Parasite: *Armillifer armillatus* (nymphs).

Papio papio (Desmarest, 1820) (Guinea baboon). Parasite: *Armillifer armillatus* (larvae).

Papio ursinus ursinus (Kerr, 1792) [= *Cynocephalus porcarius* Boddaert, 1787; *Papio porcari* (Boddaert, 1787)] (chacma baboon). Parasite: *Armillifer armillatus* (larvae).

PRIMATES: HAPLORRHINI: SIMIIFORMES: HOMINOIDEA: HOMINIDAE:

Homo sapiens Linnaeus, 1758 (human; man). Parasites: *Armillifer agkistrodontis*; *A. armillatus* (porocephaliasis; larvae in abdomen, eye, and lacrimal caruncle; 3rd stage nymphs; encysted in small intestine; in lungs, liver intestine, and ovarium; causing pentastomiasis and itching); *A. grandis* (nymphs in lungs; causing visceral pentastomiasis); *A. moniliformis moniliformis* (nymph in liver, causing visceral pentastomiasis); *Kiricephalus affinis* (aetiology of human porocephalosis); *Leiperia cincinnalis* (nymphs); *Linguatula serrata* (larvae in anterior chamber of eye, lungs, spleen, liver, intestine and stools, causing hepatic granuloma; adults in lungs, causing halzoun or marrara syndrome); *Porocephalus crotali* (nymphs causing human visceral pentastomiasis); *P. subulifer* (in African human; in hernial sac; ganglioma; causing infection and nymphal porocephalosis); *P. taiwana* (nymphs causing porocephalosis taiwana in humans); *Sebekia* sp. (nymph causing human dermatitis).

Pan troglodytes troglodytes (Blumenbach, 1775) [= *Anthropopithecus troglodytes* Blumenbach, 1775; *Pan chimpanse* Meyer, 1856; *Pan satyrus* (Linnaeus, 1758); *Pan troglodytes* (Blumenbach, 1775)] (common chimpanzee; robust chimpanzee). Parasites: *Armillifer armillatus* (nymphs); *Porocephalus* sp. (larva).

PRIMATES: HAPLORRHINI: SIMIIFORMES: PITHECIIDAE: CALLICEBINAE:

Callicebus (*Callicebus*) *caligatus* (Wagner, 1842) [= *Callicebus caligatus* (Wagner, 1842)] (chestnut bellied titi, a South American primate). Parasites: *Linguatula recurvata* (larva); *Linguatula* sp. (larvae).

PRIMATES: HAPLORRHINI: SIMIIFORMES: PITHECIIDAE: PITHECINAE:

Pithecia irrorata Gray, 1842 (parauacu; rio Tapajós saki). Parasite: *Porocephalus* sp. (in lungs and aorta).

PRIMATES: STREPSIRRHINI: LEMURIFORMES: CHEIROGALEOIDEA: CHEIROGALEIDAE:

Cheirogaleus medius (É. Geoffroy, 1812) (lesser dwarf lemur). Parasite: *Gigliolella brumpti* (larvae).

PRIMATES: STREPSIRRHINI: LORISIFORMES: GALAGIDAE:

Euoticus elegantulus (Le Conte, 1857) [= *Galago elegantulus* Conte, 1857] (southern needle-clawed bushbaby, a prosimian). Parasite: *Armillifer armillatus* (larvae in coelom and intestine).

Galago senegalensis senegalensis É. Geoffroy, 1796 [= *Galago senegalensis* É. Geoffroy, 1796; *Galago (Otolicnus) senegalensis* É. Geoffroy, 1796] (lesser bush baby; lesser galago; Senegal bushbabie; Senegal galago). Parasites: *Armillifer armillatus* (young stages); *Porocephalus subuliferum* (larvae).

Otolemur crassicaudatus crassicaudatus É. Geoffroy Saint-Hilaire, 1812 [= *Galago crassicaudatus* (É. Geoffroy Saint-Hilaire, 1812)] (brown greater galago; thick-tailed bush baby; thick-tailed galago). Parasite: *Armillifer armillatus* (encysted nymphs).

PRIMATES: STREPSIRRHINI: LORISIFORMES: LORISIDAE:

Loris tardigradus Linnaeus, 1758 [= *Nycticebus tardigradus* (Linnaeus, 1758); *Paradoxurus tardigradus* (Linnaeus, 1758)] (a lemurid; galago; red slender Loris; slow loris). Parasite: *Armillifer moniliformis moniliformis* (larvae in intestine).

Nycticebus coucang coucang Boddaert, 1785 [= *Nycticebus coucang* Boddaert, 1785]. (Bengal slow loris). Parasite: *Armillifer moniliformis moniliformis* (juveniles).

Periodicticus potto potto Müller, 1766 [= *Periodicticus potto* Müller, 1766] (potto). Parasite: *Armillifer armillatus*.

RODENTIA: ANOMALUROMORPHA: ANOMALURIDAE: ANOMALURINAE:

Anomalurus derbianus (Gray, 1842) [= *Anomalurus fraseri* (Waterhouse, 1843) (lord Derby's scaly-tailed squirrel)]. Parasite: *Armillifer armillatus* (larvae in coelomic cavity and stomach).

RODENTIA: HYSTROCOMORPHA: HYSTRICOGNATHI: ABROCOMIDAE:

Abrocoma bennettii bennettii Waterhouse, 1837 [= *Abrocoma bennettii* Waterhouse, 1837] (Bennett's chinchilla rat). Parasite: *Linguatula serrata* (nymphs).

RODENTIA: HYSTRICOMORPHA: HYSTRICOGNATHI: CAVIIDAE: CAVIINAE:

Cavia porcellus (Linnaeus, 1758) [= *Cavia cobaya* Marcgrave, 1648; *Cavia cutleri* Bennett, 1835] (domesticated Guinea pig). Parasites: *Armillifer armillatus*; *Linguatula serrata* (larvae in lung); *Porocephalus stilesi*.

RODENTIA: HYSTRICOMORPHA: HYSTRICOGNATHI: CAVIIDAE: HYSTRICIDAE:

Hydrochoerus Brisson, 1762 sp. Parasite: *Linguatula* sp.

RODENTIA: HYSTROCOMORPHA: HYSTRICOGNATHI: HYSTRICIDAE:

Atherurus africanus Gray, 1842 (African bush-tailed porcupine; African tufted-tailed porcupine). Parasite: *Armillifer armillatus* (larvae).

Hystrix (Hystrix) cristata (Linnaeus, 1758) [= *Hystrix cristata* (Linnaeus, 1758)] (crested porcupine; European porcupine). Parasite: *Linguatula serrata* (nymphs in lung).

RODENTIA: HYSTROCOMORPHA: HYSTRICOGNATHI: OCTODONTIDAE:

Octodon degus (Molina, 1782) [= *Octodon degus degus* (Molina, 1782)] (degu). Parasite: *Linguatula serrata* (nymphs).

RODENTIA: MYOMORPHA: MUROIDAE: CRICETIDAE: SIGMODONTINAE:

Necomys lasiurus (Lund, 1840) [= *Zygodontomys pixuna* Moojen, 1943] (hairy tailed akodont). Parasites: not *Armillifer moniliformis moniliformis* [wrong identification]; *Porocephalus crotali* (nymphs causing larval pentastomiasis).

Oryzomys palustris (Harlan, 1837) (marsh oryzomys; rice rat). Parasite: *Porocephalus crotali*.

Oxymycterus rufus (Fischer, 1814) [= *Hesperomys rufus* Fischer, 1814] (rufous hocicudo). Parasite: *Kiricephalus coarctatus*.

Thaptomys nigrita (Lichtenstein, 1829) [= *Akodon fuliginosus* (Wagner, 1845); *Akodon nigrita* (Lichtenstein, 1829)] (blackish grass mouse; Brazilian field mouse; ebony akodont; "rato-do-mato"). Parasite: *Porocephalus crotali* (larvae).

Wiedomys pyrrhorhinos (Wied Neuwied, 1821) [= *Mus pyrrhorhinos* Wied Neuwied, 1821; *Oryzomys pyrrhorhinos* (Wied Neuwied, 1821); *Rhipidomys pyrrhorhinos* (Wied Neuwied, 1821)] (Brazilian field mouse; red-nosed wiedomys). Parasite: *Porocephalus crotali* (larvae in liver).

RODENTIA: MYOMORPHA: MUROIDEA: MURIDAE: DEOMYINAE:

Acomys (*Acomys*) *cahirinus* É. Geoffroy, 1803 [= *Acomys cahirinus* É. Geoffroy, 1803] (northeast African spiny mouse). Parasite: *Linguatula serrata* (nymph in liver).

RODENTIA: MYOMORPHA: MUROIDEA: MURIDAE: GERBELLINAE:

Meriones (*Pallasiomys*) *unguiculatus* Milne-Edwards, 1867 [= *Meriones unguiculatus* Milne-Edwards, 1867] (Mongolian jird; gerbil). Parasite: *Linguatula serrata* (nymphs).

RODENTIA: MYOMORPHA: MUROIDEA: MURIDAE: MURINAE:

Bandicota indica (Bechstein, 1800) [= *Nesocia bandicota* (Bechstein, 1800)] (greater bandicoot-rat). Parasite: *Linguatula serrata* (intermediate host).

Mus (*Mus*) *musculus domesticus* Schwarz & Schwarz, 1943 [= *Mus domesticus* Schwarz & Schwarz, 1943] (west European mouse). Parasites: *Linguatula serrata* (larvae); *Porocephalus crotali* (larvae); *P. stilesi* (experimentally infected host).

Mus (*Mus*) *musculus musculus* Linnaeus, 1758 [= *Mus musculus* Linnaeus, 1758] (east European house mouse). Parasites: *Porocephalus clavatus*; *P. crotali*.

Rattus G. Fischer, 1803 sp. Parasite: *Porocephalus crotali*.

Rattus leucopus (Gray, 1867) [= *Rattus leucopus cooktownensis* Tate, 1951] (Cape York rat; native rat). Parasites: *Armillifer australis* (encysted nymphs in body cavity); *A. moniliformis moniliformis*

Rattus norvegicus (Berkenhout, 1769) [= *Mus norvegicus* Berkenhout, 1769] (brown Norwegian rat; brown rat; surmulot). Parasites: *Linguatula serrata* (nymph); *Porocephalus stilesi* (host infected experimentally).

Rattus rattus (Linnaeus, 1758) [= *Mus fuliginosus* Bonaparte, 1833; *Mus rattus* Linnaeus, 1758] (black rat; roof rat). Parasites: *Armillifer armillatus* (young forms); *Linguatula serrata* (nymph); *Porocephalus crotali* (larvae in thoracic and abdominal cavity).

Rattus tiomanicus (Miller, 1900) (Malaysian field rat; wood rat). Parasite: *Armillifer* sp.

RODENTIA: MYOMORPHA: MUROIDEA: NESOMYIDAE: CRICETOMYIDAE:

Cricetomys gambianus Waterhouse, 1840 (Gambian pouched rat; northern giant pouched rat). Parasite: *Armillifer armillatus* (young stages).

RODENTIA: SCIUROMORPHA: SCIURIDAE: XERINAE: XERINI:

Xerus (*Euxerus*) *erythrophus erythrophus* Desmarest, 1817 [= *Xerus erythrophus* Desmarest, 1817] (red-footed ground-squirrel; striped ground-squirrel). Parasite: *Armillifer armillatus* (young stages).

SCANDENTIA: TUPAIIDAE:

Tupaia glis (Diard, 1820) (common tree shrew). Parasite: *Armillifer moniliformis moniliformis*.

SORICOMORPHA: SORICIDAE: CROCIDURINAE:

Crocidura fuliginosa fuliginosa (Blyth, 1855) [= *Crocidura fuliginosa* (Blyth, 1855)] (sooty shrew; southern Asian shrew). Parasite: *Porocephalus crocidurae* (nymph in peritoneum).

TUBULIDENTATA: ORYCTEROPODIDAE:

Orycteropus afer aethiopicus Sundevall, 1843 [= *Orycteropus aethiopicus* Sundevall, 1843] (aardvark, an edentate). Parasite: *Armillifer armillatus* (young forms).

Synthesis of pentastomes and pentastomiasis

Pentastomes in insects; Four species of *Raillietiella* are known from four species of insects (three conchroaches and one scarabeid coleopteran).

Pentastomes and pentastomiasis in fish; Fish do not harbor adult pentastomes, but they are common intermediate hosts for pentastome species of crocodilians and piscivorous chelonians, and rarely for some pentastomes of snakes (Paré, 2008). Species so far known from fish hosts are *Sebekia mississippiensis*, *S. oxycephalum*, *Subtriquetra subtriquetra*, *S. rileyi*, *Leiperia cincinnalis*, *L. gracilis*, *Kiricephalus pattoni*, *Raillietiella* sp. and *Alofia* sp. Fish become infected when ingesting infective ova. Primary larvae migrate to viscera, muscles, swim bladder, or other tissues of the infected fish to encyst and develop into nymphs. The parasite burden may even kill the fish, especially small species. Fish may also be a source of infection for captive crocodilians (Paré, 2008).

The mosquitofish *Gambusia affinis affinis* showed a mild inflammatory response to developing nymphs of *Sebekia mississippiensis*, whereas the swordtails *Xiphophorus helleri* were observed to present an extensive granulomatous inflammatory reaction accompanied with granulomatous hemorrhage, myositis, and myodegeneration when infested with nymphs of this species (Boyce et al., 1987). Four African dwarf crocodile hatchlings in a zoological collection all died acutely of *Sebekia mississippiensis* infection when fed with bait fish harbouring nymphs (Adams et al., 2001).

In the atypical case of *Subtriquetra* species, fish become infected by transcutaneous penetration of primary larvae (Riley, 1986). The primary larvae is free-living only in this genus of pentastome, and they attach to the skin of passing fish by means of specialized hooks located at their caudal end (Riley, 1986). Larvae of *Subtriquetra* consequently appear to be particularly more detrimental to fish than those of other crocodilian pentastomes (Paré, 2008).

Pentastomes in amphibians; Species of *Raillietiella* infect the lungs of bufonid toads as adults, and use coprophagous insects, such as cockroaches, as intermediate hosts (Barton & Riley, 2004). Infection with adult pentastomes has yet to be documented in anurans other than bufonids, such as urodeles and caecilians (Paré, 2008). Cane toads, *Rhinella marina*, introduced in Hawaii, have become infected with *Raillietiella indica* and *R. hebitihamata*. Infection with *R. indica* and *R. rileyi* occurs in the black-spined toad, *Duttaphrynus melanostictus*, from southeast Asia (Paré, 2008). *R. bufonis* is reported only from the Puerto Rican crested toad, *Peltophryne lemur* (Barton & Riley, 2004). Larvae of *R. mediterranea* were found in *Amietophrynus mauritanicus* (Nicole, 1963). *Raillietiella freitasi* was identified in the lungs of *Rhinella schneideri* in Brazil (Almeida et al., 2006b). Pentastome ova, likely *Raillietiella*, were also observed in the feces of a captive *Rhaebo blomeri* (Paré, 2008).

On the other hand, several Australasian and Neotropical frogs and toads are the first of a series of intermediate hosts for *Kiricephalus pattoni*, the adults of which are found in the lungs of snakes (Riley, 1986). Finally, species of *Waddycephalus* and probably other pentastome genera (perhaps *Elenia*) may also cycle through frogs (Paré, 2008).

Pentastomes and pentasomiasis in reptiles: Reptiles are the most frequent definitive hosts of pentastomes. Crocodiles, some piscivorous chelonians, lizards, and the larger and constricting snake species, are affected (Paré, 2008). Infection of definitive hosts with more than one pentastome species is possible (Almeida et al., 2007).

Pentastomes are hematophagous, and, although anemia would be suspected in heavily parasitized reptilian hosts, this has yet to be documented. Morbidity is often associated with larval and nymphal migration and moulting, and by damage inflicted to the pulmonary lining by the hooks and mouth of feeding adults that often lead to secondary bacterial or fungal pneumonia and possible septicemia (Paré, 2008).

Crocodylians are host to six genera of pentastomes, all of which likely use fish as intermediate hosts (Paré, 2008). *Agema* is found in African dwarf crocodiles, *Osteolaemus tetraspis*, and slender-snouted crocodiles, *Mecistops cataphractus*. Species of *Alofia* infect African and Australasian crocodiles, gharials, *Gavialis gangeticus*, in India, and caimans in the Neotropics. *Leiperia* species are found in African and South American crocodiles and in both freshwater *Crocodylus johnsoni* and saltwater *C. porosus* in Australia. Females infect the bronchi, but males and immature parasites are found in the large vessels (aorta, pulmonary artery) of the heart. The monotypic *Selfia porosus* is a parasite of saltwater crocodiles in Australia. The genus *Sebekia* includes 15 species found in crocodylians worldwide. *Sebekia mississippiensis* and *S. oxycephalum* occur in North American alligators, *Alligator mississippiensis* (Junker & Boomker, 2006).

Subtriquetra subtriquetra is a parasite of spectacled caimans, *Caiman crocodilus*, and black caimans, *Melanosuchus niger*, whereas *S. megacephala* and *S. shipleyi* are found in muggers, *Crocodylus palustris*, and possibly other Indomalayan crocodylians (Junker & Boomker, 2006).

Pentastomids are more likely to cause clinical disease and pathology in captive reptiles, possibly because of stress. Pentastome infection are known to impact crocodile and alligator farming operations (Buenviaje et al., 1994; Ladds et al., 1995; Jacobson, 2007) because hatchling and young crocodylians appear more susceptible to disease (Adams et al., 2001).

Regarding Chelonia, carnivorous (piscivorous) turtles may be definitive hosts to pentastomes in two monotypic genera of pentastomes (Paré, 2008). *Diesingia* has been described from two Neotropical Chelidae, Geoffrey's toad-headed, or side-necked, turtle, *Phrynops geoffroanus*, and the Argentine snake-necked turtle, *Hydromedusa tectifera* (Junker et al., 2003). *Pelonia africana* infects the African helmeted turtle, *Pelomedusa sub-rufa subrufa*, and the serrated mud turtle, *Pelusios sinuatus* (Junker & Boomker, 2002). Snapping turtles, *Chelydra serpentina*, are experimentally and probably naturally susceptible to infection with *Sebekia oxycephalum*, a parasite of alligators (Riley, 1986).

Lacertilia may serve as definite or intermediate pentastome hosts. Most of the 41 species-level taxa of *Raillietiella* are relatively small and infect lizards (Paré, 2008). Infective nymphs are encysted in the fat bodies or on the surface of the viscera of insect intermediate hosts and insectivorous lizards such as geckos, skinks, teiids, agamas, chameleons, bearded dragons, while amphisbaenid worm lizards are definitive hosts (Riley, 1986). Imported gecko species, such as tokays, *Gekko gecko gecko*, and Mediterranean house geckos, *Hemidactylus turcicus turcicus*, are also commonly diagnosed with infections by species of *Raillietiella*. *Sambonia* species are found in both African and Asian varanid lizards, including the Komodo dragon, *Varanus komodoensis*. Pentastomes in the

genus *Elenia* are also adapted to monitor lizards (*Varanus*). The life cycles of both genera involve terrestrial vertebrates (Riley, 1986).

Ophidia are definitive hosts for many pentastomes but may also serve as intermediate hosts. Elapids (e.g., cobras, mambas), viperids (e.g., Gaboon vipers, rhinoceros vipers), and crotalids (e.g., rattlesnakes, cottonmouth) are common definitive hosts, and most of these animals in private or zoological collections are wild-caught, potentially infected specimens. Large pythons and boas are also well represented among ophidian definitive hosts (Paré, 2008).

Cephalobaena tetrapoda infects the lungs of Neotropical snakes, mostly viperids and crotalids. The cephalothorax is unmistakable, looking like an open hand (Almeida et al., 2006a), but intermediate hosts remain unknown.

Raillietiella bicaudata infects various colubrids in North America (Cosgrove et al., 1984). Thus snakes are included among definitive hosts, even though most species of *Raillietiella* are found in lizards (Paré, 2008).

Pentastomes may be translocated with their hosts to new geographical areas, and may then cross-infect new host species (Paré, 2008). This is best illustrated by Asian house geckos, *Hemidactylus frenatus*, introduced to Hawaii in the 1940s, which likely harbored *Raillietiella hebitihamata*. Subsequently, *R. hebitihamata* infected mourning geckos and brown anoles, *Norops sagrei*, having been found on the islands (Barton & Riley, 2004). Asian house geckos introduced to Australia have also been shown to be infected with *R. hebitihamata* (Barton, 2007).

Morbidity and mortality associated with progressive pneumonia from infection with adult *Raillietiella* were described in wild geckos located in Nigeria, suggesting that pentastomes may act as regulators of wild reptile populations under certain circumstances (Riley, 1986).

Imported wild-caught reptiles in private and zoological collections may also develop overt disease from pentastome infection. This was the case in Bosc's monitor lizards, *Varanus exanthematicus*, parasitized by a *Sambonia* species (Ladds et al., 1995; Flach et al., 2000; Paré, 2008).

Kiricephalus pattoni of Southeast Asia and *K. coarctatus* from the Americas are the two best known of the five species in the genus, all having a distinctive knob-head cephalothorax (Riley & Self, 1980). Indigo snakes, *Drymarchon corais corais* in the eastern United States are commonly infected with *K. coarctatus* (Jacobson, 2007), which is also found in other North American colubrids (e.g., *Thamnophis* spp., *Nerodia* spp., *Masticophis* spp.) (Cosgrove et al., 1984). All *Kiricephalus* species infect snakes, with the adults primarily located in the lungs, but they are occasionally found beneath the skin and other unusual locations. The eggs are infective to frogs, lizards, and mammals (Paré, 2008). Smaller snakes are the second intermediate hosts, and ophiophagous snakes are definitive hosts (Riley & Self, 1980).

Species of *Porocephalus* are restricted to American snakes. *Porocephalus crotali* in the United States is a common parasite of rattlesnakes, cottonmouths, *Agkistrodon piscivorus*, and copperheads, *Agkistrodon contortrix mokasen*, with rodents acting as intermediate hosts (Cosgrove et al., 1984). *Porocephalus clavatus* infects Neotropical boas and uses mammals such as callitrichid and cebid monkeys as intermediate hosts. *Porocephalus subuliferum* is found in the ophiophagous African file snakes, genus *Gonionotophis* (Riley, 1986).

Up to 100 adult *Porocephalus crotali* were recovered from the lung of a wild, apparently healthy rattlesnake (Riley, 1986). Infection of wild reptiles with pentastomes, even with large worm burdens, is generally subclinical (Paré, 2008).

Species of *Armillifer* are important parasites of snakes. They cycle through a number of mammalian prey species, but also accidentally infect nonprey species. Their body is cylindrical and conspicuously annulated. They are involved in most cases of human nymphal pentastomiasis (Paré, 2008).

The two *Cubirea* species are known mostly from African cobras, and possibly vipers, with birds most likely serving as intermediate hosts (Riley, 1986).

The monotypic *Giglioella brumpti* infects the imported Madagascan tree boa, *Sanzinia madagascariensis madagascariensis*, causing pneumonia and death, and cycles through three species of Madagascan mammals, including lemurs (Slocombe & Budd, 1973; Riley, 1986).

The genus *Waddycephalus* consists of 10 species found in Australian snakes, although at least one species is reported from Southeast Asia and Oceania (Riley & Self, 1981a). Elapids are well represented among host species, in particular Australian copperheads, *Austrelaps superbis*, tiger snakes, *Notechis scutatus scutatus*, and red-bellied black snakes, *Pseudechis porphyriacus porphyriacus* (Riley & Self, 1981a). Mammals, lizards, and frogs may act as intermediate hosts (Riley, 1986).

The two *Parasambonia* species are restricted to Australian elapids, mostly red-bellied black and tiger snakes (Riley & Self, 1982). Intermediate hosts may also be mammals, lizards, or frogs (Riley, 1986).

Pentastomes in birds; Birds are often overlooked as hosts of pentastomid parasites, although infection of sea birds with species of *Reighardia* has long been described (Riley, 1986; Hoberg, 1987). *Reighardia sterna* is found in the air sacs of gulls, terns, and other larids, as well as skuas (Hoberg, 1987), whereas *R. lomviae* is found in guillemots, puffins, and other alcids (Riley, 1986). Both parasites appear to have a cosmopolitan distribution. Adult females of *Reighardia* are elongate and slender (7-8 cm) and have a particular knobby appearance imparted to them by tubercles on the cuticle (Riley et al., 2003). In this genus, the life cycle is direct, and transmission probably occurs through ingestion of vomited material, feces, or through regurgitation of food from parents to nestlings. Autoinfection also occurs, which is rare in pentastomids. Female *R. sterna* die shortly after laying ova, rather than laying eggs continually as do other species of pentastomids (Paré, 2008). *Reighardia sterna* infects mostly juvenile gulls, whereas *R. lomviae* is found in alcids of all ages, although clinical signs or morbidity have not been described (Riley, 1986). *Reighardia* was the only pentastome genus described from birds until *Raillietiella trachea* was recovered from the trachea of a single fledgling oriental white-backed vulture in Pakistan, *Gyps bengalensis* (Riley et al., 2003). Since then, *Hispania vulturis* was created to accommodate pentastomes collected from the air sacs of an injured Eurasian black vulture in Spain, *Aegypius monachus* (Martínez et al., 2004). The true prevalence of these two pentastomes in Old World vultures is unknown, and no signs were attributed to the parasites, which are small, and may thus be easily overlooked (Paré, 2008).

Birds are rarely involved as intermediate hosts for pentastomes, but encysted *Cubirea annulata* has been cited in the crane, *Grus virgo* (Shiple, 1898), while larvae of *C. pomeroyi* have been cited in the same host by Heymons (1940b), and nymphs of both

species have been described from a water hen, or gallinule, *Porphyrio* sp., in Africa (Riley, 1986). There are also occurrences of larvae of *Leiperia gracilis* in the blue heron, *Ardea cocoi* (Rego, 1984a), of *Armillifer armillatus* in the spotted eagle-owl, *Bubo africanus* (Heymons, 1940b) and in the honey-buzzard, *Pernis apivorus* (Natvig, 1932), and of *Linguatula serrata* in the nymph knots of the sea-gull, *Larus* (Bogdaschew, 1930).

Pentastomes and pentastomiasis in non-human mammals; Mammals are common intermediate hosts for many ophidian pentastomes (Paré, 2008). No less than seven species and subspecies of *Armillifer*, six of *Linguatula*, five of *Porocephalus*, two of *Sebekia*, two of *Kiricephalus*, as well as *Leiperia gracilis*, *Reighardia sterna*, *Yelirella petauri*, *Neolinquatula nuttalli*, *Gigliolella brumpti* and *Waddicephalus* sp. were registered above.

Yelirella petauri, the smallest known adult pentastome (1.5 mm long), likely has a direct life cycle and is a parasite of sugar gliders in Australia, *Petaurus breviceps breviceps* (Spratt, 2003). All adult male *Yelirella petauri* was found in the lungs, while females were found in the nasal sinuses (Paré, 2008).

Mammals are also definitive hosts for six species in the genus *Linguatula*, five of them parasites of carnivores (Riley, 1986). Among the *Linguatula* species is *L. nuttalli*, found in the nasal passages of African lions, *Panthera leo leo*, and leopards, *P. pardus*. It cycles through the wild artiodactylid ungulates on which the felines prey. *Linguatula arctica* is a parasite of semidomesticated reindeer, *Rangifer tarandus tarandus*, in Scandinavia, and is the only known pentastome to use a herbivore as a definitive host (Riley, 1986). Worms are found in the nasopharynx, nasal cavities, and sinuses of calves and young animals. Infection in reindeer appears to be self-limiting over the course of two years (Riley, 1986). The life cycle is still unresolved, but probably involves ingestion of infective ova by young calves grazing on pasture contaminated by second-year sub-adult reindeer (Paré, 2008). Lions have harbored up to 75 adult 7-cm-long *Linguatula* in their nasal passages and sinuses (Riley, 1986). Notwithstanding, how heavy worm burdens impact host health remains unknown (Paré, 2008).

Pentastomes and pentastomiasis in man; The most common infective stages of the pentastomids in man include the primary and third-stage larva. Humans become infected by ingestion of eggs contained in respiratory secretions, blood, saliva, or feces of the definitive hosts. The primary larvae penetrate the gastrointestinal tract of the intermediate host, migrating and encysting in various host tissues. The third-stage larvae can also encyst and migrate. Exclusive involvement of the heart has also been reported previously. The severity of human visceral pentastomiasis may vary, although this stage is usually asymptomatic; humans are usually highly tolerant to pentastomid infections (Abadi et al., 1996). Pentastomids in humans may assail the respiratory tracts, liver, pancreas, intestine, and lymphatic vessels, mainly in the form of encysted nymphs (Self et al., 1975; Riley, 1986). Although most visceral infections produce few or no symptoms, severe infestation has caused intestinal obstruction, pneumoanitis, meningitis, pericarditis, nephritis, peritonitis, obstructive jaundice and even death (Mapp et al., 1976). Pentastomiasis is usually an incidental finding in an autopsy, a radiological examination, or during a surgical intervention (Abadi et al., 1996). Thus only some parasites pose a risk to man, who can act as intermediate host (Adeoye & Ogunbanwo, 2007).

Man is only rarely infected by adult pentastomids. The most severe medical cases involve *Linguatula serrata*. This is the only species that infects man as adults, causing respiratory pentastomiasis. *Linguatula serrata* is a cosmopolitan parasite whose interme-

diate hosts are humans and other mammals but are often herbivores such as cattle, goats, sheep, and other ruminants that have ingested parasite eggs contained in contaminated plants (Alcala-Canto et al., 2007). Infective nymphs are typically found in mesenteric and bronchial lymph nodes, liver, and kidney (Paré, 2008). Adult worms are found in the nasal cavities, frontal sinuses, and tympanic cavity of dogs, wolves, foxes, jackals, and other canids (Riley, 1986; Drabick, 1987; Bowman, 1995; Alcala-Canto et al., 2007).

This pentastome is responsible for most cases of human pentastomiasis in which the life cycle does not involve reptiles (Paré, 2008). Linguatulosis is an infection that affects most ruminants during its larval stages. When affecting human beings, the pathophysiological complications involving larval linguatulosis most likely include invasion of the liver tissue. A major protease secreted by the larval stage of *L. serrata* exhibits properties to degrade the extracellular matrix, which may facilitate invasion of the intermediate host tissue (Alcala-Canto et al., 2007). In endemic areas, humans become infected by domestic dogs. Ova expelled by sneezing, in nasal discharge, or possibly in the feces, may contaminate food, fingers, and water sources. When ingested, eggs hatch and primary larvae exit the digestive tract to encyst on viscera, thus causing visceral linguatulosis. Larvae will sometimes lodge in the anterior chamber of the eye and cause uveitis, but visceral linguatulosis is usually associated with minimal symptoms or pathology (Paré, 2008).

Nasopharyngeal linguatulosis, on the other hand, can manifest much more dramatically, occurring when humans ingest raw or undercooked viscera, such as sheep, goat and camel liver, containing encapsulated infective nymphs. Third-stage larvae of *L. serrata* are responsible for a self-limited nasopharyngitis known as Marrara in Sudan or Halzoun syndrome in Lebanon (Khalil & Schacher, 1965; Abadi et al., 1996). Schacher & Biaggi (1966) found nymphs of *L. serrata* in goats in Mexico, thus indicating a propitious condition for the incidence of pentastomiasis in arid regions of Latin America. The infected nymphs encyst in the stomach and quickly migrate up the esophagus and pharynx. An acute and sometimes fatal condition is characterized by nausea, vomiting, dyspnea, sneezing, coughing, dysphagia, and edematous congestion of the pharynx (Khalil & Schacher, 1965). Linguatulosis is exacerbated in humans with prior exposure to the parasite (Riley, 1986; Drabick, 1987; Paré, 2008). A fatal human case caused by *L. serrata* was reported for Lièvre (Lucas et al., 1957).

Nymphal parasitism, on the contrary, is not rare in man (Fain, 1975). Visceral pentastomiasis is caused mainly by *Linguatula serrata* and *Armillifer armillatus*.

In Africa the larva most commonly parasitic in man is that of *A. armillatus* (the adult form of which is parasitic in the lungs of pythons and big vipers) and the cysts are usually located in the abdominal viscera, particularly the liver and omentum, but sometimes in the lung and other organs (Alcock, 1923). The third stage of *A. armillatus* may cause diverse clinical manifestations in humans, including intestinal obstruction, pneumonitis with lobar collapse of the lung, bile duct blockage, meningitis, and even prostatitis (Symmers, 1957). In man the infestation results generally from the consumption of contaminated pond water or food infected by feces or lung mucus of snakes or carnivores, more rarely by eating infected snake meat (Fain, 1975).

Both *Linguatula serrata* and *Armillifer armillatus* can invade the subconjunctiva and reach the anterior chamber of the human eye (Rendtorff et al., 1962; Abadi et al., 1996).

Ocular localization of *Armillifer armillatus* has been reported in a boy in Liberia (Gratama & Thiel, 1957) and in a woman in Ecuador (Lazo et al., 1999).

A source of pentastomiasis is the ingestion of slightly cooked snakes and lizards in West Africa and southern Asia, provoked by species of *Porocephalus* and *Armillifer* (Self et al., 1975). In South America, pentastomiasis is usually associated with the subsistence strategy of eating a variety of small lizards in destitute populations in northeast Brazil and Colombia (Gast-Galvis, 1960). In arid regions of West Africa and Brazil pentastomiasis may also be associated by water contamination by infected serpents (Self et al., 1975; Faria & Travassos, 1913a, b). There is thus a correlation between socioeconomic factors and the occurrence of pentastomiasis: poor populations in semi-arid regions of Western Africa and the Americas are especially prone to this disease (Almeida et al., 2005).

Besides the two most common species causing pentastomiasis in man, *Linguatula serrata* and *Armillifer armillatus*, another nine species have been recorded as producing visceral pentastomiasis in man by action of their larval stages (J.K. Baird et al., 1988; Mairena et al 1989; Junker, 2002).

Armillifer moniliformis moniliformis, occurring as adults in African and Asian pythons, has been reported in man by Herzog & Hare (1907, as *Pentastomum constrictum*), Waldow (1908, 1910), Sambon (1909), Faust (1927), Fain (1975), C.P. Qiu et al. (2004), Tappe & Büttner (2009), and Latif et al. (2011). *Armillifer grandis* is another parasite of the lungs of African pythons and vipers, having been reported as nymphs in the lungs of man by Fain (1961b, 1975), Fain & Salvo (1966), Ette et al. (2003), M.H. Qiu & Jiang (2007), and Tappe & Büttner (2009), and includes a case of lethal pentastomiasis (Cagnard et al., 1979). A disease report case of visceral pentastomiasis in China and Taiwan was reported for *Armillifer agkistrodontis* (Q.Y. Zhang et al., 1996), whose life cycles include snakes as adult hosts and mice, rats and primates as intermediate hosts (Chen et al., 2010; Mätz-Rensing et al., 2012).

Most *Armillifer* spp. infections are acquired when undercooked snake meat is consumed, but may also involve ingestion of water contaminated with snake feces. Humans become accidental intermediate hosts. Infective nymphs exit the digestive tract and develop in the liver, mesentery, and intestinal wall (Riley, 1986). The initial phase of the disease is typically transient, but may be associated with pyrexia and colic, yet usually goes undiagnosed. Humans are dead-end hosts and nymphs, even if longlived, eventually die and calcify so that infection is often identified serendipitously through examination of abdominal radiographs or during a postmortem examination. A recent case of pentastomiasis was described in one woman in China in whom nymphs were recovered from her diarrheic feces (M.H. Qiu et al., 2005).

Although pentastomes carry strong zoonotic potential, among those parasitizing reptiles, only species of *Armillifer* have been unquestionably associated with accidental human infections (Paré, 2008). Basic hygiene dictates that feces and other biological material from reptiles should be handled with sanitary precautions, but it is emphasized that zoonotic implications for practically all of the non- *Armillifer* pentastomes encountered in captive or wild reptiles remain unsubstantiated (Paré, 2008).

Raillietiella affinis occurs in Africa and the aetiology of human porocephalosis by first larvae was discussed by Awachie (1974). Ingestion of live lizards for therapeutic reasons by humans in southeast Asia was linked to subsequent subcutaneous pentasto-

mid infection called "creeping disease" and was tentatively attributed to *Raillietiella hemidactyli* (Dollfus & Canet, 1954; Drabick, 1987). Man can be infected with *Raillietiella* sp., by having their hands contaminated from the faeces or saliva of the reptile, and accidentally ingesting the eggs (Nash, 2005). This pentastome may cause localized inflammation and intestinal infection in humans. Handling faecal contaminated water, dishes, and other equipment may also result in accidental transmission. Usually, there are no clinical signs; however, some people may develop localized inflammation. The larvae can encyst in various tissues, causing abdominal pain, vomiting, constipation, diarrhea, and a tender abdomen (Adeoye & Ogunbanwo, 2007). In isolated cases, septicemia may occur (Nash, 2005).

Porocephalus subuliferum, which as an adult is a parasite of certain African snakes, has been reported in man by Sambon (1922). *P. taiwana*, described from Taiwan on the basis of the morphology of the nymphs, causes porocephalosis taiwana in humans. Excystation of the nymphs was hypothesized to explain their presence in the feces, although there were no adult specimens to examine (M.H. Qiu et al., 2005). *Porocephalus crotali*, a parasite of rattlesnakes in America, has been doubtfully attributed as causing visceral pentastomiasis in man (Sambon, 1922a).

Recently a specific enzyme-linked immunoabsorbent assay (ELISA) based on isolates from the frontal glands of *Porocephalus crotali* has been used for the detection of pentastomid infections in intermediate hosts, specifically in rats (Abadi et al., 1996). These studies suggest that the ELISA can be readily adapted for serodiagnosis of human pentastomiasis (Jones & Ridley, 1991, Abadi et al., 1996).

Leiperia cincinnalis lives as an adult in the lungs of African crocodiles. The nymphs have been found in the connective tissue enveloping the intestine or in the muscles of various fishes. A nymph of this species was found in the feces of a European woman in Zaire (Fain, 1960, 1961). This patient has probably become infected by eating fish harbouring this larva. This case of parasitism was considered, therefore, to be purely accidental (Fain, 1975).

The last species reported for humans is *Sebekia* sp. A nymph of this unidentified species was recovered from a dermatitic lesion in a Costa Rican woman (Mairena et al., 1989).

Systematic discussion

Our review lists 144 recent species and subspecies of Pentastomida, which complements the 124 species accounted for in Poore (2012a). In part the higher number obtained herein reflects the inclusion of subspecies and doubtful species which have still not been synonymized with other taxa. On the other hand, some species added here were inadvertently overlooked in the nomenclatural review of Poore (2012a). The detailed nomenclatural research invested in the previous review has been used as a baseline for contentious taxonomical issues, even though the paper was only published after our own review was completed and sent out for publication. The review process has served as an opportunity to reconsider many initial disagreements and contradictions in the final text.

Although this review is primarily an overview of the existing taxonomy of the group, we are interested in advancing phylogenetic insights for the clade Pentastomida.

We thus rely and summarize the very few phylogenetic approaches available for the group, including some of the results obtained in an unpublished a thesis work available online (Junker, 2002). The preliminary cladistic results on the Sebekidae presented in this landmark contribution unfortunately have not been published to date. Even though we have not gone so far as to present a complete phylogeny for group, we have been able to interpret some of the data used in traditional pentastomid taxonomy as hypothetical apomorphies. Apomorphic characters represent a phylogenetically informative portion of traditional diagnostic characters, and thus are not only valid, but scientifically preferable, for the diagnoses of taxa. We have thus used apomorphies not only to diagnose the hypothetical clades in the system, but also to present preliminary diuagrams on the tentative phylogenetic relationships existing among the resulting taxa.

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Heymons (1935) listed 218 references. Hill (1948) gathered 388 references, and Self (1969), 955. This list contains 1,465 references for Pentastomida.

Several older references to pentastomids appearing in works of general zoology, general, animal or human parasitology, faunal lists, parasite lists, checklists, many of which appear in Self (1969) and Riley (1986), are not cited below unless explicitly confirmed by us as citing formal taxa of Pentastomida.

It is not uncommon that some papers are press-released or distributed some time after their cover dates, sometimes years later, without clear clues of this in the published articles. Because determining the true availability date of a publication may be crucial for settling priority disputes over names, some authors have strived to give the correct date in their references, but the evidence for this is not always put clearly forward in print, unless a particular priority decision is in focus. We have usually provided the latest publication year when more than one date is listed in the literature, under the assumption that the authors indicating a year other than the printed publication

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