

## REVIEW ARTICLE/ ARTÍCULO DE REVISIÓN

### CHECKLIST OF METAZOAN PARASITES OF FISHES FROM PERU

### LISTA DE VERIFICACIÓN DE LOS METAZOOS PARÁSITOS DE PECES DE PERÚ

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## ABSTRACT

A checklist of all available published accounts of metazoan parasites reported from marine and freshwater fishes in Peru is provided. This list includes records of 612 different species of metazoan parasites (including unidentified parasites) belonging to the following groups: Platyhelminthes (430 total), including Monogenea (175), Cestoda (140), and Trematoda (115); Crustacea (99); Nematoda (49); Acanthocephala (16); Myxozoa (16) and Annelida (2). These parasites were reported from 207 fish species in Peru (174 teleost, 31 elasmobranch and 2 unspecified host species). The records of parasites unidentified to the species level (182 of 612), representing 30% of all species, were also included. Among the fish parasites reported from Peru, 391 were marine, 217 were freshwater and 4 species were found in the both environments, for a total of 1015 parasite-host associations. The fish species that harbored the highest number of parasites were *Merluccius gayi peruanus* Ginsburg, 1954 (32), followed by *Paralichthys peruanus* (Steindachner, 1875) (31), *Scomber japonicus* Houttuyn, 1782 (31), *Sciaena deliciosa* (Tschudi, 1846) (29) and *Stellifer minor* (Tschudi, 1846) (28), all of which are marine fish. The parasites with the highest number of records were larvae of the cestodes *Adenocephalus pacificus* Nybelin, 1931 (19), larvae of the nematode *Anisakis* sp. (18), larvae of *Contracaecum* sp. (17) and larvae and adults of *Lacistorhynchus tenuis* (16), all of which were recovered from marine fish, except for *Contracaecum* sp. larvae, which were recovered from both marine and freshwater environments. The parasite diversity in Peruvian fishes seems to be biased by the sampling host according to researcher interests, but it is also related to the biological features of both the parasites and the hosts.

**Keywords:** Biodiversity – Pacific Ocean – Parasites– South American – Neotropics – Parasites – Taxonomy

## RESUMEN

Se proporciona una lista de verificación de todos los registros válidos publicados de los metazoos parásitos reportados en peces marinos y de agua dulce de Perú. Esta lista incluye los registros de 612 especies diferentes de metazoos parásitos (incluyendo parásitos no identificados) que pertenecen a los siguientes grupos: Platyhelminthes (430 total), incluyendo Monogenea (175), Cestoda (140), y Trematoda (115); Crustacea (99); Nematoda (49); Acanthocephala (16); Myxozoa (14) y Annelida (2). Estos parásitos fueron reportados de 207 especies de peces de Perú (174 teleósteos, 31 elasmobranquios y 2 especies de hospederos no determinados). Los registros de los parásitos no identificados a nivel de especie (182 de 612), representando el 30% de todas las especies, también fueron incluidos. Entre los parásitos de peces reportados de Perú, 391 fueron marinos, 217 de agua dulce y 4 especies se encontraron en ambos ambientes, para un total de 1015 asociaciones parásito-hospedero. Las especies de peces que albergaron el mayor número de parásitos fueron *Merluccius gayi peruanus* Ginsburg, 1954 (32), seguido de *Paralanchurus peruanus* (Steindachner, 1875) (31), *Scomber japonicus* Houttuyn, 1782 (31), *Sciaena deliciosa* (Tschudi, 1846) (29) y *Stellifer minor* (Tschudi, 1846) (28), todos ellos son peces marinos. Los parásitos con el mayor número de registros fueron las larvas del cestodo *Adenocephalus pacificus* Nybelin, 1931 (19), larvas del nematodo *Anisakis* sp. (18), larvas de *Contracaecum* sp. (17) y larvas y adultos de *Lacistorhynchus tenuis* (16), los cuales fueron recuperados de peces marinos, excepto las larvas de *Contracaecum* sp., las cuales fueron recuperados de ambos ambientes. La diversidad de parásitos en peces peruanos parece estar sesgado por el hospedero muestreado de acuerdo a los intereses del investigador, sino que también está relacionado con las características biológicas de los parásitos y de los hospederos.

**Palabras clave:** América del sur – Biodiversidad – Neotrópico – Océano Pacífico – Parásitos/Taxonomía

## INTRODUCTION

There is currently a consensus that parasites represent a large fraction of the Earth's total biodiversity (Poulin, 2014), though several questions remain unanswered regarding the magnitude of parasite diversity and its distribution in the world. Luque & Poulin (2007) noted that studies on the diversity of fish parasites have intensified, but these organisms remain an underestimated component of the total biodiversity in many regions of the globe. They also suggested that regional differences may reflect the true biological patterns, which should be considered when selecting targets for local fish parasitology research.

Peru is an extremely diverse country with several distinct marine and freshwater environments. The Peruvian coast borders the Pacific Ocean and comprises approximately 2500 km, including the Central Peru and Humboldtian marine ecoregions (Spaldin, 2007), with a fish richness estimated at 705 species (Froese & Pouly, 2015).

For freshwater environments, the Peruvian Amazon, which is well known for its high biodiversity, comprises approximately 62% of the country and includes the second-largest portion of the Amazon rainforest after Brazil (IIAP, 2011). Further, Peruvian territory includes two biodiversity hotspots with a high number of teleosts: the Tropical Andes (between 400 and 600 freshwater fishes, nearly

40% of which are endemic) and Tumbes-Chocó-Magdalena (approximately 250 species of fishes) (Anderson & Maldonado-Ocampo, 2011; Conservation International, 2011).

According to Froese & Pouly (2015), there are 914 species of freshwater fishes in Peru, suggesting a high diversity of fish parasites as well. However, the literature on this subject is highly dispersed, and numerous papers have been published in regional or local journals that are not indexed. Few researchers have compiled this information, and all have focused on marine fish hosts (Tantaleán *et al.*, 1982, 1985; Luque, 1991; Luque *et al.*, 1991; Tantaleán & Huiza, 1994). More recently, Luque & Poulin (2007) counted 146 and 485 freshwater and marine parasite-host associations from 49 and 98 freshwater and marine fishes, respectively.

Here, we provide a checklist of metazoan parasites that are associated with both marine and freshwater fishes from Peru, including detailed information on their locality, habitat, site of infection/infestation and life-cycle stage. The information is presented as parasite-host and host-parasite lists. We have attempted to include information from all published reports.

## **MATERIAL AND METHODS**

The database was compiled from an extensive bibliographical review of metazoan parasites reported from fishes in Peruvian waters using two approaches. First, a search was performed through the *Zoological Records*, *Biological Abstracts* and *Helminthological Abstracts*, *Web of Knowledge*, *Google Scholar*, *Aquatic Sciences and Fisheries Abstracts*, *Biological and Agricultural Index Plus* and *Scopus*, using a combination of several key words. Second, monographs and articles published in Spanish

that were not indexed by electronic databases but were known to the authors were also included. Undergraduate theses and scientific meetings do not constitute formal publications and were thus not considered. Records published up to May 2016 are included.

The following parasite taxa were included: Acanthocephala, Annelida (Hirudinea), Crustacea (Malacostraca and Maxillopoda), Myxozoa, Nematoda and Platyhelminthes (Trematoda, Monogenea, and Cestoda).

The checklist follows the classification and systematic arrangement proposed by Ahyong *et al.* (2011) for Branchiura and Isopoda; Amin (2013) for Acanthocephala; Anderson *et al.* (2009) and Gibbons (2010) for Nematoda; Boxshall & Halsey (2004) for Copepoda; Cohen *et al.* (2013) for Monogenea; Davies (1991) for Hirudinea; Gibson *et al.* (2002), Jones *et al.* (2005) and Bray *et al.* (2008) for Trematoda; Khalil *et al.* (1994) for Cestoda; and Lom & Dyková (2006) for Myxozoa.

Parasite species are arranged by phylum, class, order and family and are presented in alphabetical order, followed by information on host/locality records, site of infection/infestation, stage of development, habitat (freshwater/marine) and references (between parentheses, in chronological order).

When the taxonomic status of a parasite species required clarification, the section "Notes" is included with the relevant bibliographic references.

The names of host species follow Froese & Pauly (2015). The species of fishes in the host-parasite list are arranged according to the higher-level classification of Nelson (2006). Parasite names were updated in agreement with the recent literature, but inclusion in the parasite or host lists does not necessarily imply that authors agree with their validity.

## RESULTS

A total of 1015 parasite-host associations were found, including 612 named species (including unidentified ones) of metazoan parasites belonging to the following taxa: Monogenea (175), Cestoda (140), Trematoda (115), Crustacea (99), Nematoda (49), Acanthocephala (16), Myxozoa (16) and Annelida (2). Reports of parasites that were not identified to the species level constituted 182 of the 612 (30%) species included (Table 1).

Three-hundred ninety-one species were marine parasites, 217 were freshwater and 4 species were recorded in the both habitats (Table 2). A total of 207 (113 marine, 94 freshwater) species of fishes from Peru have been reported as hosts of metazoan parasites. Of them, 174 are teleosts, 31 are elasmobranchs and 2 are unspecified host species. The fish species with the highest number of parasites were the marine fishes *Merluccius gayi peruanus* Ginsburg, 1954 (32), followed by *Paralanchurus peruanus* (Steindachner, 1875) (31), *Scomber japonicus* Houttuyn, 1782 (31), *Sciaena deliciosa* (Tschudi, 1846) (29) and *Stellifer minor* (Tschudi, 1846) (28). The freshwater fishes with the most parasite records were *Pseudoplatystoma fasciatum* (Linnaeus, 1766) (11) and *Arapaima gigas* (Schinz, 1822), *Potamotrygon motoro* (Müller & Henle, 1841), *Orestias luteus* Valenciennes, 1846 (each with 9 reports). Parasites with the most reports were the larval stage of the diphyllbothriidean *Adenocephalus pacificus* Nybelin, 1931 (19), larvae of *Anisakis* sp. (18), larvae of *Contracaecum* sp. (17) and adults and larvae of the trypanorhynch cestode *Lacistorhynchus tenuis* (16), all of which are parasitic in marine fishes, except for *Contracaecum* sp., which is parasitic in freshwater and marine fish. The localities with the highest number of records were Lima (285), Loreto (148) and La Libertad (120).

## PARASITE-HOST LIST PHYLUM ACANTHOCEPHALA

Rudolphi, 1802

**Class Eoacanthocephala Van Cleave, 1936**  
**Order Neoechinorhynchida Southwell & MacFie, 1925**

**Family Neoechinorhynchidae (Ward, 1917)**  
***Gorytocephalus plecostomorum* Nickol & Thatcher, 1971**

*Pterygoplichthys multiradiatus*; adult; intestine; freshwater; Loreto (Schmidt & Huggins, 1973a; Tantaleán *et al.*, 2005).

***Neoechinorhynchus* sp.**

*Colossoma macropomum*, *Prochilodus nigricans*; adult; intestine; freshwater; Loreto, Ucayali (Schmidt & Huggins, 1973a; Tantaleán *et al.*, 2005).

***Pandosentis iracundus* Van Cleave, 1920**

*Aequidens* sp., *Geophagus steindachneri*; adult; intestine; freshwater; Ucayali, Loreto (Tantaleán *et al.*, 2005).

**Class Palaeacanthocephala Meyer, 1931**  
**Order Echinorhynchida Southwell & MacFie, 1925**

**Family Cavisomidae Meyer, 1932**  
***Paracavisoma impudica* (Diesing, 1851)**

*Oxydoras niger*; adult; intestine; freshwater; Ucayali (Schmidt & Huggins, 1973b; Tantaleán *et al.*, 2005).

**Family Diplosetidae Tubangui & Masilungan, 1937**  
***Sharpilosentis peruviansis* Lisitsyna, Scholz & Kuchta, 2015**

*Duopalatinus* cf. *peruanus*; *Oxydoras niger*; adult; intestine; freshwater; Loreto (Lisitsyna *et al.*, 2015).

**Family Rhadinorhynchidae Lühe, 1912**  
***Gorgorhynchus* sp.**

*Anisotremus scapularis*, *Hemilutjanus macrophthalmos*; adult; intestine, mesentery; marine; Lima (Tantaleán & Lefevre, 2004; Chero *et al.*, 2014d).

***Rhadinorhynchus plagioscionis* Thatcher, 1980**

*Plagioscion squamosissimus*; adult; intestine; freshwater; Loreto (Iannacone & Luque, 1993b).

***Rhadinorhynchus pristis* (Rudolphi, 1802)**

*Scomber japonicus*; adult; intestine; marine; La Libertad (Cruces *et al.*, 2014).

***Rhadinorhynchus* sp.**

*Stellifer minor*, *Trachurus murphyi*; adult; intestine; marine; Lima, Lambayeque (Oliva *et al.*, 1990; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Oliva & Luque, 1998b; Tantaleán *et al.*, 2005).

***Tegorhynchus* sp.**

*Cynoscion analis*, *Labrisomus philippii*, *Paralonchurus peruanus*, *Sciaena deliciosa*, *Trachurus murphyi*; adult; intestine; marine, Chimbote, La Libertad, Lambayeque, Lima (Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Jara & Ponte, 1995; Oliva & Luque, 1998b; Tantaleán *et al.*, 2005; Iannacone *et al.*, 2010a).

**Order Polymorphida Petrochenko, 1956****Family Polymorphidae Meyer, 1931*****Bolbosoma* sp.**

*Merluccius gayi peruanus*; larvae; visceral surface; marine; Lima (Chero *et al.*, 2014b).

***Corynosoma australe* Johnston, 1937**

*Labrisomus philippii*, *Paralonchurus peruanus*, *Sciaena deliciosa*, *Sebastes capensis*, *Trachurus murphyi*; larvae; abdominal cavity, gills; marine; Lima, Piura (Luque & Oliva, 1993b; Oliva, 1999; Oliva & Luque, 1998b, 2002; González & Poulin, 2005; Tantaleán *et al.*, 2005; González *et al.*, 2006; Iannacone *et al.*, 2011b; Cruces *et al.*, 2015).

***Corynosoma obtuscens* Lincicome, 1943**

*Cilus gilberti*, *Coryphaena hippurus*, *Cynoscion analis*, *Galeichthys peruvianus*, *Isacia conceptionis*, *Labrisomus philippii*, *Merluccius gayi peruanus*, *Odontesthes regia*, *Paralabrax*

*humeralis*, *Paralichthys adspersus*, *Paralonchurus peruanus*, *Scartichthys gigas*, *Sciaena deliciosa*, *Scomber japonicus*, *Stellifer minor*, *Trachurus murphyi*; larvae; liver, mesentery, visceral surface; marine; Ica, La Libertad, Lambayeque, Lima, Piura, Tumbes (López & Tantaleán, 1985; Oliva *et al.*, 1990; Rivera & Sarmiento, 1990a; Tantaleán & Huiza, 1994; Cabrera & Tantaleán, 1995; Jara, 1998; Pérez *et al.*, 1999; Llerena *et al.*, 2001; Tantaleán *et al.*, 2005; Chero *et al.*, 2014ac; Paschoal *et al.*, 2015; Iannacone *et al.*, 2015; Tarmeño *et al.*, 2015; Minaya *et al.*, 2016).

***Corynosoma* sp.**

*Brama japonica*, *Cynoscion analis*, *Odontesthes regia*, *Paralabrax humeralis*, *Paralichthys adspersus*, *Paralonchurus peruanus*, *Prionotus stephanophrys*, *Serirolella violácea*, *Stellifer minor*, *Trachurus murphyi*; larvae; mesentery, visceral surface; marine; Lima (Armas, 1983b; Oliva *et al.*, 1990; Luque *et al.*, 1991; Luque & Oliva, 1993a; Tantaleán & Huiza, 1994; Oliva & Luque, 1998b; Tantaleán *et al.*, 2005; Iannacone & Alvarino, 2013; Paschoal *et al.*, 2015).

***Profilicollis altmani* (Perry, 1942)**

*Anisotremus scapularis*, *Labrisomus philippii*; larvae; gills, intestine; marine; Lima (Luque, 1991; Tantaleán & Huiza, 1994; Tantaleán *et al.*, 2005; Iannacone & Alvarino, 2009b; Chero *et al.*, 2014d; Paschoal *et al.*, 2015; Cruces *et al.*, 2015).

***Polymorphus spindlatus* Amim & Heckmann, 1991**

*Orestias agassizii*, *O. luteus*, *O. mulleri*, *O. olivaceus*, *Orestias* sp., *Oreochromis niloticus*; larvae; body cavity; freshwater; Puno (Amin, 1995; Tantaleán *et al.*, 2005; Amin *et al.*, 2010).

**PHYLUM ANNELIDA Linnaeus, 1758****Class Hirudinea Lamarck, 1894****Order Rhynchobdellida Blanchard, 1893**

**Family Piscicolidae Johnston, 1865****Piscicolidae gen. sp.**

*Cilus gilberti*, *Labrisomus philippii*, *Paralanchurus peruanus*, *Sciaena deliciosa*; adult; gills; marine; Lima (Luque & Oliva, 1993a; Oliva & Luque, 1998b; Iannacone *et al.*, 2011b; Chero *et al.*, 2014c).

***Stibarobdella moorei* (Oka, 1910)**

*Rhinobatos planiceps*; adult; skin; marine; Lima (Iannacone *et al.*, 2011a)

**PHYLUM ARTHROPODA von Siebold, 1848****Class Maxillopoda Dahl, 1956****Order Arguloida Yamaguti, 1963****Family Argulidae Leach, 1819*****Argulus peruvianus* Oliva, Durán & Verano 1980**

*Merluccius peruanus*; adult; eyes, gills, opercule, skin; marine; Lima (Durán & Oliva, 1980; Oliva *et al.*, 1980; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).

***Dolops geayi* (Bouvier, 1897)**

*Cichlasoma amazonarum*; adult; skin; freshwater; Loreto (Lo *et al.*, 2011)

**Order Cyclopoida Burmeister, 1834****Family Bomolochidae Sumpf, 1871*****Acanthocolax peruensis* (Luque & Bruno, 1990)**

*Menticirrhus ophicephalus*, *Paralanchurus peruanus*, *Sciaena deliciosa*, *Stellifer minor*; adult; gills; marine; Lima (Luque & Bruno, 1990a; Luque *et al.*, 1991; Luque & Oliva, 1993a; Luque, 1994a).

***Acantholochus nudiusculus* (Cressey & Cressey, 1980)**

*Scomberomorus sierra*; adult; gills; marine; Northern coastal zone (Cressey & Cressey, 1980; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).

***Bomolochus bellones* Burmeister, 1833**

*Strongylura scapularis*; adult; gills;

marine; Lima (Luque & Farfán, 1990c; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).

***Bomolochus constrictus* (Cressey & Collette, 1970)**

*Ablennes hians*, *Strongylura exilis*, *Tylosurus acus acus*; adult; gills; marine; Piura (Cressey & Collette, 1970; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).

***Bomolochus ensiculus* (Cressey, in Cressey & Collette, 1970)**

*Strongylura exilis*; adult; gills; marine; Lima, Tumbes (Cressey & Collette, 1970; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).

***Bomolochus nitidus* Wilson, 1911**

*Mugil cephalus*; adult; gills; marine; Lima (Iannacone & Alvariano, 2009c).

***Bomolochus* sp.**

*Paralichthys adspersus*, *Peprilus medius*; adult; gills; marine; Lima (Iannacone & Alvariano, 2008; Iannacone *et al.*, 2012a).

***Hamaticolax galeichthyos* (Luque & Bruno, 1990)**

*Galeichthys peruvianus*; adult; gills; marine; Lima (Luque & Bruno, 1990b; Luque *et al.*, 1991; Iannacone & Luque, 1993a; Tantaleán & Huiza, 1994).

***Hamaticolax paralabraxis* (Luque & Bruno, 1990)**

*Paralabrax humeralis*; adult; gills; marine; Lima (Luque & Bruno, 1990b; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).

**Family Chondracanthidae Milne Edwards, 1840*****Acanthochondria sicyasis* (Krøyer, 1863)**

*Labrisomus philippii*, *Scartichthys gigas*, *Sicyases sanguineus*; adult; gills; marine; Lima (Durán & Oliva, 1983; Luque *et al.*, 1991; Farfán *et al.*, 1993; Tantaleán & Huiza, 1994; Iannacone & Alvariano, 2011; Iannacone *et al.*, 2011b; Iannacone *et al.*, 2012b).

***Blias prionoti* Krøyer, 1863**

*Hemanthias peruanus*, *Prionotus*

*punctatus*; adult; gills; marine; Northern coastal zone, Piura (Ho, 1970; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).

***Chondracanthus lepophidii* Ho, 1974**

*Cherublemma emmelas*; adult; gills; marine; Lambayeque, Northern coastal zone (Ho, 1974; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).

***Chondracanthus* sp.**

*Coryphaena hippurus*, *Merluccius gayi peruanus*; adult; gills; marine; La Libertad, Northern coastal zone (Jara & Díaz-Limay, 1995; Vásquez-Ruiz *et al.*, 2012).

***Protochondria longicauda* Ho, 1970**

*Hippoglossina bollmani*; adult; gills; marine; Lambayeque, Northern coastal zone (Ho, 1970; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).

**Family Ergasilidae von Nordmann, 1832**

***Amplexibranchius bryconis* Thatcher & Paredes, 1985**

*Brycon cephalus*; adult; gills; freshwater; Loreto (Thatcher & Paredes, 1985b).

***Ergasilus* sp.**

*Mugil cephalus*; adult; gills; marine; La Libertad (Jara & Díaz-Limay, 1995).

**Family Lernaeidae Cobbold, 1879**

***Lernaea gamitanae* (Thatcher & Paredes, 1985)**

*Colossoma macropomum*; adult; skin; freshwater; Loreto (Thatcher & Paredes, 1985a; Mathews *et al.*, 2011).

***Lernaea* sp.**

*Labrisomus philippii*; adult; gills; marine; Trujillo (Jara & Díaz-Limay, 1995).

**Family Philichthyidae Vogt, 1877**

***Colobomatus goodingi* Cressey & Collette, 1970**

*Tylosurus acus acus*; adult; cephalic channels; marine; Piura (Cressey & Collette, 1970; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).

***Colobomatus quadrifarius* Cressey &**

**Schotte, 1983**

*Anisotremus scapularis*; adult; mandibular canals; marine; Lima (Luque & Farfán, 1990c; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).

**Order Siphonostomatoida Thorell, 1859**

**Family Caligidae Burmeister, 1835**

***Caligodes laciniatus* (Krøyer, 1863)**

*Ablennes hians*, *Tylosurus pacificus*; adult; mouth; marine; Tumbes (Cressey & Collette, 1970; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).

***Caligus bonito* Wilson, 1905**

*Sarda chiliensis*, *Trachurus murphyi*; adult; gills; marine; La Libertad, Lima, Northern coastal zone (Durán, 1980; Durán & Oliva, 1983; Cressey & Cressey, 1980; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Jara & Díaz-Limay, 1995).

***Caligus callaoensis* Durán, 1980**

*Cheilotrema fasciatum*, *Paralonchurus peruanus*, *Sciaena deliciosa*; adult; gills, internal surface of the operculum; marine; La Libertad, Lima (Durán, 1980; Luque *et al.*, 1991; Luque & Oliva, 1993a; Luque, 1996; Oliva & Luque, 1998b; Tantaleán & Huiza, 1994; Jara & Díaz-Limay, 1995; Iannacone *et al.*, 2010a).

***Caligus cheilodactyli* Krøyer, 1863**

*Cheilodactylus variegatus*; adult; gills, skin; marine; Lima (Luque & Farfán, 1990c; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Iannacone *et al.*, 2003).

***Caligus coryphaenae* Streenstrup & Lütken, 1861**

*Coryphaena hippurus*, *Katsuwonus pelamis*; adult; gills; marine; Northern coastal zone (Cressey & Cressey, 1980; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Vásquez-Ruiz *et al.*, 2012).

***Caligus debueni* Stuardo & Fagetti, 1961**

*Merluccius gayi peruanus*; adult; gills; marine; Lima (Durán, 1980; Durán & Oliva, 1980; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Chero *et al.*, 2014b).

***Caligus omissus* Cressey & Cressey, 1980**

*Scomberomorus sierra*; adult; gills; marine; Northern coastal zone (Cressey & Cressey, 1980; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).

***Caligus pelamydis* Krøyer, 1863**

*Scomber japonicus*; adult; unspecified site of infection; marine; Lima (Oliva *et al.*, 2008).

***Caligus productus* Dana, 1852**

*Katsuwonus pelamis*; adult; gills; marine; Lima, Northern coastal zone (Cressey & Cressey, 1980; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).

***Caligus quadratus* Shiino, 1954**

*Paralabrax humeralis*, *Stellifer minor*, *Trachinotus paitensis*; adult; gills, mouth; marine; La Libertad, Lima (Luque & Farfán, 1990c, 1991a; Oliva *et al.*, 1990; Luque *et al.*, 1991; Luque, 1996; Oliva & Luque, 1998b; Jara & Díaz-Limay, 1995).

***Caligus teres* Wilson, 1905**

*Merluccius gayi peruanus*; adult; gills; marine; Lima (Durán, 1980; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).

***Caligus* sp.**

*Coryphaena hippurus*, *Isacia conceptionis*, *Peprilus medius*, *Sarda chiliensis*, *Tylosurus pacificus*; adult; gills; marine; Ica, La Libertad, Lima, Piura (Chirinos de Vildoso, 1955; Cressey & Collette, 1970; Tantaleán & Huiza, 1994; Iannacone & Alvariano, 2008; Jara & Díaz-Limay, 1995).

***Gloiopotes huttoni* (Thomson 1890)**

*Makaira* sp., *Xiphias gladius*; adult; skin; marine; Piura (Shiino, 1963; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).

***Gloiopotes watsoni* Kirtisinghe, 1934**

*Makaira nigricans*; adult; unspecified site of infection; marine; unspecified locality (Cressey, 1967a).

***Lepeophtheirus edwardsi* Wilson, 1905**

*Paralichthys adspersus*; adult; skin; marine; Lima (Luque & Farfán, 1990c; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).

***Lepeophtheirus marginatus* Bere, 1936**

*Galeichthys* sp.; adult; skin; marine; Piura (Shiino & Izawa, 1966; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).

***Lepeophtheirus* sp.**

*Merluccius gayi peruanus*; adult; gills; marine; Lima (Durán & Oliva, 1980; Tantaleán & Huiza, 1994).

**Family Dichelesthiidae Milne Edwards, 1840*****Anthosoma crassum* (Abildgaard, 1794)**

*Isurus oxyrinchus*, *Prionace glauca*; adult; mouth; marine; 08°47'-33°24'S, 77°02'-89°31'W (Cressey, 1968; Tantaleán & Huiza, 1994).

**Family Eudactylinidae Wilson, 1992*****Eudactylina myliobatidos* Luque & Farfán, 1991**

*Myliobatis chilensis*; adult; gills; marine; Lima (Luque & Farfán, 1991c).

***Eudactylina peruensis* Luque & Farfán, 1991**

*Rhinobatos planiceps*; adult; gills; marine; Lima (Luque & Farfán, 1991c).

***Nemesis lamna lamna* Risso, 1826**

*Isurus oxyrinchus*; adult; gills; marine; 10°28'-33°24'S, 77°02'-89°31'W (Cressey, 1968; Tantaleán & Huiza, 1994).

**Family Hatschekiidae Kabata, 1979*****Hatschekia amphiprocesa* Castro-Romero & Baeza-Kuroki, 1986**

*Paralabrax humeralis*; adult; gills; marine; Lima (Luque & Farfán, 1990c; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).

***Hatschekia conifera* Yamaguti, 1939**

*Brama japonica*; adult; gills; marine; Lima (Iannacone & Alvariano, 2013).

**Family Lernaepodidae Milne-Edwards, 1840*****Brachiella* sp.**

*Merluccius gayi peruanus*; adult; gills;



- marine; Lima (Durán & Oliva, 1980).
- Clavella applicata* Castro-Romero & Baeza-Kuroki, 1985**  
*Anisotremus scapularis*; adult; gills; marine; Lima (Luque & Farfán 1990c; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Iannacone & Alvariano, 2009b; Paschoal *et al.*, 2015).
- Clavella simplex* Castro-Romero & Baeza-Kuroki, 1985**  
*Isacia conceptionis*; adult; caudal peduncle, fins; marine; Lima (Luque & Farfán, 1990c; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Iannacone *et al.*, 2015).
- Clavella* sp.**  
*Stellifer minor*; adult; gills; marine; Lima (Tantaleán & Huiza, 1994).
- Clavellisa scombri* (Kurz, 1877)**  
*Scomber japonicus*; adult; gills; marine; La Libertad, Lima (Cressey & Cressey, 1980; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Oliva *et al.*, 2008; Cruces *et al.*, 2014).
- Clavellopsis* sp.**  
*Paralanchurus peruanus*; adult; gills; marine; Lima (Luque & Oliva, 1993a; Luque, 1996; Oliva & Luque, 1998b).
- Clavellothis dilatata* (Krøyer, 1863)**  
*Cheilodactylus variegatus*, *Menticirrhus ophicephalus*, *Stellifer minor*; adult; gills; marine; La Libertad, Lima (Luque & Farfán, 1990b; Oliva *et al.*, 1990; Luque *et al.*, 1991; Luque, 1994a, 1996; Tantaleán & Huiza, 1994; Oliva & Luque, 1998b; Jara & Díaz-Limay, 1995; Iannacone *et al.*, 2003; Iannacone, 2004).
- Clavellothis* sp.**  
*Sciaena deliciosa*; adult; gills, palate; marine; Lima (Tantaleán & Huiza, 1994).
- Naobranchia lizae* (Krøyer, 1863)**  
*Mugil cephalus*; adult; gills; marine; Lima (Tantaleán & Huiza, 1994).
- Ommatokoita elongata* (Grant, 1827)**  
*Rhinobatos planiceps*; adult; eyes, skin; marine; Lima (Iannacone *et al.*, 2011a).
- Parabrachiella anisotremi* Castro-Romero & Baeza-Kuroki, 1989**  
*Anisotremus scapularis*; adult; marine; Lima (Iannacone & Alvariano, 2009b; Paschoal *et al.*, 2015).
- Parabrachiella chevreuxii* (Van Beneden, 1891)**  
*Paralanchurus peruanus*; adult; gills; marine; Lima (Luque & Farfán, 1990b; Luque *et al.*, 1991; Luque & Oliva, 1993a; Tantaleán & Huiza, 1994; Luque, 1996).
- Parabrachiella exilis* (Shiino, 1956)**  
*Mugil cephalus*; adult; gills; marine; Lima (Luque & Farfán, 1990c).
- Parabrachiella fasciata* (Castro-Romero & Baeza-Kuroki, 1987)**  
*Cheilotrema fasciatum*; adult; gills; marine; Lima (Luque & Farfán, 1990b; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Luque, 1996).
- Parabrachiella insidiosa* (Heller, 1865)**  
*Merluccius gayi peruanus*; adult; gills; marine; Lima (Durán & Oliva, 1980, 1983; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Chero *et al.*, 2014b).
- Parabrachiella kabatai* (Luque & Farfán, 1991).**  
*Isacia conceptionis*; adult; fins; marine; Lima (Luque & Farfán, 1991b; Tantaleán & Huiza, 1994).
- Parabrachiella menticirrho* (Luque & Farfán, 1990)**  
*Menticirrhus ophicephalus*; adult; gills; marine; Lima (Luque & Farfán, 1990b; Luque, 1994a; 1996; Tantaleán & Huiza, 1994; Oliva & Luque, 1998b).
- Parabrachiella oralis* (Castro-Romero & Baeza-Kuroki, 1987)**  
*Sciaena deliciosa*; adult; gills; marine; Lima (Luque & Farfán, 1990b; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Luque, 1996; Oliva & Luque, 1998b).
- Parabrachiella paralichthys* (Castro-Romero & Baeza-Kuroki, 1986)**  
*Paralichthys adspersus*; adult; gills; marine; Lima (Luque & Farfán, 1990c; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).

***Parabrachiella* sp.**

*Cilus gilberti*; adult; gills; marine; Lima (Chero et al., 2014c).

***Pseudocharopinoides myliobatides* Castro-Romero & Baeza-Kuroki, 1987**

*Myliobatis chilensis*; adult; gills; marine; Lima (Luque & Farfán, 1991c).

***Pseudocharopinus narcinae* (Pillai, 1962)**

*Myliobatis chilensis*; adult; gills; marine; Lima (Luque & Farfán, 1991c).

**Family Lernanthropidae Kabata, 1979*****Lernanthropinus trachuri* (Brian, 1903)**

*Serirolella violacea*, *Trachurus murphyi*; adult; gills; marine; La Libertad, Lima (Durán & Oliva, 1983; Luque et al., 1989, 1991; Tantaleán & Huiza, 1994; Jara & Díaz-Limay, 1995; Iannacone, 2003).

***Lernanthropus antofagastensis* Castro-Romero & Baeza-Kuroki, 1985**

*Anisotremus scapularis*; adult; gills; marine; La Libertad, Lima (Luque et al., 1989; Luque et al., 1991; Tantaleán & Huiza, 1994; Jara & Díaz-Limay, 1995; Iannacone & Alvarino, 2009b; Paschoal et al., 2015).

***Lernanthropus huamani* Luque & Farfán, 1990**

*Cynoscion analis*, *Menticirrhus ophicephalus*, *Sciaena deliciosa*; adult; gills; marine; Lima, Tumbes (Luque & Farfán, 1990a; Luque et al., 1991; Tantaleán & Huiza, 1994; Luque, 1996; Oliva & Luque, 1998b; Iannacone et al., 2010a; Minaya et al., 2016).

***Lernanthropus pacificus* Oliva & Durán, 1982**

*Cilus gilberti*, *Mugil cephalus*, *Sciaena deliciosa*; adult; gills; marine; La Libertad, Lima, Northern Coastal zone (Oliva & Durán, 1982; Durán & Oliva, 1983; Luque et al., 1991; Tantaleán & Huiza, 1994; Jara & Díaz-Limay, 1995; Vásquez-Ruiz et al., 2012; Chero et al., 2014c).

***Lernanthropus paralonchuri* Luque, Bruno & Covarrubia, 1989**

*Cynoscion analis*, *Paralonchurus peruanus*; adult; gills; marine; Lima (Luque et al., 1989, 1991; Luque & Oliva, 1993a; Luque, 1996; Oliva & Luque, 1998b; Iannacone et al., 2001; Iannacone, 2005).

***Lernanthropus tylosuri* Richiardi, 1880**

*Ablennes hians*, *Strongylura exilis*; adult; gills; marine; Piura (Cressey & Collette, 1970; Luque et al., 1991; Tantaleán & Huiza, 1994).

***Lernanthropus* sp.**

*Cynoscion analis*, *Sciaena deliciosa*, *Trachinotus paitensis*; adult; gills; marine; La Libertad, Lima (Tantaleán & Huiza, 1994; Jara & Díaz-Limay, 1995).

**Family Pandaridae Milne Edwards, 1840*****Achtheinus oblongus* Wilson, 1908**

*Prionace glauca*; adult; skin; marine; Lima (Luque & Farfán, 1991c).

***Dinemoura latifolia* (Steenstrup & Lütken, 1861)**

*Isurus oxyrinchus*; adult; skin; marine; 12°50'-33°24'S, 77°02'-83°31'W (Cressey, 1968; Tantaleán & Huiza, 1994).

***Dinemoura producta* (Muller, 1785)**

*Isurus oxyrinchus*; adult; fins; marine; 08°47'-33°24'S, 77°08'-83°38'W (Cressey, 1968; Tantaleán & Huiza, 1994).

***Echthrogaleus denticulatus* Smith, 1873**

*Isurus oxyrinchus*; adult; skin; marine; 08°47'-33°24'S, 79°00'-83°38'W (Cressey, 1968; Tantaleán & Huiza, 1994).

***Echthrogaleus pellucidus* Shiino, 1963**

*Alopias* sp.; adult; skin; marine; 08°47'-33°24'S, 77°02'-89°31'W (Cressey, 1967b).

***Gangliopus pyriformis* Gerstaecker, 1854**

*Isurus oxyrinchus*, *Prionace glauca*; adult; skin; marine; 32°02'S, 77°02'W (Cressey, 1968).

***Pandarus katoii* Cressey, 1967**

*Isurus oxyrinchus*; adult; skin; marine;

08°47'-12°50'S, 81°20'-83°38'W  
(Cressey, 1968; Tantaleán & Huiza, 1994).

***Pandarus satyrus* Dana, 1849**

*Isurus oxyrinchus*; adult; skin; marine; 08°47'-33°24', 79°00'-83°33'S (Cressey, 1968; Tantaleán & Huiza, 1994).

***Pandarus smithii* Rathbun, 1886**

Unspecified host (Chondrichthyes); adult; skin; marine; Tumbes (Shiino & Izawa, 1966).

***Perissopus dentatus* Steenstrup & Lütken, 1861**

*Galeorhinus galeus*; adult; skin; marine; unspecified locality (Wilson, 1911).

***Phyllothyreus cornutus* (Milne Edwards, 1840)**

*Isurus oxyrinchus*; adult; skin; marine; 10°28'-33°24'S, 79°00'-81°31'W (Cressey, 1968; Tantaleán & Huiza, 1994).

**Family Pennellidae Burmeister, 1835**

***Metapeniculus anofagastensis* Castro-Romero & Baeza-Kuroki, 1985**

*Anisotremus scapularis*; adult; fins; marine; Lima (Luque *et al.*, 1989, 1991; Luque & Fáfán, 1990c; Tantaleán & Huiza, 1994; Iannacone & Alvariano, 2009b; Paschoal *et al.*, 2015).

**Family Pseudocycnidae Wilson, 1922**

***Cybicola buccata* (Wilson, 1922)**

*Scomberomorus sierra*; adult; gills; marine; Tumbes (Cressey & Cressey, 1980; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).

***Pseudocycnus appendiculatus* Heller, 1865**

*Thunnus albacares*; adult; gills; marine; Tumbes (Cressey & Cressey, 1980; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).

**Family Sphyriidae Wilson, 1909**

***Lophoura unilobulata* Castro & Gonzalez, 2009**

*Nezumia stelgidolepis*; adult; near caudal fin; marine; Lambayeque (Gomez *et al.*,

2010).

**Family Trebiidae Wilson, 1905**

***Trebius latifurcatus* Wilson, 1921**

*Myliobatis chilensis*; adult; gills; marine; Lima (Luque & Farfán, 1991b).

**Class Malacostraca Latreille, 1802**

**Order Isopoda Latreille, 1817**

**Family Cymothoidae Leach, 1814**

***Anilocra huacho* Rokicki, 1984**

*Auxis thazard thazard*, *Cubiceps caeruleus*; adult; skin; marine; Lima (Thatcher, 2002).

***Anilocra laevis* Miers, 1877**

Unspecified host; adult; unspecified site of infection; marine; unspecified locality (Williams & Williams, 1981).

***Asotana formosa* Schiödte & Meinert, 1881**

Unspecified host; adult; mouth; freshwater; Amazon River Basin (Schiödte & Meinert, 1881).

***Ceratothoa gaudichaudii* (Milne Edwards, 1840)**

*Cynoscion analis*, *Mustelus* sp., *Peprilus medius*, *Sarda chiliensis*, *Scartichthys gigas*, Sciaenidae gen sp., *Scomber japonicus*, *Stromateus stellatus*, *Trachurus murphyi*; adult; gills, mouth; marine; Arequipa, La Libertad, Lima (Chirinos De Vildoso, 1955; Del Solar *et al.*, 1970; Wrzesinski, 1982; Tantaleán & Huiza, 1994; Iannacone *et al.*, 2001, Oliva *et al.*, 2008; Iannacone & Alvariano, 2008; Iannacone *et al.*, 2010; Iannacone *et al.*, 2012b, Cruces *et al.*, 2014).

***Ceratothoa* sp.**

*Menticirrhus ophicephalus*, *Paralanchurus peruanus*, *Scomber japonicus*; adult; gills; marine; Lima (Luque & Oliva, 1993a; Luque, 1994a; Oliva & Luque, 1998b; Oliva *et al.*, 2008).

***Cymothoa oestrum* (Linnaeus, 1758)**

Unspecified host; adult; mouth; marine; unspecified locality (Del Solar *et al.*, 1970; Tantaleán & Huiza, 1994).

**Cymothoa sp.**

*Anisotremus scapularis*; adult; unspecified site of infection; marine; Lima (Iannacone & Alvaríño, 2009b; Paschoal *et al.*, 2015).

**Cymothoidae gen. sp.**

*Stellifer minor*; adult; mouth; marine; Lima (Oliva *et al.*, 1990; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Oliva & Luque, 1998b).

**Family Aegidae White, 1850****Rocinela sp.**

*Scomber japonicus*; adult; unspecified site of infection; marine; Lima (Oliva *et al.*, 2008).

**PHYLUM MYXOZOA Grassé, 1970****Class Myxosporea Bütschli, 1881****Myxosporea fam. gen. sp.**

*Crenicichla anthurus*; tegument; freshwater; Amazon River basin (Aguinaga *et al.*, 2015).

**Order Bivalvulida Shulman, 1959****Family Ceratomyxidae Doflein, 1899*****Ceratomyxa limensis* Verano, Llican & Terán, 1998**

*Merluccius gayi peruanus*; gallbladder; marine; Lima, Piura (Verano *et al.*, 1998).

***Ceratomyxa* sp.**

*Menticirrhus ophicephalus*; gallbladder; marine; Lima (González & Tam, 1993).

**Family Myxidiidae Thélohan, 1892*****Zschokkella* sp.**

*Carassius auratus*; vesícula biliar; freshwater; Lima (González-Fernández, 2012a).

**Family Myxobolidae Thélohan, 1892*****Henneguya* sp.**

*Paralonchurus peruanus*; mesentery; marine; Lima (Tantaleán & Huiza, 1994).

***Myxobolus exiguus* Thélohan, 1895**

*Mugil cephalus*; gills, liver, spleen, intestine, muscles, mesentery, cartilage, gonads; marine; Ancash, Lima (Luque *et al.*, 1991; Tantaleán & Huiza, 1994).

***Myxobolus* sp.**

*Piaractus brachypomus*; skin body, fins; freshwater; Amazon River basin (Vásquez, 2014).

**Myxobolidae gen. sp.**

*Colossoma macropomum*; gills, fins; freshwater; Loreto (Bences *et al.*, 2013).

**Myxosporea gen. sp.**

*Labrisomus philippii*, *Merluccius gayi peruanus*; gills, liver, spleen, intestine, muscles, mesentery, cartilage, gonads; marine; La Libertad, Lima, Piura (Okada *et al.*, 1981; Iannacone *et al.*, 2011b).

***Thelohanellus* sp.**

*Carassius auratus*; gills; freshwater; Lima (González-Fernández, 2012a).

**Order Multivalvulida Shulman, 1959****Family Kudoidae Meglitsch, 1960*****Kudoa caudata* Kovaleva & Gaevskaya, 1983**

*Scomber japonicus*; muscles; marine; Southeastern Pacific Ocean (Kovaleva & Gaevskaya, 1983; Eiras *et al.*, 2014).

***Kudoa estela* Verano, 1987**

*Prionotus stephanophrys*; muscles; marine; Lima (Tantaleán & Huiza, 1994).

**Note:** This species appeared for the first time in an unpublished doctoral dissertation (Verano, 1987), that nomenclaturally does not constitute valid publication, so the name only became available with publication at work of Tantaleán & Huiza (1994).

***Kudoa peruviana* Mateo, 1972**

*Merluccius gayi peruanus*; muscles; marine; Ancash, La Libertad, Lima, Piura (Durán & Oliva, 1980; Luque *et al.*, 1991; Jara & Escalante, 1993; Tantaleán & Huiza, 1994; Oliva & Ballón, 2002; Eiras *et al.*, 2014; Chero *et al.*, 2015a).

***Kudoa sarmientae* Verano, 1987**

*Odontesthes regia*; muscles; marine; Lima (Tantaleán & Huiza, 1994).  
**Note:** This species appeared for the first time in an unpublished doctoral dissertation (Verano 1987), that nomenclaturally does not constitute valid publication, so the name only became available with publication at work of Tantaleán & Huiza (1994).

***Kudoa sciaenae* Terán, Llicán & Luque, 1990**

*Cheilotrema fasciatum*, *Paralonchurus peruanus*, *Sciaena deliciosa*, *Stellifer minor*; muscles; marine; Lima (Terán *et al.*, 1990; Luque *et al.*, 1991; Oliva *et al.*, 1992; Tantaleán & Huiza, 1994; Eiras *et al.*, 2014).

***Kudoa* sp.**

*Odontesthes regia*; muscles; marine; Northern coastal zone (Escalante *et al.*, 1982c; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).

**PHYLUM NEMATODA Rudolphi, 1808****Class Adenophorea Linstow, 1905****Order Enoplida Filipjev, 1929****Family Capillariidae Railliet, 1915*****Capillaria* sp.**

*Brycon cephalus*, *Poecilia reticulata*; adult; intestine; freshwater; Ucayali (Tantaleán *et al.*, 1985a; Sarmiento *et al.*, 1999).

**Class Secernentea Linstow, 1905****Order Ascaridida Skrjabin & Shulz, 1940****Family Anisakidae (Railliet & Henry, 1912)*****Acanthocheilus bicuspis* (Wedl, 1855)**

*Mustelus dorsalis*, *M. mento*, *Triakis maculata*; adult; stomach; marine; La Libertad, Lima, Piura (Tantaleán, 1991; Tantaleán & Huiza, 1994; Sarmiento *et al.*, 1999).

***Anisakis physeteris* (Baylis, 1923)**

*Coryphaena hippurus*, *Sarda chiliensis*, *Scomber japonicus*, *Trachurus murphyi*; larvae; mesentery; marine; Lima (Pérez *et al.*, 1999; Sarmiento *et al.*, 1999; Llerena *et al.*, 2001; Cabrera & Trillo-Altamirano, 2004).

***Anisakis simplex* (Rudolphi, 1809)**

*Merluccius gayi peruanus*, *Scomber japonicus*, *Trachurus murphyi*; larvae; liver, mesentery, visceral surface; marine; La Libertad, Lima (Pérez *et al.*, 1999; Sarmiento *et al.*, 1999; Llerena *et al.*, 2001; Oliva & Ballón, 2002; Chero *et al.*, 2014b).

***Anisakis* sp.**

*Cilus gilberti*, *Coryphaena hippurus*, *Cynoscion analis*, *Galeichthys peruvianus*, *Merluccius gayi peruanus*, *Mustelus dorsalis*, *Paralichthys adspersus*, *Paralonchurus peruanus*, *Peprilus snyderi*, *Prionace glauca*, *Sardinops sagax*, *Sciaena deliciosa*, *Sciaena wieneri*, *Scomber japonicus*, *Scorpaena russula*, *Seriolaella violacea*, *Stellifer minor*; *Trachurus murphyi*; larvae; liver, mesentery, stomach, viscera, visceral surface; marine; Ica, La Libertad, Lambayeque, Lima, Northern Coastal zone (Tantaleán, 1972; Tantaleán & Huiza, 1994; Durán & Oliva, 1980; Melendez & Vasquez, 1981; Luque *et al.*, 1991; Cabrera, 1994; Jara, 1998; Sarmiento *et al.*, 1999; Llerena *et al.*, 2001; Oliva *et al.*, 2008; Vásquez-Ruiz *et al.*, 2012; Chero *et al.*, 2014a; Ñacari & Sánchez, 2014).

***Contracaecum multipapillatum* (Drasche, 1882)**

*Mugil cephalus*; larvae; mesentery; marine; Lima, Northern Coastal zone (Iannacone & Alvarino, 2009c; Vásquez-Ruiz *et al.*, 2012).

***Contracaecum* sp.**

*Aequidens rivulatus*; *Astronotus ocellatus*; *Brama japonica*, *Brycon atrocaudatus*, *Coryphaena hippurus*, *Ethmidium maculatum*, *Merluccius gayi*

- peruanus*, *Mugil cephalus*, *Mugil curema*, *Oreochromis niloticus*, *Orestias albus*, *O. luteus*, *Paralichthys adspersus*, *Sardinops sagax*, *Scomber japonicus*, *Trachurus murphyi*, *Trichomycterus dispar*; larvae; kidney, mesentery, muscles, visceral surface; freshwater, marine; Ancash, Ica, La Libertad, Lambayeque, Lima, Loreto, Piura, Puno (Armas, 1979; López & Tantaleán, 1985; Tantaleán *et al.*, 1985a; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Pérez *et al.*, 1999; Sarmiento *et al.*, 1999; Iannacone *et al.*, 2012a; Iannacone & Alvarino, 2013; Chero *et al.*, 2014b; Cruces *et al.*, 2014; Chiclla-Salazar & Tantas-García, 2015; Serrano-Martínez *et al.*, 2015b).
- Goezia spinulosa* (Diesing, 1839)**  
*Arapaima gigas*; adult; intestine; freshwater; Loreto (Tantaleán *et al.*, 1985a; Sarmiento *et al.*, 1999).
- Hysterothylacium aduncum* (Rudolphi, 1802)**  
*Coryphaena hippurus*, *Sarda chiliensis*; larvae; mesentery; marine; Lima (Pérez *et al.*, 1999; Sarmiento *et al.*, 1999).
- Hysterothylacium pelagicum* Deardorff & Overstreet, 1982**  
*Coryphaena hippurus*; adult; caecum, intestine, stomach; marine; Lima (Gomez-Puerta, 2014).
- Hysterothylacium* sp.**  
*Coryphaena hippurus*, *Paralichthys adspersus*, *Peprilus snyderi*, *Stromateus stellatus*; larvae; intestine, stomach; marine; Lima, Northern Coastal zone (Sarmiento *et al.*, 1999; Iannacone *et al.*, 2010, 2012a; Vásquez-Ruiz *et al.*, 2012; Ñacari & Sánchez, 2014).
- Pseudoterranova decipiens* (Krabbe, 1878)**  
*Scomber japonicus*, *Trachurus murphyi*; larvae; muscles; marine; Lambayeque, Lima (Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Sarmiento *et al.*, 1999; Cabrera & Trillo-Altamirano, 2004).
- Raphidascaroides* sp.**  
*Oxydoras niger*; larvae; mesentery; freshwater; Ucayali (Tantaleán *et al.*, 1985a; Sarmiento *et al.*, 1999).
- Raphidascaris* sp.**  
*Cilus gilberti*; adult; intestine; marine; Lima (Chero *et al.*, 2014c).
- Family Cosmocercidae Railliet, 1916**
- Perunema escomeli* Mateo, 1970**  
*Odontesthes bonariensis*; adult; intestine; freshwater; Puno (Mateo, 1970).  
**Note:** This genus was considered as genus inquirendum by Moravec (1998).
- Family Kathlaniidae (Lane, 1914)**
- Falcaustra pumacahuai* Ibañez & Córdova, 1976**  
*Orestias luteus*; adult; intestine; freshwater; Puno (Ibañez & Córdova, 1976; Sarmiento *et al.*, 1999).  
**Note:** This species was considered as *species inquirendum* by Moravec (1998).
- Falcaustra tiahuanacuensis* Ibañez & Córdova, 1976**  
*Orestias luteus*; adult; intestine; freshwater; Puno (Ibañez & Córdova, 1976; Sarmiento *et al.*, 1999).  
**Note:** This species was considered as *species inquirendum* by Moravec (1998).
- Family Cucullanidae Cobbold, 1864**
- Cucullanus (Cucullanus) grandistomis* (Ferraz & Thatcher, 1988)**  
*Oxydoras niger*; adult; intestine; freshwater; Loreto (Iannacone & Luque, 1993b).
- Dichelyne (Cucullanellus) amaruincai* (Freitas, Vicente & Ibañez, 1969)**  
*Paralanchurus peruanus*, *Sciaena deliciosa*; adult; intestine; marine; La Libertad, Lima, Piura (Freitas *et al.*, 1969; Luque *et al.*, 1991; Luque & Oliva, 1993a; Tantaleán & Huiza, 1994; Oliva & Luque, 1998b; Sarmiento *et al.*, 1999; Iannacone *et al.*, 2010a, b; Chero *et al.*, 2014a).
- Dichelyne (Cucullanellus) elongatus* (Tornquist, 1931)**  
*Cilus gilberti*; adult; intestine; marine;

Lima (Chero *et al.*, 2014c).

***Dichelyne (Cucullanellus) sp.***

*Paralabrax humeralis*; adult; intestine; marine; Lima, Piura (Armas, 1983a; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Iannacone & Alvarino, 2009).

**Order Oxyurida Chabaud, 1974**

**Family Pharyngodonidae Travassos, 1919**

***Cosmoxynemoides aguirrei* Travassos, 1949**

*Geophagus steindachneri*; adult; intestine; freshwater; Loreto (Tantaleán *et al.*, 1985a; Sarmiento *et al.*, 1999).

***Ichthyouris ro* Inglis, 1962**

*Geophagus steindachneri*; adult; intestine; freshwater; Loreto (Tantaleán *et al.*, 1985a).

**Order Spirurida Chitwood, 1933**

**Family Camallanidae Railliet & Henry, 1915**

***Camallanus (Camallanus) acaudatus* Ferraz & Thatcher, 1990**

*Osteoglossum bicirrhosum*; adult; stomach an intestine; freshwater; Amazon River Basin (Vásquez *et al.*, 2007).

***Camallanus* sp.**

*Cheilotrema fasciatum*; adult; intestine; marine; Lima (Oliva & Luque, 1998b).

***Procamallanus (Spirocamallanus) hilarii* Vaz & Pereira, 1934**

*Trichomycterus piurae*; adult; intestine; freshwater; Cajamarca, Lambayeque (Freitas & Ibañez, 1970; Rodrigues *et al.*, 1991; Sarmiento *et al.*, 1999; Moravec, 1998).

***Procamallanus (Spirocamallanus) chimusensis* (Freitas & Ibañez, 1968)**

*Trichomycterus dispar*, *T. piurae*; adult; intestine; freshwater; Cajamarca, Lambayeque (Freitas & Ibañez, 1968; Tantaleán *et al.*, 1985a; Sarmiento *et al.*, 1999).

***Procamallanus (Spirocamallanus) inopinatus* Travassos, Artigas &**

**Pereira, 1928**

*Triportheus angulatus*; adult; intestine; freshwater; Ucayali (Iannacone, 2000).

***Procamallanus (Spirocamallanus) pereirai* Annereaux, 1946**

*Stellifer minor*; adult; intestine; marine; Lima (Iannacone, 2004).

***Procamallanus (Spirocamallanus) rarus* Travassos, Artigas & Pereira, 1928**

*Pimelodus maculatus*; adult; intestine; freshwater; Huánuco (Tantaleán *et al.*, 1983; Sarmiento *et al.*, 1999).

***Procamallanus (Spirocamallanus) sp.***

*Aequidens rivulatus*, *Bryconamericus peruanus*, *Cynoscion analis*, *Lebiasina bimaculata*, *Polydactylus approximans*, *Stellifer minor*; adult; gill, intestine; freshwater, marine; Ica, Lima, Lambayeque, Tumbes (Tantaleán *et al.*, 1985a, b; Oliva *et al.*, 1990; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Oliva & Luque, 1998b; Minaya *et al.*, 2016).

**Family Acuariidae Railliet, Henry & Sisoff, 1912**

***Rusguniella* sp.**

*Peprilus snyderi*; larvae; intestine; marine; Lima (Ñacari & Sánchez, 2014).

**Family Philometridae Baylis & Daubney, 1926**

***Alinema amazonicum* (Travassos, 1960)**

*Brachyplatystoma juruense*, *Calophysus macropterus*, *Perrunichthys perruno*; adult; mesentery, body cavity; freshwater; Loreto (Moravec *et al.*, 2006a, 2006b).

***Nilonema senticosum* (Baylis, 1927)**

*Arapaima gigas*; adult; Intestine, swim-bladder; freshwater; Loreto (Tantaleán *et al.*, 1985a; Moravec *et al.*, 2006b; Mathews *et al.*, 2013a; Mathews *et al.*, 2014b; Serrano-Martínez *et al.*, 2015).

***Philometra neptomeni* Mateo, 1972**

*Serirolella violacea*; adult; gonads; marine; Lima (Mateo, 1982; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Moravec *et al.*, 2011).

***Philometra* sp.**

*Anisotremus scapularis*, *Paralabrax humeralis*, *Paralichthys adspersus*; adult; gonads; marine; Arequipa, Lima (Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Sarmiento *et al.*, 1999; Iannacone & Alvarino, 2009a; Chero *et al.*, 2014d).

**Philometridae gen sp.**

*Cilus gilberti*; adult; intestine; marine; Lima (Chero *et al.*, 2014c).

**Family Gnathostomatidae Railliet, 1895*****Echinocephalus striatus* Monticelli 1889**

*Scyllium* sp.; adult; intestine; marine; unspecified locality (Yamaguti, 1961).

***Echinocephalus* sp.**

*Mustelus mento*; adult; stomach; marine; Lima (Tantaleán *et al.*, 1983; Tantaleán & Huiza, 1994; Sarmiento *et al.*, 1999).

**Family Cystidicolidae Skrjabin, 1946*****Ascarophis Sebastodis* Olsen, 1952**

*Sebastes capensis*; adult; intestine; marine; Lima (González & Poulin, 2005)

***Ascarophis* sp.**

*Galeichthys peruvianus*; *Menticirrhus ophicephalus*; adult; intestine; marine; Lima (Luque, 1994a; Tantaleán & Huiza, 1994; Oliva & Luque, 1998b; Sarmiento *et al.*, 1999).

**Family Guyanemidae Petter, 1974*****Pseudodelphis* sp.**

*Scartichthys gigas*; adult; pericardial cavity; marine; Lima (Tarmeño *et al.*, 2015)

**Family Hedruridae Railliet, 1916*****Hedruris basilichtensis* Mateo, 1971**

*Odontesthes bonariensis*, *Orestias albus*, *O. luteus*; adult; stomach; freshwater; Puno (Mateo, 1971, Sarmiento *et al.*, 1999).

***Hedruris orestiae* Moniez, 1889**

*Orestias luteus*, *O. mulleri*; adult; stomach; freshwater; Puno (Ibañez & Córdova, 1976, Sarmiento *et al.*, 1999).

**Family Physalopteridae Railliet, 1893*****Proleptus carvajali* Fernandez & Villalba, 1985**

*Anisotremus scapularis*, *Cilus gilberti*, *Isacia conceptionis*, *Labrisomus philippii*, *Rhinobatos planiceps*; adult, larvae; general cavidad, gills, intestine, stomach, valve spiral; marine, Lima (Iannacone *et al.*, 2011a; Chero *et al.*, 2014c, d; Iannacone *et al.*, 2015; Cruces *et al.*, 2015).

***Proleptus obtusus* Dujardin, 1845**

*Mustelus mento*, *Rhinobatos planiceps*, *Triakis maculata*; adult; intestine, stomach; marine; La Libertad, Lima (Tantaleán & Rodriguez, 1987; Tantaleán & Huiza, 1994; Sarmiento *et al.*, 1999).

***Proleptus* sp.**

*Galeichthys peruvianus*, *Labrisomus philippii*, *Menticirrhus ophicephalus*, *Myliobatis peruvianus*, *Scartichthys gigas*, *Sciaena deliciosa*, *Trachinotus paitensis*; larvae; intestine; mesentery; stomach; marine; Lima (Rivera & Sarmiento, 1990a; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Pérez *et al.*, 1999; Sarmiento *et al.*, 1999; Iannacone *et al.*, 2011b; Tarmeño *et al.*, 2015).

**Family Rhabdochonidae Travassos, Artigas & Pereira, 1928*****Johnstonmawsonia* sp.**

*Scartichthys gigas*; adult; intestine; marine; Lima (Iannacone *et al.*, 2012b).

***Rhabdochona* sp.**

*Paratrygon aiereba*, *Potamotrygon falkeri*, *Trichomycterus dispar*; adult; intestine; freshwater; Lambayeque, Madre Rios (Tantaleán *et al.*, 1985a; Reyda, 2008).

**PHYLUM PLATYHELMINTHES****Gegenbaur, 1859****Class Cestoda Rudolphi, 1808****Order Bothriocephalidea Kuchta, Scholz, Brabec & Bray, 2008**



**Family Bothriocephalidae Blanchard,  
1849**

***Clestopothrium crassiceps* (Rudolphi, 1819)**

*Merluccius gayi peruanus*; adult; intestine; marine; La Libertad, Lima (Tantaleán, 1976; Durán & Oliva, 1980; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Jara, 1998; Chero *et al.*, 2014b).

**Family Echinophallidae Schumacher, 1914**  
***Neobothriocephalus aspinosus* Mateo & Bullock, 1966**

*Seriolella violacea*; adult; intestine; marine; Lima (Mateo & Bullock, 1966; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Iannacone, 2003).

**Family Triaenophoridae Lönnberg, 1889**  
***Anchistrocephalus microcephalus* (Rudolphi, 1819)**

*Mola mola*; adult; intestine; marine; Lima (Tantaleán & Huiza, 1994).

***Fistulicola plicatus* (Rudolphi, 1819)**

*Mola mola*; adult; intestine; marine; Lima (Tantaleán & Huiza, 1994).

***Glossobothrium* sp.**

*Hemilutjanus macrophthalmos*; adult; intestine; marine; Lima (Tantaleán *et al.*, 1982; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).

**Order Diphyllidea van Beneden in Carus,  
1863**

**Family Echinobothriidae Perrier, 1897**  
***Echinobothrium* sp.**

*Myliobatis peruvianus*; adult; spiral valvule; marine; Ica (Tantaleán & Huiza, 1994).

**Order Diphyllobothriidea Kuchta, Scholz,  
Brabec & Bray, 2008**

**Family Diphyllobothridae Lühe, 1910**  
***Adenocephalus pacificus* Nybelin, 1931**

*Anisotremus scapularis*, *Ariopsis seemanni*, *Cilus gilberti*, *Coryphaena*

*hippurus*, *Cynoscion analis*, *Galeichthys peruvianus*, *Genypterus maculatus*, *Menticirrhus ophicephalus*, *Merluccius gayi peruanus*, *Paralabrax humeralis*, *Paralichthys adspersus*, *Paralonchurus peruanus*, *Sarda chiliensis*, *Sciaena callaensis*, *Sciaena deliciosa*, *Scomber japonicus*, *Scomberomorus sierra*, *Trachinotus paitensis*, *Trachurus murphyi*, larvae; mesentery; visceral surface; marine; Ancash, La Libertad, Lambayeque, Lima (Baer, 1969, Tantaleán, 1975b; Escalante, 1983; Escalante & Miranda, 1986; Tantaleán & Huiza, 1984, 1994; Luque *et al.*, 1991; Iannacone & Alvarino, 2009; Wicht *et al.*, 2010, Chero *et al.*, 2014a,b,c).

***Diphyllobothrium* sp.**

*Sarda chiliensis*, *Scomberomorus sierra*, *Trachurus murphyi*; larvae; cavity; marine; La Libertad, Lima (Baer, 1969; Tantaleán & Huiza, 1994; Pérez *et al.*, 1999; Llerena *et al.*, 2001).

**Diphyllobothridae gen. sp.**

*Merluccius gayi peruanus*, *Scomber japonicus*; larvae; mesentery; marine; La Libertad, Lima (Jara, 1998; Oliva *et al.*, 2008)

***Ligula intestinalis* (Linnaeus, 1758)**

*Odontesthes bonariensis*, *Orestias albus*, *O. luteus*, *Orestias* sp.; larvae; body cavity; freshwater; Puno (Tantaleán *et al.*, 1985a).

**Order Proteocephalidea Mola, 1928**

**Family Proteocephalidae (La Rue, 1911)**  
***Ageneiella* sp.**

*Ageneiosus inermis*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2015a).

***Amphoteromorphus ovalis* Carfora, de Chambrier & Vaucher, 2003**

*Brachyplatystoma* cf. *filamentosum*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2015a).

***Amphoteromorphus peniculus* Diesing, 1850**

- Brachyplatystoma rousseauxii*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2015a, b).
- Amphoteromorphus parkamoo* Woodland, 1935**  
*Zungaro zungaro*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2006, 2015a).
- Amphoteromorphus piriformis* Carfora, de Chambrier & Vaucher, 2003**  
*Brachyplatystoma rousseauxii*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2006, 2015a).
- Brayela karuatayi* (Woodland, 1934)**  
*Platynemichthys notatus*; adult (immature); intestine; freshwater; Ancash, Loreto (de Chambrier *et al.*, 2014, 2015a, b).
- Chambriella agostinhoi* (Pavanelli & Santos, 1992)**  
*Zungaro zungaro*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2006, 2015a).
- Chambriella paranaensis* (Pavanelli & Rego, 1989)**  
*Hemisorubim platyrhynchos*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2006, 2015a).
- Chambriella* sp.**  
*Brachyplatystoma vaillantii*, *Phractocephalus hemioliopterus*, *Pseudoplatystoma fasciatum*, *Sorubimichthys planiceps*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2006, 2015a; de Chambrier & Scholz, 2008).
- Choanoscolex abscisus* (Riggenbach, 1896)**  
*Pseudoplatystoma fasciatum*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2015a).
- Choanoscolex* sp.**  
*Pseudoplatystoma punctifer*, *P. tigrinum*, *Sorubimichthys planiceps*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2006, 2015a; de Chambrier & Scholz, 2008).
- Endorchis piraeaba* Woodland, 1934**  
*Brachyplatystoma* cf. *filamentosum*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2015a).
- Endorchis* sp.**  
*Pimelodus altissimus*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2015a).
- Euzetiella tetrphylliformis* de Chambrier, Rego & Vaucher, 1999**  
*Zungaro zungaro*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2006, 2015a).
- Gibsoniella mandube* (Woodland, 1935)**  
*Ageneiosus inermis*, *Ageneiosus* sp.; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2015a, b).
- Harriscolex kaparari* (Woodland, 1935)**  
*Pseudoplatystoma fasciatum*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2015a).
- Harriscolex piramutab* (Woodland, 1934)**  
*Brachyplatystoma vaillantii*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2006, 2015a).
- Houssayela sudobim* (Woodland, 1935)**  
*Pseudoplatystoma punctifer*, *Sorubimichthys planiceps*; adult; intestine; freshwater; Loreto (de Chambrier & Scholz, 2005; de Chambrier *et al.*, 2006, 2015a, b).
- Jauella glandicephalus* Rego & Pavanelli, 1985**  
*Zungaro zungaro*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2015a).
- Lenhataenia megacephala* (Woodland, 1934)**  
*Sorubimichthys planiceps*; adult; intestine; freshwater; Loreto (de Chambrier & Scholz 2008; de Chambrier *et al.*, 2015a).
- Manaosia bracademoca* Woodland, 1935**  
*Sorubim lima*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2015a).
- Mariauxiella piscatorum* de Chambrier & Vaucher, 1999**  
*Hemisorubim platyrhynchos*; adult;

- intestine; freshwater; Loreto (de Chambrier *et al.*, 2006, 2015a).
- Megathylacus jandia** Woodland, 1934  
*Zungaro zungaro*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2015a).
- Megathylacus** sp.  
*Pseudoplatystoma fasciatum*, *P. punctifer*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2014, 2015a).
- Monticellia amazonica** de Chambrier & Vaucher, 1997  
*Calophysus macropterus*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2006, 2015a; Scholz *et al.*, 2008).
- Monticellia belavistensis** Pavanelli, Machado dos Santos, Takemoto & dos Santos 1994  
*Pterodoras granulatus*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2015a).
- Monticellia santafesina** Arredondo & Gil de Pertierra, 2010  
*Megalonema platycephalum*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2015a).
- Monticellia ventrei** de Chambrier & Vaucher, 1999  
*Pinirampus pirinampu*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2015a).
- Monticelliinae** gen. sp.  
*Phractocephalus hemioliopterus*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2015a).
- Nomimoscolex admonticellia** (Woodland, 1934)  
*Pinirampus pirinampu*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2015a).
- Nomimoscolex lenha** (Woodland, 1933)  
*Sorubimichthys planiceps*; adult; intestine; freshwater; Loreto (de Chambrier & Scholz, 2008; de Chambrier *et al.*, 2015a).
- Nomimoscolex lopesi** Rego, 1989  
*Pseudoplatystoma fasciatum*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2006, 2015a).
- Nomimoscolex sudobim** Woodland, 1935  
*Pseudoplatystoma fasciatum*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2015a).
- Nomimoscolex cf. sudobim** Woodland, 1935  
*Pseudoplatystoma tigrinum*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2006).
- Nomimoscolex suspectus** Zehnder, de Chambrier, Vaucher & Mariaux, 2000  
*Brachyplatystoma cf. filamentosum*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2015a).
- Nomimoscolex** sp.  
*Pimelodus ornatus*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2015a).
- Nupelia** sp.  
*Goeldiella eques*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2006, 2015a).
- Pelidocotyle lenha** (Woodland, 1933)  
*Sorubimichthys planiceps*, *Zungaro zungaro*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2006, 2015a; de Chambrier & Scholz, 2008).
- Pelidocotyle rugosa** Diesing, 1850  
*Pseudoplatystoma fasciatum*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2015a).
- Proteocephalidea** gen. sp.  
*Cichlasoma amazonarum*, *Paratrygon aiereba*, *Potamotrygon cf. falkeri*, *P. motoro*; larvae (hyperparasite), adult; intestine; freshwater; Loreto, Madre de Dios (Reyda, 2008; de Chambrier *et al.*, 2015a).
- Proteocephalus gibsoni** Rego & Pavanelli, 1991  
*Astronotus ocellatus*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2006, 2015a).
- Proteocephalus hemioliopteri** de Chambrier & Vaucher, 1997  
*Phractocephalus hemioliopterus*; adult;

- intestine; ; freshwater; Loreto (de Chambrier *et al.*, 2015a).
- Proteocephalus hobergi* de Chambrier & Vaucher, 1999**  
*Oxydoras niger*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2015a).
- Proteocephalus kuyukuyu* Woodland, 1935**  
*Megalodoras uranoscopus*, *Pterodoras granulosus*; *Pterodoras* sp.; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2015a,b).
- Proteocephalus macrophallus* (Diesing, 1850)**  
*Cichla monoculus*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2006, 2015a,b).
- Proteocephalus microscopicus* Woodland, 1935**  
*Cichla monoculus*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2006, 2015a).
- Proteocephalus sophiae* de Chambrier & Rego, 1994**  
*Zungaro zungaro*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2015a).
- Proteocephalus* sp.**  
*Orestias albus*, *O. luteus*, *Phractocephalus hemioliopterus*, *Pimelodus blochii*, *Pterodoras granulosus*; adult, larvae; intestine; freshwater; Loreto (Tantaleán *et al.*, 1985a; de Chambrier *et al.*, 2006, 2015a).
- Rudolphiella piracatinga* (Woodland, 1935)**  
*Calophysus macropterus*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2006, 2015a).
- Rudolphiella* sp.**  
*Pinirampus pirinampu*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2015a).
- Scholzia emarginata* (Diesing, 1850)**  
*Phractocephalus hemioliopterus*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2006, 2015a).
- Sciadocephalus megalodiscus* Diesing, 1850**  
*Cichla monoculus*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2006, 2015a,b).
- Spasskyellina lenha* (Woodland, 1933)**  
*Sorubimichthys planiceps*; adult; intestine; freshwater; Loreto (de Chambrier & Scholz, 2008; de Chambrier *et al.*, 2015a,b).
- Spasskyellina spinulifera* (Woodland, 1935)**  
*Pseudoplatystoma punctifer*, *P. tigrinum*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2006, 2015a).
- Spatulifer maringaensis* Pavanelli & Rego, 1989**  
*Hemisorubim platyrhynchos*, *Sorubim lima*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2006, 2015a).
- Spatulifer rugosa* (Woodland, 1935)**  
*Pseudoplatystoma punctifer*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2006, 2015a).
- Spatulifer* sp.**  
*Pseudoplatystoma tigrinum*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2006, 2015a).
- Travassiwella jandia* (Woodland, 1934)**  
*Zungaro zungaro*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2006, 2015a).
- Zygothrium megacephalum* Diesing, 1850**  
*Phractocephalus hemioliopterus*; adult; intestine; freshwater; Loreto (de Chambrier *et al.*, 2006, 2015a).
- Order Cathetocephalidea Schmidt & Beveridge, 1990**
- Family Cathetocephalidae Dailey & Overstreet, 1973**
- Cathetocephalus thatcheri* Dailey & Overstreet, 1973**  
*Carcharhinus leucas*, *C. porosus*; adult; spiral valve; marine; Lima (Rivera & Sarmiento, 1990b; Tantaleán & Huiza, 1994).
- Family Disculicipitidae Joyeux & Baer,**

1936

***Disculiceps pileatus* (Linton, 1891)**

*Carcharhinus porosus*; adult; spiral valve; marine; Lima (Tantaleán, 1991; Tantaleán & Huiza, 1994).

**Order Onchoproteocephalidea Caira,  
Jensen, Waeschenbach, Olson &  
Littlewood, 2014**

**Family Prosobothriidae Baer & Euzet,  
1955**

***Prosobothrium armigerum* Cohn, 1902**

*Prionace glauca*; adult; spiral valve; marine; Lima (Rivera & Sarmiento, 1990b; Tantaleán & Huiza, 1994).

**Family Onchobothriidae Braun, 1900 (*pro parte*)**

***Acanthobothrium bataillonii* Euzet, 1955**

*Myliobatis chilensis*; adult; spiral valve; marine; La Libertad (Escalante, 1986; Tantaleán & Huiza, 1994).

***Acanthobothrium brevissime* Linton, 1908**

*Myliobatis peruvianus*; adult; spiral valve; marine; Lima (Tantaleán, 1991; Tantaleán & Huiza, 1994; Ghoshroy & Caira, 2001; Campbell & Beveridge, 2002).

***Acanthobothrium chilensis* Rego, Vicente & Herrera, 1968**

*Sarda chiliensis*; adult; spiral valve; marine; Piura (Rego *et al.*, 1968; Tantaleán & Huiza, 1994).

***Acanthobothrium gonzalesmugaburui* Severino & Sarmiento, 1979**

*Myliobatis peruvianus*; adult; spiral valve; marine; Ancash, Lima (Severino & Sarmiento, 1979; Tantaleán *et al.*, 1982; Tantaleán & Huiza, 1994; Ghoshroy & Caira, 2001; Campbell & Beveridge, 2002; Morales *et al.*, 2005).

***Acanthobothrium holorhini* Alexander, 1953**

*Myliobatis chilensis*, *M. peruvianus*; adult; spiral valve; marine; Lima (Rodríguez & Tantaleán, 1980, Tantaleán *et al.*, 1982; Tantaleán & Huiza, 1994; Ghoshroy & Caira, 2001; Campbell &

Beveridge, 2002).

***Acanthobothrium lusarmientae* Severino & Verano, 1980**

*Sympterygia brevicaudata*; adult; spiral valve; marine; Lima (Severino & Verano, 1980; Tantaleán *et al.*, 1982; Tantaleán & Huiza, 1994; Ghoshroy & Caira, 2001; Campbell & Beveridge, 2002; Morales *et al.*, 2005).

***Acanthobothrium olsenii* Dailey & Mudry, 1968**

*Rhinobatos planiceps*; adult; intestine, spiral valve; marine; Lima (Iannacone *et al.*, 2011a).

***Acanthobothrium peruvienne* Reyda, 2008**

*Potamotrygon motoro*; adult; spiral valve; freshwater; Madre de Dios (Reyda, 2008).

***Acanthobothrium cf. peruvienne* Reyda, 2008**

*Potamotrygon cf. falkeri*; adult; spiral valve; freshwater; Madre de Dios (Reyda, 2008).

***Acanthobothrium psammobati* Carvajal & Goldstein, 1969**

*Sympterygia brevicaudata*; adult; spiral valve; marine; Lima; (Tantaleán, 1991; Tantaleán & Huiza, 1994).

***Acanthobothrium cf. ramiroi* Ivanov, 2005**

*Potamotrygon motoro*; adult; spiral valve; freshwater; Madre de Dios (Reyda, 2008).

***Acanthobothrium robustum* Alexander, 1953**

*Rhinobatos planiceps*; adult; spiral valve; marine; Ancash, La Libertad (Escalante, 1986; Tantaleán & Huiza, 1994).

***Acanthobothrium* sp.**

*Myliobatis chilensis*; adult; spiral valve; marine; La Libertad (Tresierra *et al.*, 1986; Tantaleán & Huiza, 1994).

***Acanthobothroides peruensis* López, 1994**

*Dasyatis dipterura*; adult; spiral valve; marine; Lima (Morales *et al.*, 2005).

***Acanthobothroides thorsoni* Brooks, 1977**

*Dasyatis dipterura*; adult; spiral valve; marine; Ancash, Lima (López, 1994; Tantaleán & Rodríguez, 1987; Tantaleán & Huiza, 1994).

***Platybothrium auriculatum* Yamaguti, 1952**

*Prionace glauca*; adult; spiral valve; marine; La Libertad, Lima (Escalante, 1986; Tantaleán & Huiza, 1994).

***Platybothrium* sp.**

*Sphyrna zygaena*; adult; spiral valve; marine; Lima (López de McDonald & Tantaleán, 1985; Tantaleán & Huiza, 1994).

***Potamotrygonocestus* cf. *fitzgeraldae* Marques, Brooks & Araujo, 2003**

*Paratrygon aiereba*, *Potamotrygon falkeri*; adult; spiral valve; freshwater; Madre de Dios (Reyda, 2008; Caira et al., 2014)

***Potamotrygonocestus* sp.**

*Paratrygon aiereba*, *Potamotrygon* cf. *falkeri*, *P. motoro*; adult; spiral valve; freshwater; Madre de Dios (Reyda & Olson, 2003; Reyda, 2008; Caira et al., 2014).

**Order Phyllobothriidea Caira, Jensen, Waeschenbach, Olson & Littlewood, 2014****Family Phyllobothriidae Braun, 1900*****Clistobothrium tumidum* (Linton, 1922)**

*Isurus oxyrinchus*; adult; spiral valve; marine; Lima (Tantaleán & Huiza, 1994).

***Nandocestus guariticus* (Marques, Brooks & Lasso, 2001)**

*Paratrygon aiereba*, *Potamotrygon* cf. *falkeri*; adult; spiral valve; freshwater; Madre de Dios (Reyda & Olson, 2003; Reyda, 2008; Ruhnke, 2011; Caira et al., 2014).

***Orygmatobothrium musteli* (Van Beneden, 1849)**

*Mustelus dorsalis*, *M. lunulatus*, *M. whitneyi*, *Prionace glauca*; adult; spiral valve; marine; Ancash, La Libertad (Escalante & Carvajal, 1981; Escalante, 1986; Tantaleán & Huiza, 1994).

***Orygmatobothrium* sp.**

*Mustelus mento*; stomach; marine; La Libertad (Tresierra et al., 1986; Tantaleán & Huiza, 1994).

***Paraorygmatobothrium triacis* (Yamaguti, 1952)**

*Mustelus dorsalis*, *M. whitneyi*; adult; spiral valve; marine; Ancash, La Libertad (Escalante & Carvajal, 1981; Tantaleán & Huiza, 1994).

***Phyllobothrium lactuca* (Van Beneden, 1850)**

*Mustelus mento*; adult; spiral valve; marine; Lambayeque, Lima (Escalante & Carvajal, 1981; Tantaleán & Huiza, 1994).

***Phyllobothrium thridax* (Van Beneden, 1849)**

*Myliobatis chilensis*, *Myliobatis peruvianus*; adult; spiral valve; marine; Ancash, Lima (Tantaleán, 1991; Tantaleán & Huiza, 1994).

***Phyllobothrium* sp.**

*Mustelus mento*, *Rhinobatos planiceps*, *Squatina armata*; adult; spiral valve; marine; La Libertad (Tresierra et al., 1986; Tantaleán & Huiza, 1994).

***Thysanocephalum thysanocephalum* (Linton, 1889)**

*Sphyrna zygaena*; adult; intestine; marine; Lima (López de McDonald & Tantaleán, 1985; Tantaleán & Huiza, 1994).

**Order “Tetraphyllidea” Carus, 1863*****Anthobothrium laciniatum* Linton, 1890**

*Prionace glauca*; adult; spiral valve; marine; Lima (Tantaleán & Huiza, 1994).

***Anthobothrium* sp.**

*Myliobatis peruvianus*; adult; spiral valve; marine; Lima (Tantaleán & Huiza, 1994).

***Calliobothrium verticillatum* (Rudolphi, 1819)**

*Mustelus mento*; adult; spiral valve; marine; Ancash, Lambayeque (Escalante & Carvajal, 1981; Tantaleán & Huiza, 1994).

***Calliobothrium* sp.**

*Mustelus mento*; adult; spiral valve; stomach; marine; La Libertad, Lima (Tresierra et al., 1986; Tantaleán & Huiza, 1994).

1994).

***Caulobothrium myliobatidis* Carvajal, 1977**  
*Myliobatis chilensis*; adult; spiral valve; marine; Ancash (Tantaleán, 1991; Tantaleán & Huiza, 1994).

***Caulobothrium* sp.**

*Rhinoptera steindachneri*; adult; spiral valve; marine; Lima (Tantaleán & Huiza, 1994).

***Dinobothrium paciferum* Sproston, 1948**

*Cetorhinus maximus*; adult; spiral valve; marine; Lima (Rivera & Sarmiento, 1990b; Tantaleán & Huiza, 1994).

**“*Scolex pleuronectis*” Müller, 1788**

*Coryphaena hippurus*, *Ethmidium maculatum*, *Genypterus maculatus*, *Katsuwonus pelamis*, *Odontesthes regia*, *Sarda chiliensis*, *Sardinops sagax*, *Scomber japonicus*, *Stellifer minor*, *Strongylura scapularis*, *Synodus scituliceps*, *Trachurus murphyi*; larve (metacestodes); caecum, intestine; marine; La Libertad, Piura (Escalante & Carvajal, 1984; Escalante *et al.*, 1987; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Jara, 1998; Cruces *et al.*, 2014).

***Symcallio lintoni* (Euzet, 1954)**

*Mustelus whitneyi*; adult; spiral valve; marine; La Libertad (Escalante & Carvajal, 1981; Tantaleán & Huiza, 1994).

**Order Rhinebothriidea Healy, Caira, Jensen, Webster & Littlewood, 2009**

**Family Echeneibothriidae de Beauchamp, 1905**

***Echeneibothrium* sp.**

*Myliobatis chilensis*; adult; spiral valve; marine; La Libertad (Tantaleán & Huiza, 1994).

**Family Rhinebothriidae Euzet, 1953**

***Rhinebothrium copianullum* Reyda, 2008**

*Paratrygon aiereba*, *Potamotrygon* cf. *falkeri*, *P. motoro*, *P. tatanianae*; adult; spiral intestine; freshwater; Madre de Dios (Reyda, 2008; Reyda & Marques,

2011).

***Rhinebothrium rhinobati* Dailey & Carvajal, 1976**

*Rhinobatos planiceps*; adult; spiral valve; marine; Lima (Tantaleán, 1991; Tantaleán & Huiza, 1994; Iannacone *et al.*, 2011a).

***Rhinebothrium* sp.**

*Myliobatis chilensis*, *Myliobatis peruvianus*, *Paratrygon aiereba*, *Synodus scituliceps*; adult, larvae; intestine, spiral valve; freshwater, marine; La Libertad, Lima, Madre de Dios, Piura (Escalante *et al.*, 1987; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Reyda & Olson, 2003; Healy *et al.*, 2009).

***Rhodobothrium mesodesmatum* (Bahamonde & Lopez, 1962)**

*Myliobatis chilensis*, *M. peruvianus*, *Sarda chiliensis*; adult; spiral valve, intestine; marine; Ica, Lima (Rego *et al.*, 1968; Rodriguez & Tantaleán, 1980; López de McDonald & Tantaleán, 1985; Tresierra *et al.*, 1986; Tantaleán & Huiza, 1994).

***Rhodobothrium pulvinatum* Linton, 1889**

*Dasyatis dipterura*; adult; spiral valve; marine; Ancash (Tantaleán & Huiza, 1994).

***Rhinebothroides* sp.**

*Paratrygon aiereba*, *Potamotrygon falkeri*, *Potamotrygon* cf. *falkeri*, *P. motoro*; adult; spiral valve; freshwater; Madre de Dios (Reyda & Olson, 2003; Reyda, 2008; Healy *et al.*, 2009).

**Order Trypanorhyncha Diesing, 1863**

**Trypanorhyncha gen. sp.**

*Paralabrax humeralis*; unspecified development stage; unspecified site of infection; marine; Lima (Iannacone & Alvarino, 2009a).

**Family Lacistorhynchidae Guiart, 1937**

***Dasyrhynchus pacificus* Robinson, 1965**

*Sciaena deliciosa*; larvae; mesentery; marine; La Libertad, Piura (Escalante &

- Carvajal, 1984; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Palm, 2004).
- Grillotia dollfusi* Carvajal, 1971**  
*Merluccius gayi peruanus*; larvae; visceral surface; marine; Lima (Chero *et al.*, 2014b).
- Grillotia* sp.**  
*Paralabrax humeralis*, *Squatina armata*; larvae; mesentery, stomach; marine; La Libertad, Piura (Armas, 1983a; Tresierra *et al.*, 1986; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).
- Pseudogrillotia peruviana* Escalante & Carvajal, 1984**  
*Scomberomorus sierra*; larvae; mesentery; marine; La Libertad (Escalante & Carvajal, 1984; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).
- Callitetrarhynchus gracilis* (Rudolphi, 1819)**  
*Cilus gilberti*, *Galeichthys peruvianus*, *Hemilutjanus macrophthalmos*, *Merluccius gayi peruanus*, *Paralabrax humeralis*, *Paralonchurus peruanus*, *Sciaena deliciosa*, *Scomber japonicus*, *Trachurus murphyi*; larvae; mesentery, viscera; marine; Ancash, La Libertad, Lambayeque, Lima, Piura (Durán & Oliva, 1980; Escalante & Carvajal, 1984; Escalante & Miranda, 1986; Escalante *et al.*, 1986; Luque *et al.*, 1991; Tantaleán & Huiza, 1994, Oliva & Ballón, 2002; Palm, 2004; Chero *et al.*, 2014b).
- Floriceps saccatus* Cuvier, 1817**  
*Centropomus nigrescens*; larvae; mesentery; marine; Piura (Escalante & Carvajal, 1984; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).
- Lacistorhynchus dollfusi* Beveridge & Sakanari, 1987**  
*Cheilotrema fasciatum*; larvae; mesentery; marine; Lima (Oliva & Luque, 1998b).
- Lacistorhynchus tenuis* (Van Beneden, 1858)**  
*Anisotremus scapularis*, *Cheilodactylus variegatus*, *Cheilotrema fasciatum*, *Galeichthys peruvianus*, *Labrisomus philippii*, *Merluccius gayi peruanus*, *Mugil cephalus*, *Mustelus dorsalis*, *M. mento*, *M.s whitneyi*, *Odontesthes regia*, *Paralichthys adspersus*, *Paralonchurus peruanus*, *Scartichthys gigas*, *Sciaena deliciosa*, *Stellifer minor*; adult, larvae; mesentery, muscles, spiral valve, viscera; marine; Ancash, La Libertad, Lambayeque, Lima (Durán & Oliva, 1980; Escalante & Carvajal, 1984; Rivera & Sarmiento, 1990a; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Jara, 1998; Oliva & Luque, 1998b, 2002; Cruces *et al.*, 2015).
- Family Pterobothriidae Pintner, 1931**
- Pterobothrium acanthotruncatum* Escalante & Carvajal, 1984**  
*Coryphaena hippurus*, *Paralonchurus peruanus*; larvae; gonads, mesentery, swimming bladder; marine; La Libertad, Lima (Tantaleán *et al.*, 1982; Escalante & Carvajal, 1984; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).
- Pterobothrium* sp.**  
*Paralonchurus peruanus*; larvae; mesentery; marine; Lima (Tantaleán *et al.*, 1982; Luque *et al.*, 1991; Palm, 2004).
- Family Eutetrarhynchidae Guiart, 1927**
- Eutetrarhynchus* sp.**  
*Trachurus murphyi*; larvae; mesentery; marine; Lima, Piura (Oliva, 1999).
- Prochristianella heteracantha* Dailey & Carvajal, 1976**  
*Rhinobatos planiceps*; adult; intestine, spiral valve, stomach; marine; Ancash, Lima (Tantaleán & Rodriguez, 1987; Tantaleán & Huiza, 1994; Iannacone *et al.*, 2011a).
- Family Otobothriidae Dollfus, 1942**
- Otobothrium* sp.**  
*Cynoscion analis*; larvae; muscles, viscera; marine; Lambayeque (Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Palm, 2004).
- Poecilancistrum caryophyllum* (Diesing,**



**1850)**

*Cilus gilberti*; larvae; mesentery; marine; La Libertad (Escalante & Carvajal, 1984; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Palm, 2004).

**Family Sphyriocephalidae Pintner, 1913**

***Hepatoxylon megacephalum* (Rudolphi, 1819)**

*Trichomycterus punctulatus*; larvae; body cavity; freshwater; unspecified locality (Palm, 2004).

***Hepatoxylon trichiuri* (Holten, 1802)**

*Brama japonica*, *Prionace glauca*; adult, larvae; mesentery, stomach, intestine; marine; La Libertad, Lima (Escalante, 1986; Tantaleán & Huiza, 1994; Iannacone & Alvarino, 2013).

***Sphyriocephalus tergestinus* Pintner, 1913**

*Sarda chiliensis*; larvae; stomach; marine; Lima (Chero *et al.*, 2015b).

**Family Tentaculariidae Poche, 1926**

***Nybelinia surmenicola* Okada in Dollfus, 1929**

*Trachurus murphyi*; larvae; unspecified site of infection; marine; Piura (Oliva, 1999).

***Nybelinia* sp.**

*Brama japonica*, *Coryphaena hippurus*, *Cynoscion analis*, *Isacia conceptionis*, *Isurus oxyrinchus*, *Merluccius gayi peruanus*, *Mustelus mento*, *Myliobatis peruvianus*, *Paralonchurus peruanus*, *Sarda chiliensis*, *Sciaena deliciosa*, *Scomber japonicus*, *Serirolella violacea*, *Stellifer minor*, *Trachurus murphyi*; larvae; mesentery, valve, visceral surface; marine; La Libertad, Lambayeque, Lima (López de McDonald & Tantaleán, 1985; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Jara, 1998; Pérez *et al.*, 1999; Llerena *et al.*, 2001; Oliva & Ballón, 2002 as *N. surmenicola*; Palm, 2004; Williams & Williams, 2009; Vásquez-Ruiz & Jara-Campos, 2012; Iannacone & Alvarino, 2013; Chero *et al.*, 2014a; Iannacone *et*

*al.*, 2015).

***Tentacularia coryphaenae* Bosc, 1802**

*Centropomus nigrescens*, *Coryphaena hippurus*, *Katsuwonus pelamis*, *Merluccius gayi peruanus*, *Prionace glauca*, *Scomber japonicus*, *Trachurus murphyi*; adult, larvae; mesentery, spiral valve, visceral surface; marine; La Libertad, Lambayeque, Lima, Piura (Durán & Oliva, 1980; Escalante & Carvajal, 1984; López & Tantaleán, 1985; Escalante, 1986; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Jara, 1998; Oliva, 1999; Pérez *et al.*, 1999; Llerena *et al.*, 2001; Palm, 2004; Oliva *et al.*, 2008; Vásquez-Ruiz & Jara-Campos, 2012).

**Order Amphilinidea Poche, 1922**

**Family Schizochoceridae Poche, 1922**

***Nesolecithus janicki* (Poche, 1922)**

*Arapaima gigas*; adult; body cavity; freshwater; Amazon River Basin (Thatcher, 2006).

***Schizochocerus liguloideus* (Diesing, 1850)**

*Arapaima gigas*; adult; body cavity; freshwater; Loreto (Serrano-Martínez *et al.*, 2015).

**Order Gyrocotylidae Poche, 1926**

**Family Gyrocotylidae Benham, 1901**

***Gyrocotyle maxima* MacDonagh, 1927**

*Callorhynchus callorhynchus*; adult; spiral valve; marine; Lima, La Libertad (Tantaleán, 1991; Tantaleán & Huiza, 1994).

**Class Monogenea Van Beneden, 1858**

**Order Capsalidea Lebedev, 1988**

**Family Capsalidae Baird, 1853**

***Benedenia* sp.**

*Isacia conceptionis*; adult; gills; marine; La Libertad (Escalante *et al.*, 1982a; Tantaleán & Huiza, 1994; Paschoal *et al.*, 2015).

***Benedeniella* sp.**

*Myliobatis peruvianus*; stomach; gills; marine; Ica (Tantaleán & Huiza, 1994).

***Capsala gregalis* (Wagner & Carter, 1967)**

*Sarda chiliensis*; adult; gills; marine; Arequipa, Lima (Luque *et al.*, 1991; Luque & Iannacone, 1991a; Tantaleán & Huiza, 1994).

***Encotyllabe antofagastensis* Sepúlveda, González & Oliva, 2014**

*Anisotremus scapularis*; adult; gills; marine; Lima (Chero *et al.*, 2014d).

***Encotyllabe callaoensis* Tantaleán, 1974**

*Paralonchurus peruanus*, *Sciaena deliciosa*; adult; gills, mouth; marine; Lima (Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Chero *et al.*, 2014a).

***Encotyllabe* sp.**

*Aplodactylus punctatus*, *Stellifer minor*; adult; gills; marine; Ica, La Libertad, Lambayeque (Tantaleán & Huiza, 1994; Jara, 1998).

***Macrophyllida antarctica* (Hughes, 1928) Johnston, 1930**

*Cheilodactylus variegatus*; adult; gills; marine; Lima (Martínez *et al.*, 2013)

***Neobenedenia* sp.**

*Genypterus* sp., *Mugil cephalus*, Ophidiidae gen sp.; adult; gills; marine; Ancash, Lima (Luque *et al.*, 1991; Tantaleán & Huiza, 1994).

**Order Dactylogyridea Bychowsky, 1937****Family Calceostomatidae Parona & Perugia, 1890*****Calceostoma* sp.**

*Orthopristis chalceus*; adult; gills; marine; La Libertad, Piura (Tantaleán & Huiza, 1994).

**Family Dactylogyridae Bychowsky, 1933*****Ameloblastella unapi* Mendoza-Franco & Scholz, 2009**

*Calophysus macropterus*; adult; gills; freshwater; Loreto (Mendoza-Franco & Scholz, 2009).

***Ameloblastella* sp.**

*Hassar* sp., *Hypophthalmus edentatus*, *Sorubim lima*; adult; gills; freshwater; Loreto (Mendoza-Palmero *et al.*, 2015).

***Amphithecium calycinum* Boeger & Kritsky, 1988**

*Pygocentrus nattereri*; adult; gills; freshwater; Loreto (Iannacone & Luque, 1993b).

***Amphithecium camelum* Boeger & Kritsky, 1988**

*Pygocentrus nattereri*; adult; gills; freshwater; Loreto (Iannacone & Luque, 1993b).

***Anacanthorus reginae* Boeger & Kritsky, 1988**

*Pygocentrus nattereri*; adult; gills; freshwater; Loreto (Iannacone & Luque, 1993b).

***Anacanthorus spathulatus* Kritsky, Thatcher & Kayton 1979.**

*Colossoma macropomum*; adult; gills; freshwater; Loreto (Soberon *et al.*, 2014).

***Anacanthorus stachophallus* Kritsky, Boeger & Van Every, 1992**

*Pygocentrus nattereri*; adult; gills; freshwater; Loreto (Iannacone & Luque, 1993b).

***Anacanthorus thatcheri* Boeger & Kritsky, 1988**

*Pygocentrus nattereri*; adult; gills; freshwater; Loreto (Iannacone & Luque, 1993b).

***Anacanthorus* sp.**

*Myleus schomburgkii*; adult; gills; freshwater; Loreto (Fernández-Méndez *et al.*, 2015).

***Ancyrocephalus* sp.**

*Strongylura scapularis*; adult; gills; marine; La Libertad, Piura (Tantaleán & Huiza, 1994).

***Aphanblastella aurora* Mendoza-Palmero, Scholz, Mendoza-Franco & Kuchta, 2012**

*Goeldiella eques*; adult; gills; freshwater; Loreto (Mendoza-Palmero *et al.*, 2012, 2015).

***Aphanoblastella* sp.**

*Goeldiella eques*; adult; gills; freshwater; Loreto (Mendoza-Palmero *et al.*, 2015)

***Cleidodiscus* sp.**

*Pimelodella yuncensis*; adult; gills; freshwater; La Libertad (Jara & Escalante, 1984).

***Cosmetocleithrum bulbocirrus* Kritsky, Thatcher & Boeger, 1986**

*Pterodoras granulatus*; adult; gills; freshwater; Loreto (Mendoza-Palmero *et al.*, 2012).

***Cosmetocleithrum confusus* Kritsky, Thatcher & Boeger, 1986**

*Oxydoras niger*; adult; gills; freshwater; Loreto (Iannacone & Luque, 1991).

***Cosmetocleithrum gussevi* Kritsky, Thatcher & Boeger, 1986**

*Oxydoras niger*; adult; gills; freshwater; Loreto (Iannacone & Luque, 1991).

***Cosmetocleithrum sobrinus* Kritsky, Thatcher & Boeger, 1986**

*Oxydoras niger*; adult; gills; freshwater; Loreto (Iannacone & Luque, 1991).

***Cosmetocleithrum* sp.**

*Hassar orestis*; adult; gills; freshwater; Loreto (Mendoza-Palmero *et al.*, 2015).

**Dactylogyridae gen. sp.**

*Ageneiosus vittatus*, *Colossoma macropomum*, *Hypophthalmus edentatus*, *Platynemichthys notatus*, *Platysilurus mucosus*, *Pseudoplatystoma fasciatum*, *Sorubim lima*; adult; gills; freshwater; Loreto (Bances *et al.*, 2013; Alcántara-Bocanegra *et al.*, 2015; Mendoza-Palmero *et al.*, 2015; Vargas *et al.*, 2015).

***Dactylogyrus* sp.**

*Aspistogramma* sp., *Cichlasoma* sp., *Carassius auratus*, *Pterophyllum scalare*, *Symphysodon aequifasciatus*; gills; tegument; freshwater; Amazon River basin, Lima (González-Fernández, 2012a; Aguinaga *et al.*, 2015).

***Dactylogyrus vastator* Nybelin, 1924**

*Cyprinus carpio carpio*; adult; gills; freshwater; La Libertad (Jara & Escalante, 1983a).

***Dawestrema cycloancistrioides* Kritsky, Thatcher & Boeger, 1985**

*Arapaima gigas*; adult; gills; freshwater; Loreto (Mathews *et al.*, 2013a; Serrano-Martínez *et al.*, 2015).

***Dawestrema cycloancistrum* Price & Nowlin, 1967**

*Arapaima gigas*; adult; fins, gills, skin; freshwater; Amazon River, Loreto (Iannacone & Luque, 1991; Mathews *et al.*, 2007; Mathews *et al.*, 2013a; García-Ruiz *et al.*, 2013; Mathews *et al.*, 2014a; Serrano-Martínez *et al.*, 2015a).

***Demidospermus brevicirrus* Mendoza-Palmero, Scholz, Mendoza-Franco & Kuchta, 2012**

*Pimelodus* sp.; adult; gills; freshwater; Loreto (Mendoza-Palmero *et al.*, 2012).

***Demidospermus centromochli* Mendoza-Franco & Scholz, 2009**

*Centromochlus heckelii*; adult; gills; freshwater; Loreto (Mendoza-Franco & Scholz, 2009).

***Demidospermus curvovaginatus* Mendoza-Palmero & Scholz, 2011**

*Pimelodus* sp., *Pimelodidae* gen. sp.; adult; gills; freshwater; Loreto (Mendoza-Palmero & Scholz, 2011).

***Demidospermus lebedev* (Kritsky & Thatcher 1976) Mendoza-Palmero & Scholz, 2011**

*Pimelodus blochii*, *Pimelodus* sp.; adult; gills; freshwater; Loreto (Mendoza-Palmero & Scholz, 2011).

***Demidospermus macropteri* Mendoza-Franco & Scholz, 2011**

*Calophysus macropterus*; adult; gills; freshwater; Loreto (Mendoza-Franco & Scholz, 2009).

***Demidospermus mortenthaleri* Mendoza-Palmero, Scholz, Mendoza-Franco & Kuchta, 2012**

*Brachyplatystoma juruense*; adult; gills; freshwater; Loreto (Mendoza-Palmero *et al.*, 2012, 2015).

***Demidospermus peruvianus* Mendoza-Palmero & Scholz, 2011**

- Pimelodus ornatus*, *P. blochii*, *Pimelodus* sp., Pimelodidae gen. sp.; adult; gills; freshwater; Loreto (Mendoza-Palmero & Scholz, 2011).
- Demidospermus striatus* Mendoza-Palmero & Scholz, 2011**  
*Pimelodus blochii*, *Pimelodus* sp.; adult; gills; freshwater; Loreto (Mendoza-Palmero & Scholz, 2011).
- Demidospermus* sp.**  
*Brachyplatystoma vaillantii*; adult; gills; freshwater; Loreto (Mendoza-Palmero *et al.*, 2015).
- Euryhaliotrema chaoi* Kritsky & Boeger, 2002**  
*Plagioscion squamosissimus*; adult; gills; freshwater; Amazon River Basin (Kritsky & Boeger, 2002).
- Euryhaliotrema lovejoyi* Kritsky & Boeger, 2002**  
*Plagioscion squamosissimus*; adult; gills; freshwater; Amazon River Basin (Kritsky & Boeger, 2002).
- Euryhaliotrema monacanthus* Kritsky & Boeger, 2002**  
*Plagioscion squamosissimus*; adult; gills; freshwater; Amazon River Basin (Kritsky & Boeger, 2002).
- Euryhaliotrema paralonchuri* (Luque & Iannacone, 1989)**  
*Paralonchurus peruanus*; adult; gills; marine; Lima (Luque & Iannacone, 1989a; Luque *et al.*, 1991; Luque & Oliva, 1993a; Oliva & Luque, 1998b).
- Euryhaliotrema potamocetes* Kritsky & Boeger, 2002**  
*Plagioscion squamosissimus*; adult; gills; freshwater; Amazon River Basin (Kritsky & Boeger, 2002).
- Euryhaliotrema succedanus* Kritsky & Boeger, 2002**  
*Plagioscion squamosissimus*; adult; gills; freshwater; Amazon River Basin (Kritsky & Boeger, 2002).
- Euryhaliotrema thatcheri* Kritsky & Boeger, 2002**  
*Plagioscion squamosissimus*; adult; gills; freshwater; Amazon River Basin (Kritsky & Boeger, 2002).
- Gonocleithrum cursitans* (Kritsky & Thatcher, 1983)**  
*Osteoglossum bicirrhosum*; adult; gills; freshwater; Amazon River Basin (Vásquez *et al.*, 2007).
- Gussevia alioides* Kritsky, Thatcher & Boeger, 1986**  
*Heros severus*; adult; gills; freshwater; Loreto (Mendoza-Franco *et al.*, 2010).
- Gussevia asota* Kritsky, Thatcher & Boeger, 1989**  
*Astronotus ocellatus*; adult; gills; freshwater; Loreto (Mendoza-Franco *et al.*, 2010; Mathews *et al.*, 2014b).
- Gussevia disparoides* Kritsky, Thatcher & Boeger, 1986**  
*Cichlasoma amazonarum*, *Heros severus*; adult; gills; freshwater; Loreto (Mendoza-Franco *et al.*, 2010).
- Gussevia longihaptor* (Mizelle & Kritsky, 1969)**  
*Cichla monoculus*; adult; gills; freshwater; Loreto (Mendoza-Franco *et al.*, 2010).
- Gussevia spiralocirra* Kohn & Paperna, 1964**  
*Pterophyllum scalare*; adult; gills; freshwater; Loreto (Kritsky *et al.*, 1986).
- Gussevia tucunarensis* Kritsky, Thatcher & Boeger, 1986**  
*Chaetobranchius semifasciatus*; adult; gills; freshwater; Loreto (Mathews *et al.*, 2013c).
- Gussevia undulata* Kritsky, Thatcher & Boeger, 1986**  
*Cichla monoculus*; adult; gills; freshwater; Loreto (Mendoza-Franco *et al.*, 2010; Mathews *et al.*, 2012).
- Hamatopeduncularia* sp.**  
*Galeichthys peruvianus*; adult; gills; marine; Lima (Iannacone & Luque, 1993a).
- Haliotrema mugilinus* Hargis, 1955**  
*Mugil cephalus*; adult; gills; freshwater; La Libertad (Jara & Escalante, 1983a).

- Jainus amazonensis* Kritsky, Thatcher & Kayton, 1980**  
*Brycon cephalus*; adult; gills; freshwater; Loreto (Mathews *et al.*, 2014a)
- Mexicana iannaconi* Chero, Cruces, Sáez & Alvarino, 2014**  
*Haemulon steindachneri*; adult; gills; marine; Lima (Chero *et al.*, 2014e).
- Mexicana* sp.**  
*Anisotremus scapularis*; adult; gills; marine; Lima (Iannacone & Alvarino, 2012; Chero *et al.*, 2014d; Paschoal *et al.*, 2015).
- Mymarothecium viatorum* Boeger, Piasecki & Sobecka, 2002**  
*Piaractus brachypomus*; gills; freshwater; Amazon River basin (Dinis-Vásquez, 2014).
- Notothecium bethae* Kritsky, Boeger & Jegu 1996**  
*Pygocentrus nattereri*; adult; gills; freshwater; Loreto (Gonzales *et al.*, 2015).
- Notothecium mizellei* Boeger & Kritsky, 1988**  
*Myleus schomburgkii*; adult; gills; freshwater; Loreto (Iannacone & Luque, 1993b).
- Notozothecium penetratum* Boeger & Kritsky, 1988**  
*Pygocentrus nattereri*; adult; gills; freshwater; Loreto (Iannacone & Luque, 1993b).
- Notozothecium* sp.**  
*Myleus schomburgkii*; adult; gills; freshwater; Loreto (Fernández-Méndez *et al.*, 2015).
- Oncocleidus* sp.**  
*Lebiasina bimaculata*; adult; gills; freshwater; La Libertad (Jara & Escalante, 1983b).
- Parancylodiscoides chaetodipteri* Caballero & Bravo-Hollis, 1961**  
*Parapsettus panamensis*; adult; gills; marine; Tumbes (Chero *et al.*, 2015c)
- Pseudohaliotrema* sp.**  
*Genypterus* sp.; adult; gills; marine; Lima (Tantaleán & Huiza 1994).
- Rhinonastes pseudocapsaloideum* Kritsky, Thatcher & Boeger, 1988**  
*Prochilodus nigricans*; adult; gills; freshwater; Loreto (Mathews *et al.*, 2013b).
- Rhinoxenus piranhus* Kritsky, Thatcher & Boeger, 1988**  
*Pygocentrus nattereri*; adult; nasal cavities; freshwater; Loreto (Iannacone & Luque, 1993b).
- Sciadicleithrum satanopercae* Yamada, Takemoto, Bellay & Pavanelli, 2009**  
*Satanoperca jurupari*; adult; gills; freshwater; Loreto (Mendoza-Franco *et al.*, 2010).
- Sciadicleithrum variabilum* (Mizelle & Kritsky 1969) Kritsky, Thatcher & Boeger, 1989**  
*Cichlasoma amazonarum*; adult; gills; freshwater; Loreto (Mendoza-Franco *et al.*, 2010).
- Tucunarella cichlae* Mendoza-Franco, Scholz & Rozkosna, 2010**  
*Cichla monoculus*; adult; gills; freshwater; Loreto (Mendoza-Franco *et al.*, 2010).
- Unibarra paranoplatensis* Suriano & Incorvaia, 1995**  
*Aguarunichthys torosus*; adult; gills; freshwater; Loreto (Mendoza-Palmero *et al.*, 2015).
- Unilatus brittani* Mizelle, Kritsky & Crane, 1968**  
*Pterygoplichthys anisitsi*; adult; gills; freshwater; Loreto (Mendoza-Palmero *et al.*, 2012).
- Unilatus unilatus* Mizelle & Kritsky, 1967**  
*Pterygoplichthys anisitsi*; adult; gills; freshwater; Loreto (Mendoza-Palmero *et al.*, 2012).
- Urocleidoides eremitus* Kritsky, Thatcher & Boeger, 1986**  
*Hoplias malabaricus*; adult; gills; freshwater; Madre de Dios (Iannacone & Luque, 1993b).
- Urocleidus* sp.**

*Aequidens rivulatus*; adult; gills; freshwater; La Libertad (Jara & Escalante, 1983b).

***Vancleaveus fungulus* Kritsky, Thatcher & Boeger, 1986**

*Pseudoplatystoma fasciatum*; adult; gills; freshwater; Loreto (Mendoza-Palmero *et al.*, 2012).

***Vancleaveus janauacaensis* Kritsky, Thatcher & Boeger, 1986**

*Pterodoras granulosus*; adult; gills; freshwater; Loreto (Mendoza-Palmero *et al.*, 2012, 2015).

***Vancleaveus platyrhynchi* Kritsky, Thatcher & Boeger, 1986**

*Hemisorubim platyrhynchos*; adult; gills; freshwater; Loreto (Mendoza-Palmero *et al.*, 2012).

**Family Diplectanidae Monticelli, 1903**

**Diplectanidae gen. sp. 1**

*Cheilotrema fasciatum*; adult; gills; marine; Lima (Oliva & Luque, 1998b).

**Diplectanidae gen. sp. 2**

*Cheilotrema fasciatum*; adult; gills; marine; Lima (Oliva & Luque, 1998b).

**Diplectanidae gen. sp. 3**

*Paralonchurus peruanus*; adult; gills; marine; Lima (Oliva & Luque, 1998b).

***Diplectanum decorum* Kritsky & Thatcher, 1984**

*Plagioscion squamosissimus*; adult; gills; freshwater; Loreto (Iannacone & Luque, 1993b).

***Diplectanum pescadae* Kritsky & Thatcher, 1984**

*Plagioscion squamosissimus*; adult; gills; freshwater; Loreto (Iannacone & Luque, 1993b).

***Diplectanum piscinarius* Kritsky & Thatcher, 1984**

*Plagioscion squamosissimus*; adult; gills; freshwater; Loreto (Iannacone & Luque, 1993b).

***Diplectanum* sp.**

*Cynoscion analis*, *Paralonchurus peruanus*, *Stellifer minor*; adult; gills;

marine; Lambayeque, Lima, Tumbes (Luque & Oliva, 1993a; Tantaleán & Huiza, 1994; Iannacone *et al.*, 2000; Iannacone *et al.*, 2001; Minaya *et al.*, 2016).

***Pseudorhabdosynochus jeanloui* Knoff, Cohen, Cárdenas, Cárdenas-Callirgos & Gomes, 2015**

*Paranthias colonus*; adult; gills; marine; Lima (Knoff *et al.*, 2015).

***Rhamnocercooides menticirrho* Luque & Iannacone, 1991**

*Menticirrhus ophicephalus*; adult; gills; marine; Lima (Luque & Iannacone, 1991a; Luque, 1994a; Oliva & Luque, 1998b).

***Rhamnocercus oliveri* Luque & Iannacone, 1991**

*Stellifer minor*; adult; gills; marine; Lima (Luque & Iannacone, 1991b; Iannacone, 2004).

***Rhamnocercus* sp.**

*Stellifer minor*; adult; gills; marine; La Libertad, Lambayeque, Lima (Oliva *et al.*, 1990; Luque *et al.*, 1991; Jara, 1998; Oliva & Luque, 1998b).

***Rhamnocercus stelliferi* Luque & Iannacone, 1991**

*Stellifer minor*; adult; gills; marine; Lima (Luque & Iannacone, 1991b; Iannacone, 2004).

**Family Tetraonchidae Monticelli, 1903**

***Tetraonchus monenteron* Diesing, 1858**

*Arapaima gigas*; adult; gills; freshwater; Loreto (Tantaleán *et al.*, 1985a).

***Tylosuricola amatoi* Iannacone & Luque, 1990**

*Strongylura scapularis*; adult; gills; marine; Lima (Iannacone & Luque, 1990).

**Order Dicybothriidea Bychowsky, 1957**

**Family Hexabothriidae Price, 1942**

***Callorhynchocotyle marplatensis* Suriano & Incorvaia, 1982**

*Callorhynchus callorhynchus*; adult; gills;

marine; Lima (Luque *et al.*, 1991; Luque & Iannacone, 1991b; Tantaleán & Huiza, 1994).

***Erpocotyle* sp.**

*Mustelus dorsalis*; adult; gills; marine; La Libertad, Lima, Piura (Tantaleán & Huiza, 1994).

***Rhinobatonchocotyle cyclovaginatus* Doran, 1953**

*Rhinobatos planiceps*; adult; gills; marine; Lima (Tantaleán *et al.*, 1998).

***Rhinobatonchocotyle pacifica* Oliva & Luque, 1995**

*Rhinobatos planiceps*; adult; gills; marine; Lima (Iannacone *et al.*, 2011a).

**Order Gyrodactylidea Bychowsky, 1937**

**Family Gyrodactylidae Van Beneden & Hesse, 1863**

***Accessorius peruensis* Jara, An & Cone, 1991**

*Lebiasina bimaculata*; adult; gills; freshwater; La Libertad (Jara *et al.*, 1990).

***Anacanthocotyle* sp.**

*Bryconamericus peruanus*; adult; gills; freshwater; La Libertad (Jara, 1986).

**Gyrodactylidae gen. sp.**

*Colossoma macropomum*; adult; gills; freshwater; Loreto (Alcántara-Bocanegra *et al.*, 2015).

***Gyrodactylus bimaculatus* An, Jara & Cone, 1991**

*Lebiasina bimaculata*; adult; gills; freshwater; La Libertad (An *et al.*, 1991).

***Gyrodactylus lebiasinus* An, Jara & Cone, 1991**

*Lebiasina bimaculata*; adult; body washings; freshwater; La Libertad (An *et al.*, 1991).

***Gyrodactylus pimelodellus* An, Jara & Cone, 1991**

*Pimelodella yuncensis*; adult; gills; freshwater; La Libertad (An *et al.*, 1991).

***Gyrodactylus slendrus* An, Jara & Cone, 1991**

*Lebiasina bimaculata*; adult; gills;

freshwater; La Libertad (An *et al.*, 1991).

***Gyrodactylus* sp.**

*Carassius auratus*, *Lebiasina bimaculata*, *Oreochromis* spp., *Trichomycterus punctulatus*; gills; tegument; freshwater; La Libertad, Lima (Jara & Escalante, 1984; Jara, 1986; Gonzáles-Fernández, 2012ab).

***Gyrodactylus turnbulli* Harris, 1986**

*Poecilia reticulata*; adult; gills; freshwater; La Libertad (An *et al.*, 1991).

***Oögyrodactylus farlowellae* Harris, 1983**

*Farlowella amazonum*; adult; skin, fins; freshwater; Loreto (Harris, 1983).

***Scleroductus yuncensi* Jara & Cone, 1989**

*Pimelodella yuncensis*; adult; gills; freshwater; La Libertad (Jara & Cone, 1989).

**Order Mazocraeidea Bychowsky, 1957**

**Family Allopyragraphoridae Yamaguti, 1963**

***Allopyragraphorus caballeroi* (Zerecero, 1960)**

*Caranx hippos*; adult; gills; marine; Ancash, La Libertad (Tantaleán *et al.*, 1988; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).

**Family Anthocotylidae Price, 1936**

***Anthocotyle americana* (MacCallum, 1916)**

*Merluccius gayi peruanus*; adult; gills; marine; Lima (Durán & Oliva, 1980; Verano *et al.*, 1990; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Chero *et al.*, 2014b).

***Anthocotyle merluccii* van Beneden & Hesse, 1863**

*Merluccius gayi peruanus*; adult; gills; marine; Lima (Durán & Oliva, 1980; Iannacone & Luque, 1990; Oliva & Ballón, 2002).

**Family Axinidae Monticelli, 1903**

***Axine ibanezi* Tantaleán, 1975**

*Exocoetus volitans*; adult; gills; marine;

- Lima (Tantaleán, 1975a; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).
- Loxura peruensis* Oliva & Luque, 1995**  
*Strongylura exilis*, *S. scapularis*; adult; gills; marine; Lima, Northern coastal zone (Escalante *et al.*, 1982b; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Oliva & Luque, 1995).
- Family Cemocotylidae Yamaguti, 1963**  
***Cemocotyle* sp.**  
*Trachurus murphyi*; adult; gills; marine; La Libertad, Piura (Tantaleán & Huiza, 1994).
- Cemocotyle trachuri* Dillon & Hargis, 1965**  
*Trachurus murphyi*; adult; gills; marine; Piura (Oliva, 1999).
- Family Chauhaneidae Euzet & Trilles, 1960**  
***Oaxacotyle oaxacensis* (Caballero & Bravo, 1964) Lebedev, 1984**  
*Peprilus medius*; *P. snyderi*; adult; gills; marine; Lima (Iannacone & Alvariano, 2008; Nacari & Sánchez, 2014).
- Family Diclidophoridae Cerfontaine, 1895**  
***Choricotyle anisotremi* Oliva, 1987**  
*Anisotremus scapularis*; adult; gills; marine; Lima (Iannacone & Alvariano, 2009b; Paschoal *et al.*, 2015).
- Choricotyle caulolatilii* (Meserve, 1938) Sproston, 1946**  
*Caulolatilus* sp.; adult; gills; marine; Ancash (Tantaleán *et al.*, 1985b; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).
- Choricotyle isaciencis* Oliva, González, Ruz & Luque, 2009**  
*Isacia conceptionis*; adult; gills; marine; Lima (Iannacone *et al.*, 2015).
- Choricotyle scapularis* Oliva, González, Ruz & Luque, 2009**  
*Anisotremus scapularis*; adult; gills; marine; Lima (Chero *et al.*, 2014d).
- Choricotyle sonorensis* Caballero & Bravo-Hollis, 1962**  
*Isacia conceptionis*, *Sardinops sagax*; adult; gills; marine; Ancash, Ica, La Libertad, Lima (Tantaleán *et al.*, 1988; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).
- Choricotyle* sp.**  
*Cilus gilberti*; adult; gills; marine; Lima (Chero *et al.*, 2014c).
- Hargicotyle chimbotensis* (Tantaleán, 1974)**  
*Paralonchurus peruanus*; adult; gills; marine; Ancash (Tantaleán, 1974ab; Tantaleán & Huiza, 1994).
- Hargicotyle louisianensis* (Hargis, 1955)**  
*Cilus gilberti*, *Sciaena deliciosa*; adult; gills; marine; Lima (Chero *et al.*, 2014ac).
- Hargicotyle magna* Oliva & Luque, 1989**  
*Cheilotrema fasciatum*; adult; gills; mouth; marine; Lima (Oliva & Luque, 1989b; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Oliva & Luque, 1998b).
- Hargicotyle menticirrho* Oliva & Luque, 1989**  
*Menticirrhus ophicephalus*; adult; gills; mouth; marine; Lima (Oliva & Luque, 1989b; Luque *et al.*, 1991; Luque 1994a; Tantaleán & Huiza, 1994; Oliva & Luque, 1998b).
- Hargicotyle paralonchuri* Oliva & Luque, 1989**  
*Cynoscion analis*, *Paralonchurus peruanus*; adult; gills; marine; Lima (Oliva & Luque, 1989b; Luque *et al.*, 1991; Luque & Oliva, 1993a; Tantaleán & Huiza, 1994; Oliva & Luque, 1998b; Iannacone *et al.*, 2001).
- Hargicotyle peruensis* (Tantaleán, 1974)**  
*Paralonchurus peruanus*, *Sciaena deliciosa*; adult; gills; marine; Ancash (Tantaleán, 1974b; Tantaleán & Huiza, 1994).
- Hargicotyle sciaenae* Oliva & Luque, 1989**  
*Sciaena deliciosa*; adult; gills; marine; Lima (Oliva & Luque, 1989b; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Oliva & Luque, 1998b; Iannacone *et al.*, 2010a).
- Hargicotyle* sp.**  
*Cynoscion analis*, *Sciaena deliciosa*; adult; gills; marine; Ica (Tantaleán & Huiza, 1994).



***Hemitagia galapagensis* (Meserve, 1938)**

*Paralabrax humeralis*; adult; gills; marine; La Libertad, Lima, Piura (Tantaleán *et al.*, 1982; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).

***Neoheterobothrium cynoscioni* (MacCallum, 1917)**

*Cynoscion analis*; adult; gills; marine; Ica, Lima, Tumbes (Tantaleán *et al.*, 1982; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Iannacone *et al.*, 2001; Minaya *et al.*, 2016).

***Paraeuryorchis sarmiento* (Tantaleán, 1974)**

*Seriolella violacea*; adult; gills; marine; Lima (Tantaleán, 1974b; Tantaleán *et al.*, 1985b; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Iannacone, 2003).

***Pedocotyle annakohni* Luque & Iannacone, 1989**

*Stellifer minor*; adult; gills; marine; Lima (Luque & Iannacone, 1989b; Oliva *et al.*, 1990; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Oliva & Luque, 1998b).

***Pedocotyle bravo* Luque & Iannacone, 1989**

*Stellifer minor*; adult; gills; marine; La Libertad, Lima, Northern coastal zone (Luque & Iannacone, 1989b; Oliva *et al.*, 1990; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Jara, 1998; Oliva & Luque, 1998b).

***Pedocotyle* sp.**

*Stellifer minor*; adult; gills; marine; Ica, Lambayeque (Tantaleán & Huiza, 1994).

***Pseudoeuryorchis travassosi* Caballero & Bravo-Hollis, 1962**

*Isacia conceptionis*; adult; gills; marine; Ica, Lima (Tantaleán *et al.*, 1985b; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Paschoal *et al.*, 2015; Iannacone *et al.*, 2015).

***Teleuryorchis gumercindae* González & Sarmiento, 1990**

*Schedophilus haedrichi*; adult; gills; marine; Ancash (González & Sarmiento, 1990; Luque *et al.*, 1991).

**Family Gastrocotylidae Price, 1943*****Pseudaxine* sp.**

*Scomberomorus sierra*; adult; unspecified site of infection; marine; La Libertad (Escalante *et al.*, 1982b).

**Family Heteraxinidae Unnithan, 1957*****Allencotyla mcintoshi* (Price, 1962)**

*Seriola lalandi*; adult; gills; marine; Ancash (Tantaleán *et al.*, 1988; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).

***Cynoscionicola americanus* Tantaleán, Martínez & Escalante, 1987**

*Cheilotrema fasciatum*, *Cilus gilbert*, *Menticirrhus ophicephalus*, *Paralonchurus peruanus*, *Stellifer minor*; adult; gills; marine; Ancash, Lima (Tantaleán *et al.*, 1987; Luque *et al.*, 1991; Luque & Oliva, 1993a; Luque, 1994a; Tantaleán & Huiza, 1994; Oliva & Luque, 1998b; Chero *et al.*, 2014c).

***Cynoscionicola cynoscioni* Tantaleán, Martínez & Escalante, 1987**

*Cynoscion analis*; adult; gills; marine; Ancash, Lima, Tumbes (Tantaleán *et al.*, 1987; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Iannacone *et al.*, 2001; Iannacone, 2005; Minaya *et al.*, 2016).

***Cynoscionicola intermedia* Tantaleán, Martínez & Escalante 1988**

*Xenistius peruanus*; adult; gills; marine; Ancash (Tantaleán *et al.*, 1988; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Paschoal *et al.*, 2015).

***Cynoscionicola sciaenae* Tantaleán, 1974**

*Sciaena deliciosa*; adult; gills; marine; Ica, Lima (Tantaleán, 1974a; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Oliva & Luque, 1998b; Iannacone *et al.*, 2010a; Chero *et al.*, 2014a).

***Cynoscionicola* sp.**

*Paralonchurus peruanus*, *Stellifer minor*; adult; gills; marine; Ica, Lima (Oliva *et al.*, 1989, 1990; Tantaleán & Huiza, 1994).

***Zeuxapta seriola* (Meserve, 1938)**

*Chloroscombrus orqueta*; adult; gills; marine; La Libertad, Lima (Tantaleán *et*

*al.*, 1985b; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).

**Family Macrovalvitremitidae Yamaguti, 1963**

***Macrovalvitrema* sp.**

*Sciaena deliciosa*; adult; gills; marine; Lima (Chero *et al.*, 2014a).

***Pterinotrematoides mexicanum* Caballero & Bravo-Hollis, 1955**

*Micropogonias* sp.; adult; gills; marine; Lima (Tantaleán *et al.*, 1985b; Tantaleán & Huiza, 1994).

**Family Mazocraeidae Price, 1936**

***Kuhnia indica* Tripathi, 1959**

*Scomber japonicus*; adult; gills; marine; Arequipa (Ruelas & Cordova, 1995).

***Kuhnia scombri* (Kuhn, 1829) Sproston, 1945**

*Scomber japonicus*; adult; gills; marine; Arequipa, Lambayeque, Lima (Tantaleán *et al.*, 1988; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Oliva *et al.*, 2008; Ruelas & Cordova, 1995).

***Kuhnia* sp.**

*Trachinotus paitensis*; adult; gills; marine; La Libertad (Jara, 1998).

***Kuhnia sprostonae* Price, 1961**

*Scomber japonicus*; adult; gills; marine; Ancash, Lambayeque, Lima (Tantaleán *et al.*, 1988; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Oliva *et al.*, 2008).

**Family Microcotylidae Taschenberg, 1879**

***Bicotylophora trachinoti* (MacCallum, 1921) Price, 1936**

*Trachinotus paitensis*; adult; gills; marine; Ica, Lima, Piura (Iannacone & Luque, 1990; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).

***Intracotyle neghmei* (Villalba, 1987) Oliva & Luque, 1995**

*Anisotremus scapularis*; adult; gills; marine; Lima (Oliva & Luque, 1995; Paschoal *et al.*, 2015).

***Jaliscia caballeroi* (Bravo-Hollis, 1960)**

**Mamaev & Egorova, 1977**

*Caulolatilus* sp.; adult; gills; marine; Lima (Tantaleán *et al.*, 1982; Tantaleán & Huiza, 1994).

***Metamicrocotyla macracantha* (Alexander, 1954) Koratha, 1955**

*Mugil cephalus*; adult; gills; marine; Ancash, Ica, Lima, Northern Coastal zone (Tantaleán, 1974a; Tantaleán *et al.*, 1982; Luque, 1994b; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Vásquez-Ruiz *et al.*, 2012).

***Microcotyle nemadactylus* Dillon & Hargis, 1965**

*Cheilodactylus variegatus*; adult; gills; marine; Lima (Martínez & Barrantes, 1977; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Oliva & Luque, 1998a; Iannacone *et al.*, 2003).

***Microcotyloides impudicus* Caballero, Bravo-Hollis & Grocott, 1955**

*Polydactylus approximans*; adult; gills; marine; Lima (Tantaleán & Huiza, 1994).

***Neobivagina chita* Tantaleán, Morales & Escalante, 1998**

*Anisotremus scapularis*; adult; intestine; marine; Lima (Tantaleán *et al.*, 1998; Iannacone & Alvarino, 2009; Chero *et al.*, 2014d; Paschoal *et al.*, 2015).

**Family Protomicrocotylidae Johnston & Tiegs, 1922**

***Neomicrocotyle* sp.**

*Caranx hippos*; adult; gills; marine; La Libertad, Piura (Tantaleán & Huiza, 1994).

**Family Pyragraphoridae Yamaguti, 1963**

***Pyragraphorus pyragraphorus* (MacCallum & MacCallum, 1913) Sproston, 1946**

*Trachinotus paitensis*; adult; unspecified site of infection; marine; Piura (Iannacone & Luque, 1990).

**Family Thoracocotylidae Price, 1936**

***Mexicotyle mexicana* (Meserve, 1938)**

*Scomberomorus sierra*; adult; gills;

marine; Ancash, Ica (Escalante *et al.*, 1982b; Tantaleán *et al.*, 1988; Tantaleán & Huiza, 1994).

***Thoracocotyle crocea* MacCallum, 1913**

*Scomberomorus sierra*; adult; gills; marine; Ica, La Libertad (Tantaleán *et al.*, 1985b; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).

**Order Monocotylidea Lebedev, 1988**

**Family Loimoidae Price, 1936**

***Loimos scoliodoni* (Manter, 1938)**

*Mustelus dorsalis*; adult; gills; marine; La Libertad, Piura (Tantaleán *et al.*, 1988; Tantaleán & Huiza, 1994).

***Loimos* sp.**

*Stellifer minor*; adult; gills; marine; La Libertad (Jara, 1998).

**Family Monocotylidae Taschenberg, 1879**

***Anoplocotyloides chorrillensis* Luque & Iannacone, 1991**

*Rhinobatos planiceps*; adult; gills; marine; Lima (Luque & Iannacone, 1991b).

***Anoplocotyloides papillatus* (Doran, 1953) Young, 1967**

*Rhinobatos planiceps*; adult; gills; marine; Lima (Luque & Iannacone, 1991b).

***Heterocotyle* sp.**

*Rhinobatos planiceps*; adult; gills; marine; La Libertad (Escalante *et al.*, 1982b; Tantaleán & Huiza, 1994).

***Potamotrygonocotyle chisholmae* Domingues & Marques, 2007**

*Potamotrygon motoro* adult; gills; freshwater; Madre de Dios (Domingues & Marques, 2011).

***Potamotrygonocotyle dromedarius* Domingues & Marques, 2007**

*Potamotrygon motoro*; adult; gills; freshwater; Madre de Dios (Domingues & Marques, 2011).

***Potamotrygonocotyle rionegrense* Domingues, Pancera & Marques, 2007**

*Potamotrygon* sp.; adult; gills; freshwater; Loreto (Domingues & Marques, 2011).

***Potamotrygonocotyle tsalickisi* Mayes, Brooks & Thorson, 1981**

*Potamotrygon* sp.; adult; gills; freshwater; Rio Madre de Dios (Domingues & Marques, 2011).

**Class Trematoda Rudolphi, 1808**

**Order Aspidogastrida Dollfus, 1958**

**Family Aspidogastridae Poche, 1907**

***Lobatostoma anisotremum* Oliva & Carvajal, 1984**

*Anisotremus scapularis*; adult; intestine, stomach; marine; Central Coast, Lima, Zona Sur (Moquegua-Tacna) (Ruelas & Córdova, 1995; Oliva & Luque, 1989a; Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Chero *et al.*, 2014d; Alves *et al.*, 2015b; Paschoal *et al.*, 2015).

***Lobatostoma kemostoma* (MacCallum & MacCallum, 1913)**

*Trachinotus paitensis*; adult; intestine; marine; Lima (Luque & Oliva, 1993b; Alves *et al.*, 2015b).

***Lobatostoma pacificum* Manter, 1940**

*Trachinotus paitensis*, *T. rhodopus*; adult; intestine; marine; Central Coast, La Libertad, Lima (Oliva & Luque, 1989a; Luque *et al.*, 1991; Tantaleán & Huiza, 1994, Jara, 1998; Alves *et al.*, 2015b).

***Lobatostoma* sp.**

*Peprilus medius*, *Trachinotus paitensis*; adult; intestine; marine; La Libertad, Lima (Iannacone & Alvaríño, 2008).

***Lobatostoma veranoi* Oliva & Luque, 1989**

*Menticirrhus ophicephalus*; adult; intestine; marine; Central Coast, Lima (Oliva & Luque, 1989ab; Luque *et al.*, 1991; Luque, 1994a; Tantaleán & Huiza, 1994; Alves *et al.*, 2015b).

**Order Plagiorchiida La Rue, 1957**

**Family Allocradiidae Looss, 1902**

***Auriculostoma foliaceum* Curran, Tkach &**

**Overstreet, 2011**

*Bryconops caudomaculatus*; adult; intestine; freshwater; Loreto (Curran *et al.*, 2011).

***Auriculostoma diagonale* Curran, Tkach & Overstreet, 2011**

*Stethaprion erythrospis*; adult; intestine; freshwater; Loreto (Curran *et al.*, 2011)

**Family Opecoelidae Ozaki, 1925*****Anisoporus* sp.**

*Paralichthys woolmani*; adult; intestine; marine; La Libertad (Luque *et al.*, 1991; Tantaleán & Huiza, 1994).

***Bunoderina* sp.**

*Brycon atrocaudatus*; adult; intestine; freshwater; La Libertad (Jara *et al.*, 1997).

***Cainocreadium* sp.**

*Paralichthys adspersus*, *Stellifer minor*; adult; intestine, pyloric caecum; marine; Lambayeque, Lima (Tantaleán & Huiza, 1994; Iannacone *et al.*, 2012a).

***Helicometra fasciata* (Rudolphi, 1819) Odhner, 1902**

*Cheilotrema fasciatum*, *Cilus gilberti*, *Gymnothorax porphyreus*, *Labrisomus philippii*, *Lepophidium* sp., *Menticirrhus ophicephalus*, *Paralabrax humeralis*, *Paralonchurus peruanus*, *Sciaena deliciosa*, *Stellifer minor*; adult; intestine; marine; Arequipa, Ica, La Libertad, Lima (Tantaleán *et al.*, 1975; Luque *et al.*, 1991; Luque & Oliva, 1993ab; Luque, 1994a; Tantaleán & Huiza, 1994; Jara, 1998; Oliva & Luque, 1998b, 2002; Iannacone, 2004; Iannacone *et al.*, 2010a; Iannacone *et al.*, 2011b; Chero *et al.*, 2014ac)

***Helicometrina nimia* Linton, 1910**

*Sebastes capensis*, *Sicyases sanguineus*; adult; intestine; marine; Lima (González & Poulin, 2005; González *et al.*, 2006; Iannacone & Alvaríño, 2011).

***Helicometrina* sp.**

*Acanthistius pictus*, *Paralabrax humeralis*; adult; intestine; marine; Arequipa, Lima (Tantaleán & Huiza, 1994).

***Notoporus* sp.**

*Orthopristis chalceus*; adult; intestine; marine; Northern coastal zone (Escalante *et al.*, 1984; Tantaleán & Huiza, 1994; Paschoal *et al.*, 2015).

***Plagioporus* sp.**

*Cilus gilberti*; adult; intestine; marine; Lima (Chero *et al.*, 2014c).

***Pseudopecoelus* sp.**

*Sebastes capensis*; adult; intestine; marine; Lima (González & Poulin, 2005; González *et al.*, 2006).

***Sphaerostoma* sp.**

*Aequidens rivulatus*; adult; intestine; freshwater; La Libertad (Jara, 1997; Jara *et al.*, 1998).

***Villarrealina peruana* Bolaños & Salas, 1982**

*Cilus gilberti*, *Sciaena deliciosa*; adult; intestine; marine; Lima (Luque *et al.*, 1991; Tantaleán & Huiza, 1994; Chero *et al.*, 2014c).

**Family Azygiidae Lühe, 1909*****Otodistomum veliporum* (Creplin, 1837) Stafford, 1934**

*Squatina armata*, *Sympterygia brevicaudata*; adult; coelomic cavity, stomach; marine; Ancash, La Libertad (Escalante & Jara, 1983; Tantaleán, 1991; Tantaleán & Huiza, 1994).

**Family Bucephalidae Poche, 1907*****Bucephalus* sp.**

*Labrisomus philippii*; adult; larvae; stomach; muscles; marine; Lima (Oliva & Luque, 2002; Cruces *et al.*, 2015).

***Dollfustrema* sp.**

*Strongylura scapularis*; intestine; marine; Northern coastal zone (Escalante *et al.*, 1984a; Tantaleán & Huiza, 1994).

***Prosorhynchoides carvajali* Munoz & Bott, 2011**

*Labrisomus philippii*; adult; intestine; stomach; marine; Lima (Cruces *et al.*, 2015).

***Prosorhynchoides rioplatensis* (Szidat, 1970) Lunaschi, 2003**

*Labrisomus philippii*; adult; intestine; marine;  
Lima (Iannacone *et al.*, 2011b)

***Prosorhynchoides* sp.**

*Labrisomus philippii*, *Odontesthes regia*, *Paralichthys adspersus*, *Sicyases sanguineus*; adult; intestine, muscles; marine; Lambayeque, Lima, Northern coastal zone, Piura (Escalante *et al.*, 1984b; Tantaleán & Huiza, 1994; Oliva & Luque, 2002).

***Prosorhynchus* sp.**

*Alphestes afer*, *Katsuwonus pelamis*, *Labrisomus philippii*, *Merluccius gayi peruanus*, *Scartichthys gigas*; adult, larvae; caecum intestine, muscles; marine; Ancash, La Libertad, Lima (Durán & Oliva, 1980; Escalante & Jara, 1983; Escalante *et al.*, 1984a; Luque, 1991; Tantaleán & Huiza, 1994; Oliva & Luque, 2002).

***Rhipidocotyle adbaculum* Manter, 1940**

*Sarda chiliensis*; adult; stomach; marine; Lima (Luque *et al.*, 1991; Tantaleán & Huiza, 1994).

***Rhipidocotyle* sp.**

*Sarda chiliensis*; *Cilus gilberti*; adult; intestine; marine; Arequipa (Tantaleán & Huiza, 1994).

**Family Echinostomatidae Looss, 1899**

***Caballerotrema arapaimense* Thatcher, 1980**

*Arapaima gigas*; adult; intestine; freshwater; Loreto (Mathews *et al.*, 2013a).

***Caballerotrema brasiliense* Prudhoe, 1960**

*Arapaima gigas*; adult; intestine; freshwater; Loreto (Serrano-Martínez *et al.*, 2015).

**Family Gorgoderidae Looss, 1899**

***Anaporrhutum albidum* Brandes in Ofenheim, 1900**

*Myliobatis peruvianus*; adult; intestine, visceral cavity; marine; Ancash, Lima (Escalante *et al.*, 1983; Tantaleán & Rodríguez, 1987; Tantaleán & Huiza,

1994).

***Anaporrhutum* sp.**

*Scomberomorus sierra*; adult; abdominal cavity; marine; Piura (Tantaleán & Huiza, 1994).

***Nagmia peruviana* Tantaleán & Rodríguez, 1990**

*Mobula thurstoni*; adult; visceral cavity; marine; Ancash, Lima (Escalante *et al.*, 1983; Tantaleán & Rodríguez, 1990; Tantaleán & Huiza, 1994).

***Phyllodistomum* sp.**

*Pseudoplatystoma fasciatum*, *Trachinotus paitensis*; adult; kidney, urinary bladder; freshwater, marine; La Libertad, Loreto (Tantaleán *et al.*, 1985b; Tantaleán & Huiza, 1994).

**Family Fellodistomidae Nicoll, 1909**

***Monascus* sp.**

*Trachurus murphyi*; adult; intestine; marine; Lambayeque, Piura, (Tantaleán & Huiza, 1994).

***Proctoeces lintoni* Siddiqi & Cable, 1960**

*Anisotremus scapularis*, *Isacia conceptionis*, *Sicyases sanguineus*; adult; intestine; marine; Lima (Luque & Oliva, 1993b; Iannacone & Alvarino, 2009b; 2011; Paschoal *et al.*, 2015; Iannacone *et al.*, 2015).

***Proctoeces* sp.**

*Anisotremus scapularis*, *Isacia conceptionis*, *Sicyases sanguineus*; adult; gills, intestine; marine; Ica, La Libertad, Lima, (Escalante *et al.*, 1984a; Tantaleán *et al.*, 1992; Tantaleán & Huiza, 1994; Chero *et al.*, 2014d; Paschoal *et al.*, 2015).

**Family Haploporidae Nicoll, 1914**

***Dicrogaster* sp.**

*Mugil cephalus*; adult; intestine; freshwater; La Libertad (Tantaleán *et al.*, 1985a; Jara, 1997).

***Lecithobotrioides elongatus* Thatcher, 1999**

*Prochilodus nigricans*; adult; intestine; freshwater; Loreto (Mathews *et al.*, 2013b).

***Metamegasolena* sp.**

*Scartichthys gigas*; adult; intestine; marine; Lima (Tarmeño *et al.*, 2015).

***Saccocoelium* sp.**

*Mugil cephalus*; adult; intestine; freshwater; La Libertad (Tantaleán *et al.*, 1985a).

***Saccocoeloides* sp.**

*Mugil cephalus*; adult; intestine; freshwater; La Libertad (Tantaleán *et al.*, 1985a).

**Family Haplospalchnidae Poche, 1926*****Hymenocotta manteri* Overstreet, 1969**

*Mugil cephalus*; adult; intestine; marine; Ancash, Lima (González & Sarmiento, 1986; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).

**Family Accacoeliidae Odhner, 1911*****Accacladocoelium alveolatum* Robinson, 1934**

*Mola mola*; adult; intestine; marine; Lima (Tantaleán & Huiza, 1994).

***Accacoelium* sp.**

*Brama japonica*; adult; operculum; marine; Lima (Iannacone & Alvarino, 2013).

**Family Bathycotyliidae Dollfus, 1932*****Bathycotyle branchialis* Darr, 1902**

*Coryphaena hippurus*; adult; intestine; marine; Lima (López & Tantaleán, 1985; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).

**Family Derogenidae Nicoll, 1910*****Gonocercella pacifica* Manter, 1940**

*Trachinotus paitensis*; adult; intestine; marine; Lima (Luque & Oliva, 1993b).

***Gonocercella* sp.**

*Anisotremus scapularis*; adult; intestine; marine; Zona Sur (Moquegua-Tacna) (Ruelas & Córdova, 1995).

***Gonocerca* sp.**

*Trachinotus paitensis*; adult; intestine; marine, La Libertad (Jara, 1998).

***Derogenes varicus* (Müller, 1784) Looss, 1901**

*Merluccius gayi peruanus*; adult; intestine; marine; Lima (Chero *et al.*, 2014b).

***Genarchella overstreeti* (Brooks, Mayes & Thorson, 1979) Lunaschi, 1989**

*Hoplías malabaricus*, adult; intestine; freshwater; Loreto, Madre de Dios (Iannacone & Luque, 1993b).

**Family Didymozoidae Monticelli, 1888*****Didymozoida* gen. sp.**

*Cilus gilberti*; larvae; intestine; marine; Lima (Chero *et al.*, 2014c).

***Didimozoida* gen. sp.**

*Scomber japonicus*; adult; mesentery; marine; La Libertad (Cruces *et al.*, 2014).

***Brasicystis bennetti* Thatcher, 1979**

*Plagioscion squamosissimus*; adult; intestine; freshwater; Loreto (Iannacone & Luque, 1993b).

***Didymocystis* sp.**

*Scomber japonicus*; adult; unspecified site of infection; marine; Lima (Oliva *et al.*, 2008).

***Didymoproblema* sp.**

*Katsuwonus pelamis*; adult; gills; marine; North Zone (Tantaleán & Huiza, 1994).

***Didymozoon* sp.**

*Brama japonica*; *Scomberomorus sierra*; adult; intestine, operculum; marine; Lima, Northern coastal zone (Tantaleán & Huiza, 1994; Iannacone & Alvarino, 2013).

***Koellikeria filicollis* (Rudolphi, 1819)**

*Brama japonica*; adult; general cavity; marine; Lima (Iannacone & Alvarino, 2013).

***Koellikeria* sp.**

*Scomber japonicus*; adult; mesentery; marine; La Libertad (Cruces *et al.*, 2014).

***Koellikerioides* sp.**

*Sarda chiliensis*; adult; intestine; marine; Arequipa (Tantaleán & Huiza, 1994).

***Maccallumtrema* sp.**

*Scomber japonicus*; adult; mesentery;

- marine; La Libertad (Cruces *et al.*, 2014).
- Metanematobothrium* sp.**  
*Sarda chiliensis*; adult; gills; marine; Arequipa (Tantaleán & Huiza, 1994).
- Nematobothrium scombri* (Taschenberg, 1879)**  
*Scomber japonicus*; adult; gills, ovary, internal face of operculum; marine; La Libertad, Lima (Tantaleán & Huiza, 1994; Cruces *et al.*, 2014).
- Nematobothriinae* gen. sp.**  
*Scomber japonicus*; adult; gonads; marine; Lambayeque (Tantaleán & Huiza, 1994).
- Ovarionematobothrium saba* Kamegai & Shimazu, 1982**  
*Scomber japonicus*; adult; gonads; marine; La Libertad, Lima (Oliva *et al.*, 2008; Cruces *et al.*, 2014).
- Unitubulotestis pelamydis* (Taschenburg, 1879)**  
*Sarda chiliensis*; adult; gills; marine; Lima (Chero *et al.*, 2015b)
- Unitubulotestis* sp.**  
*Sarda chiliensis*, *Scomber japonicus*; adult; internal face of operculum; marine; Northern coastal zone (Tantaleán & Huiza, 1994).
- Family Hemiuridae Looss, 1899**
- Dinurus longisinus* Looss, 1907**  
*Coryphaena hippurus*; adult; stomach; marine; Lima, Northern Coastal zone (López & Tantaleán, 1985; Tantaleán & Huiza, 1994; Vásquez-Ruiz *et al.*, 2012).
- Dinurus* sp.**  
*Coryphaena hippurus*, *Trachinotus paitensis*; adult; digestive tract, stomach; marine; Arequipa, La Libertad, Moquegua, Tacna (Tantaleán & Huiza, 1994; Jara, 1998).
- Ectenurus* sp.**  
*Alphestes afer*, *Trachinotus rhodopus*; adult; intestine, stomach; marine; La Libertad (Tantaleán & Huiza, 1994).
- Lecithochirium callaoensis* Luque & Oliva, 1993**  
*Gymnothorax porphyreus*; adult; intestine; marine; Lima (Luque & Oliva, 1993b).
- Lecithochirium genypteri* Manter, 1954**  
*Merluccius gayi peruanus*; adult; intestine; marine; Lima (Chero *et al.*, 2014b).
- Lecithochirium macrorchis* (Crowcroft, 1946)**  
*Labrisomus philippii*; adult; gonads; intestine; stomach; marine; Lima (Cruces *et al.*, 2015).
- Lecithochirium muraenae* Manter, 1940**  
*Gymnothorax porphyreus*; adult; stomach; marine; Lima (Tantaleán & Huiza, 1994).
- Lecithochirium* sp.**  
*Centropomus nigrescens*, *Labrisomus philippii*; adult; digestive tract, intestine, stomach; marine; Arequipa, Ancash, Lima, Moquegua, Tacna (Rivera & Sarmiento, 1990a; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).
- Lecithocladium cristatum* (Rudolphi, 1819) Looss, 1907**  
*Peprilus snyderi*, *Seriolella violácea*, *Stromateus stellatus*; adult; intestine; marine; Lima (Luque & Oliva, 1993b; Iannacone *et al.*, 2010; Ñacari & Sánchez, 2014).
- Lecithocladium* sp.**  
*Centropomus nigrescens*, *Peprilus medius*, *Seriolella violácea*, *Trachinotus paitensis*; adult; intestine; marine; Arequipa, Ancash, La Libertad, Lima, Moquegua, Tacna (Tantaleán & Huiza, 1994; Jara, 1998; Iannacone & Alvaríño, 2008).
- Myosaccium* sp.**  
*Alphestes afer*; adult; intestine; marine; La Libertad (Tantaleán & Huiza, 1994).
- Parahemiurus* sp.**  
*Centropomus nigrescens*, *Trachinotus rhodopus*; adult; intestine, stomach; marine; Ancash, La Libertad (Tantaleán & Huiza, 1994).

**Family Lecithasteridae Odhner, 1905*****Aponurus* sp.**

*Alphestes afer*; adult; intestine; marine; La Libertad (Tantaleán & Huiza, 1994).

**Lecithasteridae gen. sp.**

*Sicyases sanguineus*; adult; intestine; marine; Lima (Iannacone & Alvarino, 2011).

**Family Syncoeliidae Looss, 1899*****Copiatestes filiferus* (Leuckart, 1885)**

*Hemilutjanus macrophthalmos*; adult; intestine; marine; Lima (Tantaleán & Lefevre, 2004).

**Family Apocreadiidae Skrjabin, 1942*****Myzotus* sp.**

*Caulolatilus affinis*, *Coryphaena hippurus*; adult; intestine; marine; Northern coastal zone (Escalante *et al.*, 1984a; Tantaleán & Huiza, 1994; Vásquez-Ruiz *et al.*, 2012).

**Family Lepocreadiidae Odhner, 1905*****Lepocreadium trachinoti* Wang, 1987**

*Scartichthys gigas*; adult; intestine; marine; Lima (Tarmeño *et al.*, 2015).

***Lepidapedon* sp.**

*Peprilus snyderi*; adult; intestine; marine; Lima (Ñacari & Sánchez, 2014).

***Opechona bacillaris* (Molin, 1859) Dolfus, 1927**

*Peprilus medius*; adult; unspecified site of infection; marine; Lima (Iannacone & Alvarino, 2008).

***Opechona pharyngodactyla* Manter, 1940**

*Peprilus snyderi*; adult; intestine; marine; Lima (Ñacari & Sánchez, 2014).

***Prodistomum orientalis* (Layman, 1930) Bray & Gibson, 1990**

*Scomber japonicus*; adult; caecum; marine; La Libertad (Cruces *et al.*, 2014).

**Family Zoogonidae Odhner, 1902*****Diphtherostomum brusinae* (Stossich, 1888)****Stossich, 1903**

*Isacia conceptionis*; adult; intestine;

marine; Lima (Luque & Oliva, 1993b).

***Diphtherostomum* sp.**

*Anisotremus scapularis*; adult; intestine; marine; Lambayeque, Lima, Piura (Tantaleán *et al.*, 1992; Tantaleán & Huiza, 1994).

***Zoogonus dextrocirrus* Aldrich, 1961**

*Labrisomus philippii*, *Scartichthys gigas*; adult; stomach; marine; Lima (Cruces *et al.*, 2015; Tarmeño *et al.*, 2015).

***Zoogonus pagrosomi* Yamaguti, 1939**

*Merluccius gayi peruanus*; adult; intestine; marine; Lima (Rivera, 1992; Tantaleán & Huiza, 1994).

***Zoogonus rubellus* (Olsson, 1868) Odhner, 1902**

*Labrisomus philippii*, *Merluccius gayi peruanus*, *Scartichthys gigas*; adult; intestine; marine; Lima (Durán & Oliva, 1980; Luque & Oliva, 1993b; Oliva & Luque, 2002; Oliva & Ballón, 2002; Iannacone & Alvarino, 2003; Iannacone *et al.*, 2011b; Iannacone *et al.*, 2012b).

***Zoogonus* sp.**

*Merluccius gayi peruanus*, *Scartichthys gigas*; adult; intestine; marine; La Libertad, Lima (Durán & Oliva, 1980; Escalante *et al.*, 1984a; Tantaleán & Huiza, 1994).

**Family Monorchidae Odhner, 1911*****Lasiotocus glebulentus* Overstreet, 1971**

*Mugil cephalus*; adult; intestine; marine; Ancash, Lima (Luque *et al.*, 1991; Luque & Oliva, 1993b; Tantaleán & Huiza, 1994).

***Lasiotocus longicaecum* (Manter, 1940) Yamaguti, 1954**

*Anisotremus scapularis*; adult; intestine; marine; Lima (Luque & Oliva, 1993b; Paschoal *et al.*, 2015).

***Lasiotocus* sp.**

*Anisotremus scapularis*; adult; intestine; marine; Lima (Chero *et al.*, 2014d).

***Monorchis latus* Manter, 1942**

*Anisotremus scapularis*; adult; intestine; marine; Lima (Luque & Oliva, 1993b);



Paschoal *et al.*, 2015).

**Family Heterophyidae Leiper, 1909**

***Ascocotyle longa* Ransom, 1920**

*Mugil cephalus*; larvae; mesentery; freshwater; La Libertad, Lima (Armas, 1979; Jara & Escalante, 1982; Mateo *et al.*, 1985; Luque *et al.*, 1991).

***Centrocestus* sp.**

*Aequidens rivulatus*, *Xiphophorus hellerii*; larvae; gills; freshwater; La Libertad (Pais, 1996; Jara, 1997; Jara *et al.*, 1998).

***Heterophyes* sp.**

*Mugil cephalus*; larvae; muscles; freshwater; La Libertad (Armas, 1979).

***Pygidiopsis* sp.**

*Aequidens rivulatus*, *Bryconamericus peruanus*, *Trichomycterus dispar*; larvae; liver, mesentery; freshwater; La Libertad (Jara & Esacante, 1986; Jara *et al.*, 1990; Jara, 1997).

**Family Cladorchiidae Fiscoeder, 1901**

***Dadaytrema* sp.**

*Piaractus brachypomus*; adult; intestine; freshwater; Loreto (Tantaleán *et al.*, 1985a).

***Pseudocladorchis ferrumequinum* (Diesing, 1836)**

Doradidae gen. sp.; adult; intestine; freshwater; Ucayali (Tantaleán *et al.*, 1974).

**Order Diplostomida Olson, Cribb, Tkach, Bray & Littlewood, 2003**

**Family Callodistomidae Odhner, 1910**

***Prosthenhystera obesa* (Diesing, 1850) Travassos, 1922**

*Hoplias malabaricus*; adult; Gall bladder; freshwater; Loreto (Olson *et al.*, 2003; Tkach & Curran, 2015).

**Family Aporocotylidae Odhner, 1912**

***Aporocotyle garciai* Tantaleán & Martínez, 1990**

*Genypterus* sp.; adult; gill arteries; marine; Lima (Tantaleán & Martínez, 1990; Tantaleán & Huiza, 1994).

***Aporocotyle wilhelmi* Villalba & Fernández, 1986**

*Merluccius gayi peruanus*; adult; gills; marine; Lima (Martínez *et al.*, 2013; Chero *et al.*, 2014b).

***Aporocotyle* sp.**

*Merluccius gayi peruanus*; adult; gill arteries, heart; marine; Lima (Durán & Oliva, 1980; Luque *et al.*, 1991; Tantaleán & Huiza, 1994).

***Cladocaecum tomasscholzi* Oréllis-Ribeiro & Bullard, 2016**

*Ageneiosus inermis*; adult; heart; freshwater; Loreto (Oréllis-Ribeiro & Bullard, 2016).

***Kritskyia platyrhynchi* (Guidelli, Isaac & Pavanelli, 2002) Oréllis-Ribeiro & Bullard, 2016**

*Hemisorubim platyrhynchos*; adult; body cavity; freshwater; Loreto (Oréllis-Ribeiro & Bullard, 2016).

***Plehnella sabajperezii* Oréllis-Ribeiro & Bullard, 2015**

*Pimelodus blochii*; adult; body cavity; freshwater; Loreto (Oréllis-Ribeiro & Bullard, 2015).

**Family Cyathocotylidae Mühlhling, 1898**

***Mesostephanus* sp.**

*Mugil cephalus*; larvae; muscles; freshwater; La Libertad (Armas, 1979).

**Family Diplostomidae Poirier, 1886**

***Diplostomulum* sp.**

*Odontesthes bonariensis*, *Orestias albus*, *O. luteus*, *Orestias* sp.; larvae; brain; freshwater; Puno (Tantaleán *et al.*, 1974, 1975; Hurtado *et al.*, 1977).

***Neascus* sp.**

*Bryconamericus peruanus*; larvae; fins, skin; freshwater; Lambayeque (Tantaleán *et al.*, 1985a).

**Family Clinostomidae Lühe, 1901**

***Clinostomum marginatum* (Rudolphi, 1819)  
Braun, 1899**

*Trichomycterus piurae*; larvae; mesentery; freshwater; Ica, La Libertad (Tantaleán *et al.*, 1974).

***Clinostomum* sp.**

*Aequidens rivulatus*; larvae; operculum; freshwater; La Libertad (Jara, 1997; Jara *et al.*, 1998).

**HOST-PARASITE LIST****Actinopterygii (ray-finned fishes)**

- Ablennes hians* (Valenciennes, 1846) (Belontiidae): *Bomolochus constrictus*, *Caligodes laciniatus*, *Lernanthropus tylosuri*.
- Acanthistius pictus* (Tschudi, 1846) (Serranidae): *Helicometrina* sp.
- Aequidens rivulatus* (Günther, 1860) (Cichlidae): *Urocleidus* sp., *Procamallanus* (*Spirocamallanus*) sp., *Centrocestus* sp., *Clinostomum* sp., *Contracaecum* sp., *Pygidiopsis* sp., *Sphaerostoma* sp.
- Aequidens* sp. (Cichlidae): *Pandosentis iracundus*.
- Ageneiosus inermis* (Linnaeus, 1766) (Auchenipteridae): *Ageneiella* sp., *Cladocaecum tomassholzi*, *Gibsoniela mandube*.
- Ageneiosus* sp. (Auchenipteridae): *Gibsoniela mandube*.
- Ageneiosus vittatus* Steindachner, 1908 (Auchenipteridae): Dactylogyridae gen. sp.
- Aguarunichthys torosus* Stewart, 1986 (Pimelodidae): *Unibarra paranoplatensis*.
- Alphestes afer* (Bloch, 1793) (Serranidae): *Aponurus* sp., *Ectenurus* sp., *Myosaccium* sp., *Prosorhynchus* sp.
- Anisotremus scapularis* (Tschudi, 1846) (Haemulidae): *Adenocephalus pacificus*, *Choricotyle anisotremi*, *Ch. scapularis*, *Clavella applicata*, *Colobomatus quadrifarius*, *Cymothoa* sp., *Diphtherostomum* sp., *Encotyllabe antofagastensis*, *Gonocercella* sp., *Gorgorhynchus* sp., *Intracotyle neghmei*, *Lacistorhynchus tenuis*, *Lasiotocus longicaecum*, *Lasiotocus* sp., *Lernanthropus antofagastensis*, *Lobatostoma anisotremum*, *Metapeniculus anofagastensis*, *Mexicana* sp., *Monorchis latus*, *Neobivagina chita*, *Parabrachiella anisotremi*, *Philometra* sp., *Proctoeces* sp., *Proctoeces lintoni*, *Profilicollis altmani*, *Proleptus carvajali*.
- Aplodactylus punctatus* Valenciennes, 1832 (Aplodactylidae): *Encotyllabe* sp.
- Arapaima gigas* (Schinz, 1822) (Arapaimatidae): *Caballerotrema arapaimense*, *C. brasiliense*, *Dawestrema cycloancistrioides*, *D. cycloancistrum*, *Goezia spinulosa*, *Nesolecithus janicki*, *Nilonema senticosum*, *Schizochocerus liguloideus*, *Tetraonchus monenteron*.
- Ariopsis seemanni* (Günther, 1864) (Ariidae): *Adenocephalus pacificus*.
- Aspistogramma* sp. (Cichlidae): *Dactylogyrus* sp.
- Astronotus ocellatus* (Agassiz, 1831) (Cichlidae): *Contracaecum* sp., *Gussevia asota*, *Proteocephalus gibsoni*.
- Auxis thazard thazard* (Lacepède, 1800) (Scombridae): *Anilocra huacho*.
- Brachyplatystoma* cf. *filamentosum* (Lichtenstein, 1819) (Pimelodidae): *Amphoteromorphus ovalis*, *Endorchis piraeeba*, *Nomimoscolex suspectus*.
- Brachyplatystoma juruense* (Boulenger, 1898) (Pimelodidae): *Alinema amazonicum*, *Demidospermus mortenthaleri*.
- Brachyplatystoma rousseauxii* (Castelnau, 1855) (Pimelodidae): *Amphoteromorphus peniculus*, *A. piriformis*.
- Brachyplatystoma vaillantii* (Valenciennes, 1840) (Pimelodidae): *Chambriella* sp., *Demidospermus* sp., *Harriscolex piramutab*.
- Brama japonica* Hilgendorf, 1878 (Bramidae): *Accacoelium* sp., *Corynosoma* sp., *Contracaecum* sp., *Didymozoon* sp., *Hatschekia conifera*, *Hepatoxylon*

- trichiuri*, *Koellikeria filicollis*, *Nybelinia* sp.
- Brycon atrocaudatus* (Kner, 1863) (Characidae): *Bunoderina* sp., *Contraecum* sp., *Paracamallanus* sp.
- Brycon cephalus* (Günther, 1869) (Characidae): *Amplexibranchius bryconis*, *Capillaria* sp., *Jainus amazonensis*
- Bryconamericus peruanus* (Müller & Troschel, 1845) (Characidae): *Anacanthocotyle* sp., *Procamallanus* (*Spirocamallanus*) sp., *Neascus* sp., *Pygidiopsis* sp.
- Bryconops caudomaculatus* (Günther, 1864) (Characidae): *Auriculostoma foliaceum*.
- Calophysus macropterus* (Lichtenstein, 1819) (Pimelodidae): *Alinema amazonicum*, *Ameloblastella unapi*, *Demidospermus macropteri*, *Monticellia amazonica*, *Rudolphiella piracatinga*.
- Carassius auratus* (Linnaeus, 1758) (Cyprinidae): *Dactylogyrus* sp., *Gyrodactylus* sp., *Thellohanellus* sp., *Zschokkella* sp.
- Caranx hippos* (Linnaeus, 1766) (Carangidae): *Allopyrgraphorus caballeri*, *Neomicrocotyle* sp.
- Caulolatilus affinis* Gill, 1865 (Malacanthidae): *Myzotus* sp.
- Caulolatilus* sp. (Malacanthidae): *Choricotyle caulolatali*, *Jaliscia caballeri*.
- Centromochlus heckelii* (De Filippi, 1853) (Auchenipteridae): *Demidospermus centromochli*.
- Centropomus nigrescens* Günther, 1864 (Centropomidae): *Floriceps saccatus*, *Lecithochirium* sp., *Lecithocladium* sp., *Parahemiurus* sp., *Tentacularia coryphaena*.
- Chaetobranchius semifasciatus* Steindachner, 1875 (Cichlidae): *Gussevia tucunarensis*.
- Cheilodactylus variegatus* Valenciennes, 1833 (Cheilodactylidae): *Caligus cheilodactyli*, *Clavellotis dilatata*, *Lacistorhynchus tenuis*, *Macrophyllida antarctica*, *Microcotyle nemadactylus*.
- Cheilotrema fasciatum* Tschudi, 1846 (Sciaenidae): *Caligus callaoensis*, *Camallanus* sp., *Cynoscionicola americanus*, Diplectanidae gen. sp. 1, Diplectanidae gen. sp. 2, *Hargicotyle magna*, *Helicometra fasciata*, *Kudoa sciaenae*, *Lacistorhynchus dollfusi*, *Lacistorhynchus tenuis*, *Parabrachiella fasciata*.
- Cherublemma emmelas* (Gilbert, 1890) (Ophidiidae): *Chondracanthus leporidii*.
- Chloroscombrus orqueta* Jordan & Gilbert, 1883 (Carangidae): *Zeuxapta seriola*
- Cichla monoculus* Agassiz, 1831 (Cichlidae): *Gussevia longihaptor*, *G. undulata*, *Proteocephalus macrophallus*, *P. microscopicus*, *Sciadocephalus megalodiscus*, *Tucunarella cichlae*.
- Cichlasoma amazonarum* Kullander, 1983 (Cichlidae): *Dolops geayi*, *Gussevia disparoides*, Proteocephalidea gen. sp., *Sciadicleithrum variabilum*.
- Cichlasoma* sp. (Cichlidae): *Dactylogyrus* sp.
- Cilus gilberti* (Abbott, 1899) (Sciaenidae): *Adenocephalus pacificus*, *Anisakis* sp., *Callitetrarhynchus gracilis*, *Choricotyle* sp., *Corynosoma obtuscens*, *Cynoscionicola americanus*, *Dichelyne* (*Cucullanellus*) *elongatus*, Didymozoidae gen. sp., *Hargicotyle louisianensis*, *Helicometra fasciata*, *Lernanthropus pacificus*, *Parabrachiella* sp., Philometridae gen. sp., Piscicolidae gen. sp., *Plagioporus* sp., *Poecilancistrum caryophyllum*, *Proleptus carvajali*, *Raphidascaris* sp., *Rhipidocotyle* sp., *Villarrealina peruana*.
- Colossoma macropomum* (Cuvier, 1816) (Characidae): *Anacanthorus spathulatus*, Dactylogyridae gen. sp., Gyrodactylidae gen. sp., *Lernaea gamitanae*, Myxobolidae gen. sp., *Neoechinorhynchus* sp.
- Coryphaena hippurus* Linnaeus, 1758 (Coryphaenidae): *Adenocephalus*

- pacificus*, *Anisakis* sp., *Anisakis physeteris*, *Bathycotyle branchialis*, *Caligus coryphaenae*, *Caligus* sp., *Chondracanthus* sp., *Contraecum* sp., *Corynosoma obtuscens*, *Dinurus* sp., *Dinurus longisinus*, *Hysterothylacium* sp., *Hysterothylacium aduncum*, *H. pelagicum*, *Myzotus* sp., *Nybelinia* sp., *Pterobothrium acanthotruncatum*, “*Scolex pleuronectis*”, *Tentacularia coryphaenae*.
- Crenicichla anthurus* Cope, 1872 (Cichlidae): *Myxosporea* fam. gen. sp.
- Cubiceps caeruleus* Regan, 1914 (Nomeidae): *Anilocra huacho*.
- Cynoscion analis* (Jenyns, 1842) (Sciaenidae): *Adenocephalus pacificus*, *Anisakis* sp., *Ceratothoa gaudichaudii*, *Corynosoma obtuscens*, *Corynosoma* sp., *Cynoscionicola cynoscioni*, *Diplectanum* sp., *Hargicotyle* sp., *Hargicotyle paralonchuri*, *Lernanthropus Huamani*, *Lernanthropus* sp., *L. paralonchuri*, *Neoheterobothrium cynoscioni*, *Nybelinia* sp., *Otobothrium* sp., *Procamallanus* sp., *Tegorhynchus* sp.
- Cyprinus carpio carpio* Linnaeus, 1758 (Cyprinidae): *Dactylogyrus vastator*
- Duopalatinus* cf. *peruanus* Eigenmann & Allen, 1942 (Pimelodidae): *Sharpilosentis peruviansis*.
- Doradidae gen. sp.: *Pseudocladorchis ferrumequinum*.
- Ethmidium maculatum* (Valenciennes, 1847) (Clupeidae): *Contraecum* sp., “*Scolex pleuronectis*”.
- Exocoetus volitans* Linnaeus, 1758 (Exocoetidae): *Axine ibanezi*.
- Farlowella amazonum* (Günther, 1864) (Loricariidae): *Oögyrodactylus farlowellae*.
- Galeichthys peruvianus* Lütken, 1874 (Ariidae): *Adenocephalus pacificus*, *Anisakis* sp., *Ascarophis* sp., *Callitetrarhynchus gracilis*, *Corynosoma obtuscens*, *Hamaticolax galeichthyos*, *Hamatopeduncularia* sp., *Lacistorhynchus tenuis*, *Proleptus* sp.
- Galeichthys* sp. (Ariidae): *Lepeophtheirus marginatus*.
- Genypterus maculatus* (Tschudi, 1846) (Ophidiidae): *Adenocephalus pacificus*, “*Scolex pleuronectis*”.
- Genypterus* sp. (Ophidiidae): *Aporocotyle garciai*, *Neobenedenia* sp., *Pseudohaliotremas* sp.
- Geophagus steindachneri* Eigenmann & Hildebrand, 1922 (Cichlidae): *Cosmoxynemoides aguirrei*, *Ichthyouris ro*, *Pandosentis iracundus*.
- Goeldiella eques* (Müller & Troschel, 1849) (Heptapteridae): *Aphanoblastella aurorae*, *Aphanoblastella* sp., *Nupelia* sp.
- Gymnothorax porphyreus* (Guichenot, 1848) (Muraenidae): *Helicometra fasciata*, *Lecithochirium callaoensis*, *L. muraenae*.
- Haemulon steindachneri* (Jordan & Gilbert, 1882) (Haemulidae): *Mexicana iannaconi*.
- Hassar orestis* (Steindachner, 1875) (Doradidae): *Cosmetocleithrum* sp.
- Hassar* sp. (Doradidae): *Ameloblastella* sp.
- Hemanthias peruanus* (Steindachner, 1875) (Serranidae): *Bliaspriodonti*.
- Hemilutjanus macrophthalmos* (Tschudi, 1846) (Serranidae): *Callitetrarhynchus gracilis*, *Copiatestes filiferus*, *Glossobothrium* sp., *Gorgorhynchus* sp.
- Hemisorubim platyrhynchus* (Valenciennes, 1840) (Pimelodidae): *Chambriella paranaensis*, *Kritsky platyrhynchi*, *Mariauxiella piscatorum*, *Spatulifer maringaensis*, *Vancleaveus platyrhynchi*.
- Heros severus* Heckel, 1840 (Cichlidae): *Gussevia alioides*, *G. disparoides*.
- Hippoglossina bollmani* Gilbert, 1890 (Paralichthyidae): *Protochondria longicauda*.
- Hoplias malabaricus* (Bloch, 1794) (Erythrinidae): *Genarchella overstreeti*, *Prosthenhystera obesa*, *Urocleidoides eremitus*.
- Hypophthalmus edentatus* Spix & Agassiz, 1829 (Pimelodidae): *Ameloblastella* sp.

- Dactylogyridae gen. sp.
- Isacia conceptionis* (Cuvier, 1830) (Haemulidae): *Benedenia* sp., *Caligus* sp., *Choricotyle isaciensis*, *Ch. sonorensis*, *Clavella simplex*, *Corynosoma obtuscens*, *Diphtherostomum brusinae*, *Nybelinia* sp., *Parabrachiella kabatai*, *Proctoeces* sp., *Proctoeces lintoni*, *Proleptus carvajali*, *Pseudoeurysorchis travassosi*.
- Katsuwonus pelamis* (Linnaeus, 1758) (Scombridae): *Caligus coryphaenae*, *Caligus productus*, *Didymoproblema* sp., *Prosorhynchus* sp., “*Scolex pleuronectis*”, *Tentacularia coryphaenae*.
- Labrisomus philippii* (Steindachner, 1866) (Labrisomidae): *Acanthochondria sicyasis*, *Bucephalus* sp., *Corynosoma australe*, *C. obtuscens*, *Helicometra fasciata*, *Lacistorhynchus tenuis*, *Lecithochirium macrorchis*, *Lecithochirium* sp., *Lernaea* sp., *Myxosporea* gen. sp., Piscicolidae gen. sp., *Profilicollis altmani*, *Proleptus carvajali*, *Proleptus* sp., *Prosorhynchoides carvajali*, *Prosorhynchoides* sp., *P. rioplatensis*, *Prosorhynchus* sp., *Tegorhynchus* sp., *Zoogonus dextrocirrus*, *Z. rubellus*.
- Lebiasina bimaculata* Valenciennes, 1847 (Lebiasinidae): *Accessorius peruensis*, *Gyrodactylus bimaculatus*, *G. lebiasinus*, *Gyrodactylus slendrus*, *Gyrodactylus* sp., *Oncocleidus* sp., *Procamallanus (Spirocamallanus)* sp.
- Lepophidium* sp. (Ophidiidae): *Helicometra fasciata*
- Makaira nigricans* Lacepède, 1802 (Istiophoridae): *Gloiopotes watsoni*.
- Makaira* sp. (Istiophoridae): *Gloiopotes huttoni*
- Megalodoras uranoscopus* (Eigenmann & Eigenmann, 1888) (Doradidae): *Proteocephalus kuyukuyu*
- Megalonemaplatycephalum* Eigenmann, 1912 (Pimelodidae): *Monticellia santafesina*, *Menticirrhus ophicephalus* (Jenyns, 1840) (Sciaenidae): *Acanthocolax peruensis*, *Adenocephalus pacificus*, *Ascarophis* sp., *Ceratomyxa* sp., *Ceratothoa* sp., *Clavellotis dilatata*, *Cynoscioncola americanus*, *Hargicotyle menticirrho*, *Helicometra fasciata*, *Lernanthropus huamani*, *Lobatostoma veranoi*, *Parabrachiella menticirrho*, *Proleptus* sp., *Rhamnocercoides menticirrho*.
- Merluccius gayi peruanus* Ginsburg, 1954 (Merluccidae): *Adenocephalus pacificus*, *Anisakis* sp., *Anisakis simplex*, *Anthocotyle americana*, *A. merluccii*, *Aporocotyle* sp., *Aporocotyle wilhelmi*, *Argulus peruvianus*, *Bolbosoma* sp., *Brachiella* sp., *Caligus debueni*, *C. teres*, *Ceratomyxa limensis*, *Corynosoma obtuscens*, *Callitetrarhynchus gracilis*, *Chondracanthus* sp., *Clestopothrium crassiceps*, *Contraecaecum* sp., Diphyllobothridae gen. sp., *Derothenes varicus*, *Grillotia dollfusi*, *Kudoa peruviana*, *Lacistorhynchus tenuis*, *Lecithochirium genypteri*, *Lepeophtheirus* sp., *Myxosporea* gen. sp., *Nybelinia* sp., *Parabrachiella insidiosa*, *Prosorhynchus* sp., *Tentacularia coryphaenae*, *Zoogonus* sp., *Zoogonus pagrosomi*, *Z. rubellus*.
- Micropogonias* sp. (Sciaenidae): *Pterinotrematoides mexicanum*.
- Mola mola* (Linnaeus, 1758) (Molidae): *Accacladocoelium alveolatum*, *Ancistrocephalus microcephalus*, *Fistulicolaplicatus*.
- Mugil cephalus* Linnaeus, 1758 (Mugilidae): *Ascocotyle longa*, *Bomolochus nitidus*, *Contraecaecum* sp., *Contraecaecum multipapillatum*, *Dicrogaster* sp., *Ergasilus* sp., *Haliotrema mugilinus*, *Heterophyes* sp., *Hymenocotta manteri*, *Lacistorhynchus tenuis*, *Lasiotocus glebulentus*, *Lernanthropus pacificus*, *Mesostephanus* sp., *Metamicrocotyla macracantha*, *Myxobolus exiguus*, *Naobranchia lizae*,

- Neobenedenia* sp., *Parabrachiella exilis*, *Saccocoelium* sp., *Saccocoeloides* sp.
- Mugil curema* Valenciennes, 1836 (Mugilidae): *Contracaecum* sp.
- Myleus schomburgkii* (Jardine, 1841) (Serrasalmidae): *Anacanthorus* sp., *Notozothecium bethae*, *Notozothecium* sp.
- Nezumia stelgidolepis* (Gilbert, 1890) (Macrouridae): *Lophoura unilobulata*.
- Odontesthes bonariensis* Valenciennes (Atherinopsidae): *Diplostomulum* sp., *Hedruris basilichtensis*, *Ligula intestinalis*, *Perunema escomeli*.
- Odontesthes regia* (Humboldt, 1821) (Atherinopsidae): *Corynosoma obtuscens*, *Corynosoma* sp., *Kudoa sarmientae*, *Kudoa* sp., *Lacistorhynchus tenuis*, *Prosorhynchoides* sp., “*Scolex pleuronectis*”.
- Ophidiidae gen. sp.: *Neobenedenia* sp.
- Oreochromis niloticus* (Linnaeus, 1758) (Cichlidae): *Contracaecum* sp., *Polymorphus spindlatus*.
- Oreochromis* spp. (Cichlidae): *Gyrodactylus* sp.
- Orestias agassizii* Valenciennes, 1846 (Cyprinodontidae): *Polymorphus spindlatus*.
- Orestias albus* Valenciennes, 1846 (Cyprinodontidae): *Contracaecum* sp., *Diplostomulum* sp., *Hedruris basilichtensis*, *Ligula intestinalis*, *Proteocephalus* sp.
- Orestias luteus* Valenciennes, 1846 (Cyprinodontidae): *Contracaecum* sp., *Diplostomulum* sp., *Falcaustra pumacahuai*, *F. tiahuanacuensis*, *Hedruris basilichtensis*, *H. orestiae*, *Ligula intestinalis*, *Polymorphus spindlatus*, *Proteocephalus* sp.
- Orestias mulleri* Valenciennes, 1846 (Cyprinodontidae): *Hedruris orestiae*, *Polymorphus spindlatus*.
- Orestias olivaceus* Garman, 1895 (Cyprinodontidae): *Polymorphus spindlatus*
- Orestias* sp. (Cyprinodontidae): *Diplostomulum* sp., *Ligula intestinalis*, *Polymorphus spindlatus*.
- Orthopristis chalceus* (Günther, 1864) (Haemulidae): *Calceostoma* sp., *Notoporus* sp.
- Osteoglossum bicirrhosum* (Cuvier, 1829) (Osteoglossidae): *Camallanus (Camallanus) acaudatus*, *Gonocleithrum cursitans*.
- Oxydoras niger* (Valenciennes, 1821) (Doradidae): *Cosmetocleithrum confusus*, *C. gussevi*, *C. sobrinus*, *Cucullanus (Cucullanus) grandistomis*, *Paracavisoma impudica*, *Proteocephalus hobergi*, *Raphidacaroides* sp., *Sharpilosentis peruviensis*.
- Paralabrax humeralis* (Valenciennes, 1828) (Serranidae): *Adenocephalus pacificus*, *Caligus quadratus*, *Callitetrarhynchus gracilis*, *Corynosoma obtuscens*, *Corynosoma* sp., *Dichelyne (Cucullanellus) sp.*, *Grillotia* sp., *Hamaticolax paralabraxis*, *Hatschekia amphiprocesa*, *Helicometra fasciata*, *Helicometrina* sp., *Hemitagia galapagensis*, *Philometra* sp., *Trypanorhyncha* gen. sp.
- Paralichthys adspersus* (Steindachner, 1867) (Paralichthyidae): *Adenocephalus pacificus*, *Anisakis* sp., *Bomolochus* sp., *Cainocreadium* sp., *Contracaecum* sp., *Corynosoma obtuscens*, *Corynosoma* sp., *Hysterothylacium* sp., *Lacistorhynchus tenuis*, *Lepeophtheirus edwardsi*, *Parabrachiella paralichthyos*, *Philometra* sp., *Prosorhynchoides* sp.
- Paralichthys woolmani* Jordan & Williams, 1897 (Paralichthyidae): *Anisoporus* sp.
- Paralonchurus peruanus* (Steindachner, 1875) (Sciaenidae): *Acanthocolax peruensis*, *Adenocephalus pacificus*, *Anisakis* sp., *Caligus callaoensis*, *Callitetrarhynchus gracilis*, *Ceratothoa* sp., *Clavellopsis* sp., *Corynosoma australe*, *C. obtuscens*, *Corynosoma* sp., *Cynoscionicola* sp., *Cynoscionicola americanus*, *Dichelyne (Cucullanellus) amaruincai*,

- Diplectanum* sp., Diplectanidae gen. sp., *Encotyllabe callaoensis*, *Euryhaliotrema paralonchuri*, *Hargicotyle chimbotensis*, *H. paralonchuri*, *H. peruensis*, *Helicometra fasciata*, *Henneguya* sp., *Kudoa sciaenae*, *Lacistorhynchus tenuis*, *Lernanthropus paralonchuri*, *Nybelinia* sp., *Parabrachiella chevreuxii*, Piscicolidae gen. sp., *Pterobothrium acanthotruncatum*, *Pterobothrium* sp., *Tegorhynchus* sp.
- Paranthias colonus* (Valenciennes, 1846) (Serranidae): *Pseudorhabdosynochus jeanloui*.
- Parapsettus panamensis* (Steindachner, 1876) (Ephippidae): *Parancylodiscoides chaetodipteri*.
- Peprilus medius* (Peters, 1869) (Stromateidae): *Bomolochus* sp., *Caligus* sp., *Ceratothoa gaudichaudii*, *Lecithocladium* sp., *Lobatostoma* sp., *Oaxacotyle oaxacensis*, *Opechona bacillaris*.
- Peprilus snyderi* Gilbert & Starks, 1904 (Stromateidae): *Anisakis* sp., *Hysterothylacium* sp., *Lecithocladium cristatum*, *Lepidapedon* sp. *Oaxacotyle oaxacensis*, *Opechona pharyngodactyla*, *Rusguniella* sp.
- Perrunichthys perruno* Schultz, 1944 (Pimelodidae): *Alinema amazonicum*.
- Phractocephalus hemioliopterus* (Bloch & Schneider, 1801) (Pimelodidae): *Chambriella* sp., Monticelliinae gen. sp., *Proteocephalus hemioliopteri*, *Proteocephalus* sp., *Scholzia emarginata*, *Zygobothrium megacephalum*.
- Piaractus brachypomus* (Cuvier, 1818) (Characidae): *Dadaytrema* sp., *Mymarothecium viatorum*; *Myxobolus* sp.
- Pimelodella yuncensis* Steindachner, 1902 (Heptapteridae): *Cleidodiscus* sp., *Demidospermus curvovaginatus*, *D. peruvianus*, *Gyrodactylus pimelodellus*, *Scleroductus yuncensi*.
- Pimelodidae gen. sp.: *Demidospermus curvovaginatus*, *D. peruvianus*.
- Pimelodus altissimus* Eigenmann & Pearson, 1942 (Pimelodidae): *Endorchis* sp.
- Pimelodus blochii* Valenciennes, 1840 (Pimelodidae): *Demidospermus lebedev*, *D. peruvianus*, *D. striatus*, *Plehiella sabajperezi*, *Proteocephalus* sp.
- Pimelodus ornatus* Kner, 1858 (Pimelodidae): *Demidospermus peruvianus*, *Nomimoscolex* sp.
- Pimelodus maculatus* Lacepède, 1803 (Pimelodidae): *Procamallanus (Spirocamallanus) rarus*.
- Pimelodus* sp. (Pimelodidae): *Demidospermus brevicirrus*, *D. curvovaginatus*, *D. lebedev*, *D. peruvianus*, *D. striatus*.
- Pinirampus pirinampu* (Spix & Agassiz, 1829) (Pimelodidae): *Monticellia ventrei*, *Nomimoscolex admonticellia*, *Rudolphiella* sp.
- Plagioscion squamosissimus* (Heckel, 1840) (Sciaenidae): *Brasicystis bennetti*, *Diplectanum decorum*, *D. pescadae*, *D. piscinarius*, *Euryhaliotrema chaoi*, *Euryhaliotrema lovejoyi*, *E. monacanthus*, *E. potamocetes*, *Euryhaliotrema succedanus*, *E. thatcheri*, *Rhadinorhynchus plagioscionis*.
- Platynematichthys notatus* (Jardine, 1841) (Pimelodidae): *Brayela karuatayi*, Dactylogyridae gen. sp.
- Platysilurus mucosus* (Vaillant, 1880) (Pimelodidae): Dactylogyridae gen. sp.
- Poecilia reticulata* Peters, 1859 (Poeciliidae): *Capillaria* sp., *Gyrodactylus turnbulli*.
- Polydactylus approximans* (Lay & Bennett, 1839) (Polynemidae): *Microcotyloides impudicus*, *Procamallanus (Spirocamallanus)* sp.
- Prionotus stephanophrys* Lockington, 1881 (Triglidae): *Corynosoma* sp., *Kudoa estela*.
- Prionotus punctatus* (Bloch, 1793) (Triglidae): *Blias prionoti*.
- Prochilodus nigricans* Spix & Agassiz, 1829 (Prochilodontidae): *Lecithobotrioides elongatus*, *Neoechinorhynchus* sp., *Rhinonastes pseudocapsaloideum*.

- Pseudoplatystoma fasciatum* (Linnaeus, 1766) (Pimelodidae): *Chambriella* sp., *Choanoscolex abscisus*, Dactylogyridae gen. sp., *Harriscolex kaparari*, *Megathylacus* sp., *Nomimoscolex lopesi*, *N. sudobim*, *Peltidocotyle rugosa*, *Phyllodistomum* sp., *Vancleaveus fungulus*.
- Pseudoplatystoma punctifer* (Castelnau, 1855) (Pimelodidae): *Choanoscolex* sp., *Houssayella sudobim*, *Megathylacus* sp., *Spasskyellina spinulifera*, *Spatulifer rugosa*.
- Pseudoplatystoma tigrinum* (Valenciennes, 1840) (Pimelodidae): *Choanoscolex* sp., *Nomimoscolex* cf. *sudobim*, *Spasskyellina spinulifera*, *Spatulifer* sp.
- Pterodoras granulosus* (Valenciennes, 1821) (Doradidae): *Cosmetocleithrum bulbocirrus*, *Monticellia belavistensis*, *Proteocephalus kuyukuyu*, *Proteocephalus* sp., *Vancleaveus janauacaensis*.
- Pterodoras* sp. (Doradidae): *Proteocephalus kuyukuyu*.
- Pterophyllum scalare* (Schultze, 1823) (Cichlidae): *Dactylogyrus* sp., *Gussevia spiralcirra*
- Pterygoplichthys anisitsi* Eigenmann & Kennedy, 1903 (Loricariidae): *Unilatus brittani*, *U. unilatus*.
- Pterygoplichthys multiradiatus* (Hancock, 1828) (Loricariidae): *Gorytocephalus plecostomorum*.
- Pygocentrus nattereri* Kner, 1858 (Characidae): *Amphithecium calycinum*, *A. camelum*, *Anacanthorus reginae*, *A. stachophallus*, *A. thatcheri*, *Notothecium mizellei*, *N. penetratum*, *Rhinoxenus piranhus*.
- Sarda chiliensis* (Cuvier, 1832) (Scombridae): *Adenocephalus pacificus*, *Acanthobothrium chilensis*, *Anisakis physeteris*, *Caligus bonito*, *Caligus* sp., *Capsala gregalis*, *Ceratothoa gaudichaudii*, *Diphyllobothrium* sp., *Hysterothylacium aduncum*, *Koellikerioides* sp., *Metanematobothrium* sp., *Nybelinia* sp., *Rhipidocotyle adbaculum*, *Rhipidocotyle* sp., *Rhodobothrium mesodesmatum*, "Scolex pleuronectis", *Sphyriocephalus tergestinus*, *Unitubulotestis* sp., *Unitubulotestis pelamydis*.
- Sardinops sagax* (Jenyns, 1842) (Clupeidae): *Anisakis* sp., *Choricotyle sonorensis*, *Contraeaecum* sp., *Scolex pleuronectis*.
- Satanoperca jurupari* (Heckel, 1840) (Cichlidae): *Sciadicleithrum satanopercae*.
- Scartichthys gigas* (Steindachner, 1876) (Blennidae): *Acanthochondria sicyasis*, *Ceratothoa gaudichaudii*, *Corynosoma obtuscens*, *Johnstonmawsonia* sp., *Lacistorhynchus tenuis*, *Lepocreadium trachinoti*, *Metamegasolena* sp., *Proleptus* sp., *Prosorhynchus* sp., *Pseudodelphis* sp., *Zoogonus dextrocirrus*, *Z. rubellus*, *Zoogonus* sp.
- Schedophilus haedrichi* Chirichigno F., 1973 (Centrolophidae): *Teleurysorchis gumercindae*
- Sciaena deliciosa* (Tschudi, 1846) (Sciaenidae): *Acanthocolax peruensis*, *Adenocephalus pacificus*, *Anisakis* sp., *Caligus callaoensis*, *Callitetrarhynchus gracilis*, *Clavellotis* sp., *Corynosoma austral*, *C. obtuscens*, *Cynoscionicola sciaenae*, *Dasyrhynchus pacificus*, *Dichelyne (Cucullanellus) amaruincai*, *Encotyllabe callaoensis*, *Hargicotyle louisianensis*, *H. peruensis*, *H. sciaenae*, *Hargicotyle* sp., *Helicometra fasciata*, *Kudoa sciaenae*, *Lacistorhynchus tenuis*, *Lernanthropus huamani*, *L. pacificus*, *Lernanthropus* sp., *Macrovalvitrema* sp., *Nybelinia* sp., *Parabrachiella oralis*, Piscicolidae gen. sp., *Tegorhynchus* sp., *Proleptus* sp., *Villarrealina peruana*.
- Sciaena callaensis* Hildebrand, 1946 (Sciaenidae): *Adenocephalus pacificus*.
- Sciaena wieneri* Sauvage, 1883 (Sciaenidae): *Anisakis* sp.



- Sciaenidae gen. sp.: *Ceratothoa gaudichaudi*.  
*Scomber japonicus* Houttuyn, 1782 (Scombridae): *Adenocephalus pacificus*, *Anisakis* sp., *Anisakis physeteris*, *A. simplex*, *Caligus pelamydis*, *Ceratothoa gaudichaudii*, *Ceratothoa* sp., *Callitetrarhynchus gracilis*, *Clavellisa scombri*, *Contracaecum* sp., *Corynosoma obtuscens*, *Didymocystis* sp., *Didymozoidae* gen. sp., *Diphyllobothridae* gen. sp., *Koellikeria* sp., *Kuhnia indica*, *K.scombri*, *Kuhnia sprostonae*, *Kudoa caudata*, *Maccallumtrema* sp., *Nematobothrium scombri*, *Nematobothriinae* gen. sp., *Nybelinia* sp., *Ovarionematobothrium saba*, *Prodistomum orientalis*, *Pseudoterranova decipiens*, *Rhadinorhynchus pristis*, *Rocinela* sp., “*Scolex pleuronectis*”, *Tentacularia coryphaenae*, *Unitubulotestis* sp.
- Scomberomorus sierra* Jordan & Starks, 1895 (Scombridae): *Acantholochus nudiusculus*, *Adenocephalus pacificus*, *Anaporrhutum* sp., *Didymozoon* sp., *Caligus omissus*, *Cybicola buccata*, *Diphyllobothrium* sp., *Mexicotyle mexicana*, *Pseudaxine* sp., *Pseudogrillotia peruviana*, *Thoracocotyle crocea*.
- Scorpaena russula* Jordan & Bollman, 1890 (Scorpaenidae): *Anisakis* sp.
- Sebastes capensis* (Gmelin, 1789) (Sebastidae): *Ascarophis Sebastodis*, *Corynosoma australe*, *Helicometrina nimia*, *Neobenedenia melleni*, *Pseudopecoelus* sp.
- Seriola lalandi* Valenciennes, 1833 (Carangidae): *Allencotyla mcintoshii*.
- Seriollella violacea* Guichenot, 1848 (Centrolophidae): *Anisakis* sp., *Corynosoma* sp., *Lecithocladium cristatum*, *Lecithocladium* sp., *Lernanthropinus trachuri*, *Neobothriocephalus aspinosus*, *Nybelinia* sp., *Paraeurysorchis sarmientoi*, *Philometra neptomeni*.
- Sicyases sanguineus* Müller & Troschel, 1843 (Gobiesocidae): *Acanthochondria sicyasis*, *Helicometrina nimia*, *Lecithasteridae* gen. sp., *Proctoeces lintoni*, *Proctoeces* sp., *Prosorhynchoides* sp.
- Sorubim lima* (Bloch & Schneider, 1801) (Pimelodidae): *Ameloblastella* sp., *Dactylogyridae* gen. sp., *Manaosia bracodemoca*, *Spatulifer maringaensis*.
- Sorubimichthys planiceps* (Spix & Agassiz, 1829) (Pimelodidae): *Chambriella* sp., *Choanoscolex* sp., *Houssayella sudobim*, *Lenhataenia megacephala*, *Nomimoscolex lenha*, *Peltidocotyle lenha*, *Spasskyellina lenha*.
- Stellifer minor* (Tschudi, 1846) (Sciaenidae): *Acanthocolax peruensis*, *Anisakis* sp., *Cainocreadium* sp., *Caligus quadratus*, *Clavella* sp., *Clavellotis dilatata*, *Corynosoma obtuscens*, *Corynosoma* sp., *Cymothoidae* gen. sp., *Cynoscionicola americanus*, *Cynoscionicola* sp., *Diplectanum* sp., *Encotyllabe* sp., *Helicometra fasciata*, *Kudoa sciaenae*, *Lacistorhynchus tenuis*, *Loimos* sp., *Nybelinia* sp., *Pedocotyle annakohni*, *P. bravoii*, *Pedocotyle* sp., *Procamallanus (Spirocamallanus) pereirai*, *Procamallanus (Spirocamallanus)* sp., *Rhadinorhynchus* sp., *Rhamnocercus oliveri*, *Rhamnocercus* sp., *R. stelliferi*, “*Scolex pleuronectis*”.
- Stethaprion erythropros* Cope, 1870 (Characidae): *Auriculostoma diagonale*
- Stromateus stellatus* Cuvier, 1829 (Stromateidae): *Ceratothoa gaudichaudii*; *Hysterothylacium* sp. *Lecithocladium cristatum*
- Strongylura exilis* (Girard, 1854) (Belonidae): *Bomolochus constrictus*, *B. ensiculus*, *Lernanthropus tylosuri*, *Loxura peruensis*.
- Strongylura scapularis* (Jordan & Gilbert, 1882) (Belonidae): *Ancyrocephalus* sp. *Bomolochus bellones*, *Dollfustrema* sp.,

- Loxura peruensis*, *Tylosuricola amatoii*, “*Scolex pleuronectis*”.
- Symphysodon aequifasciatus* Pellegrin, 1904 (Cichlidae): *Dactylogyrus* sp.
- Thunnus albacares* (Bonnaterre, 1788) (Scombridae): *Pseudocycnus appendiculatus*
- Trachinotus paitensis* Cuvier, 1832 (Carangidae): *Adenocephalus pacificus*, *Bicotylophora trachinoti*, *Caligus quadratus*, *Dinurus* sp., *Gonocercella pacifica*, *Gonocerca* sp., *Kuhnia* sp., *Lecithocladium* sp., *Lernanthropus* sp., *Lobatostoma kemostoma*, *L. pacificum*, *Lobatostoma* sp., *Phyllodistomum* sp., *Proleptus* sp., *Pyragraphorus pyragraphorus*.
- Trachinotus rhodopus* Gill, 1863 (Carangidae): *Ectenurus* sp., *Lobatostoma pacificum*, *Parahemiurus* sp.
- Trachurus murphyi* Nichols, 1920 (Carangidae): *Adenocephalus pacificus*, *Anisakis physeteris*, *A. simplex*, *Anisakis* sp., *Caligus bonito*, *Callitetrarhynchus gracilis*, *Cemocotyle trachuri*, *Cemocotyle* sp., *Ceratothoa gaudichaudii*, *Contracaecum* sp., *Corynosoma australe*, *C. obtuscens*, *Corynosoma* sp., *Diphyllobothrium* sp., *Eutetrarhynchus* sp., *Lernanthropinus trachuri*, *Monascus* sp., *Nybelinia surmenicola*, *Nybelinia* sp., *Procamallanus* (*Spirocamallanus*) *chimusensis*, *Pseudoterranova decipiens*, *Pygidiopsis* sp., *Rhabdochona* sp., *Rhadinorhynchus* sp., “*Scolex pleuronectis*”, *Tegorhynchus* sp., *Tentacularia coryphaenae*.
- Trichomycterus dispar* (Tschudi, 1846) (Trichomycteridae): *Contracaecum* sp., *Procamallanus* (*Spirocamallanus*) *chimusensis*, *Pygidiopsis* sp., *Rhabdochona* sp.
- Trichomycterus piurae* (Eigenmann, 1922) (Trichomycteridae): *Clinostomum marginatum*, *Procamallanus* (*Spirocamallanus*) *hilarii*, *P. (Spirocamallanus) chimusensis*.
- Trichomycterus punctulatus* Valenciennes, 1846 (Trichomycteridae): *Hepatoxylon megacephalum*, *Gyrodactylus* sp.
- Triportheus angulatus* (Spix & Agassiz, 1829) (Characidae): *Procamallanus* (*Spirocamallanus*) *inopinatus*.
- Tylosurus acus acus* (Lacepède, 1803) (Belonidae): *Bomolochus constrictus*, *Colobomatus goodingi*.
- Tylosurus pacificus* (Steindachner, 1876) (Belonidae): *Caligodes laciniatus*, *Caligus* sp.
- Xenistius peruanus* Hildebrand, 1946 (Haemulidae): *Cynoscionicola intermedia*.
- Xiphias gladius* Linnaeus, 1758 (Xiphiidae): *Gloiopotes huttoni*.
- Xiphophorus hellerii* Heckel, 1848 (Poeciliidae): *Centrocestus* sp.
- Zungaro zungaro* (Humboldt, 1821) (Pimelodidae): *Amphoteromorphus parkamoo*, *Chambriella agostinhoi*, *Euzetiella tetraphylliformis*, *Jauella glandicephalus*, *Megathylacus jandia*, *Peltidocotyle lenha*, *Proteocephalus sophiae*, *Travassiella jandia*.
- Unspecified host (unspecified family): *Anilocra laevis*, *Asotana formosa*, *Cymothoa oestrum*.
- Chondrichthyes (cartilaginous fishes)**
- Alopias* sp. (Alopiidae): *Echthrogaleus pellucidus*.
- Callorhynchus callorhynchus* (Linnaeus, 1758) (Callorhynchidae): *Callorhynchocotyle marplatensis*, *Gyrocotyle maxima*.
- Carcharhinus leucas* (Müller & Henle, 1839) (Carcharhinidae): *Cathetocephalus thatcheri*.
- Carcharhinus porosus* (Ranzani, 1839) (Carcharhinidae): *Cathetocephalus thatcheri*, *Disculiceps pileatus*.

- Cetorhinus maximus* (Gunnerus, 1765) (Cetorhinidae): *Dinobothrium paciferum*.
- Dasyatis dipterura* (Jordan & Gilbert, 1880) (Dasyatidae): *Acanthobothroides peruensis*, *A. thorsoni*, *Rhodobothrium pulvinatum*.
- Galeorhinus galeus* (Linnaeus, 1758) (Triakidae): *Perissopus dentatus*.
- Isurus oxyrinchus* Rafinesque, 1810 (Lamnidae): *Anthosoma crassum*, *Dinemoura*, *latifolia*, *D. producta*, *Echthrogaleus denticulatus*, *Gangliopus pyriformis*, *Nemesis lamna*, *Nybelinia* sp., *Pandarus katoi*, *P. satyrus*, *Clistobothrium tumidum*, *Phyllothyreus cornutus*.
- Mobula thurstoni* (Lloyd, 1908) (Myliobatidae): *Nagmiaperuviana*.
- Mustelus dorsalis* Gill, 1864 (Triakidae): *Acanthocheilus bicuspis*, *Anisakis* sp., *Calliobothrium* sp., *Calliobothrium verticillatum*, *Paraorygmatobothrium triacis*, *Erpocotyle* sp., *Lacistorhynchus tenuis*, *Loimos scoliodoni*, *Orygmatobothrium musteli*.
- Mustelus lunulatus* Jordan & Gilbert, 1882 (Triakidae): *Orygmatobothrium musteli*
- Mustelus mento* Cope, 1877 (Triakidae): *Acanthocheilus bicuspis*, *Calliobothrium* sp., *Calliobothrium verticillatum*, *Echinocephalus* sp., *Lacistorhynchus tenuis*, *Nybelinia* sp., *Orygmatobothrium mustelid*, *Orygmatobothrium* sp., *Phyllobothrium lactuca*, *Phyllobothrium* sp., *Proleptus obtusus*.
- Mustelus* sp. (Triakidae): *Ceratothoa gaudichaudii*
- Mustelus whitneyi* Chirichigno F., 1973 (Triakidae): *Lacistorhynchus tenuis*, *Symcallio lintoni*, *Orygmatobothrium musteli*, *Paraorygmatobothrium triacis*.
- Myliobatis chilensis* Philippi, 1892 (Myliobatidae): *Acanthobothrium batailloni*, *A. holorhini*, *Acanthobothrium* sp., *Caulobothrium myliobatidis*, *Echeneibothrium* sp., *Eudactylina myliobatidos*, *Phyllobothrium thridax*, *Pseudocharopinoides myliobatides*, *Pseudocharopinus narcinae*, *Rhinebothrium* sp., *Rhodobothrium mesodesmatum*, *Trebius latifurcatus*.
- Myliobatis peruvianus* Garman, 1913 (Myliobatidae): *Acanthobothrium brevissime*, *A. holorhini*, *A. gonzalesmugaburui*, *Anaporrhutum albidum*, *Anthobothrium* sp., *Benedeniella* sp., *Echinobothrium* sp., *Eutetrarhynchus* sp., *Nybelinia* sp., *Phyllobothrium thridax*, *Proleptus* sp., *Rhinebothrium* sp., *Rhodobothrium mesodesmatum*.
- Paratrygon aiereba* (Müller & Henle, 1841) (Potamotrygonidae): *Nandocestus guariticus*, *Potamotrygon* cf. *fitzgeralde*, *Potamotrygonocestus* sp., *Proteocephalidea* gen. sp., *Rhabdochona* sp., *Rhinebothrium copianullum*, *Rhinebothrium* sp., *Rhinebothroides* sp.
- Potamotrygon falkeri* (Castex & Maciel, 1963) (Potamotrygonidae): *Potamotrygonocestus* cf. *fitzgeraldae*, *Rhabdochona* sp., *Rhinebothroides* sp.
- Potamotrygon* cf. *falkeri* (Castex & Maciel, 1963) (Potamotrygonidae): *Acanthobothrium* cf. *peruviense*, *Nandocestus guariticus*, *Potamotrygonocestus* sp., *Proteocephalidea* gen. sp., *Rhinebothrium copianullum*, *Rhinebothroides* sp.
- Potamotrygon motoro* (Müller & Henle, 1841) (Potamotrygonidae): *Acanthobothrium peruviense*, *Acanthobothrium* cf. *ramiroi*, *Potamotrygonocestus* sp., *Potamotrygonocotyle chisholmae*, *P. dromedaries*, *Proteocephalidea* gen. sp., *Rhinebothrium copianullum*, *Rhinebothroides* sp.
- Potamotrygon tataniae* Silva & Carvalho, 2011 (Potamotrygonidae): *Rhinebothrium copianullum*.
- Potamotrygon* sp. (Potamotrygonidae): *Potamotrygonocotyle rionegrense*, *P. tsalickisi*.
- Prionace glauca* (Linnaeus, 1758)

- (Carcharhinidae): *Achtheinus oblongus*, *Anisakis* sp., *Anthobothrium laciniatum*, *Anthosoma crassum*, *Gangliopus pyriformis*, *Hepatoxylon trichiuri*, *Paraorygmatobothrium angustum*, *Platybothrium auriculatum*, *Prosobothrium armigerum*, *Tentacularia coryphaenae*.
- Rhinobatos planiceps* Garman, 1880 (Rhinobatidae): *Acanthobothrium olseni*, *A. robustum*, *Anoplocotyloides chorrillensis*, *A. papillatus*, *Eudactylina peruensis*, *Heterocotyle* sp., *Ommatokoita elongata*, *Phyllobothrium* sp., *Prochristianella heteracantha*, *Proleptus carvajali*, *P. obtusus*, *Rhinebothrium rhinobati*, *Rhinobatonchocotyle cyclovaginatus*, *R. pacifica*, *Stibarobdella moorei*.
- Rhinoptera steindachneri* Evermann & Jenkins, 1891 (Myliobatidae): *Caulobothrium* sp.
- Scyllium* sp. (Scyliorhinidae): *Echinocephalus striatus*.
- Sphyrna zygaena* (Linnaeus, 1758) (Sphyrnidae): *Platybothrium* sp., *Thysanocephalum thysanocephalum*.
- Squatina armata* (Philippi, 1887) (Squatinae): *Grillotia* sp., *Otodistomum veliporum*, *Phyllobothrium* sp.
- Sympterygia brevicaudata* (Cope, 1877) (Rajidae): *Acanthobothrium lusarmientae*, *A. psammobati*, *Otodistomum veliporum*.
- Synodus scituliceps* Jordan & Gilbert, 1882 (Synodontidae): *Rhinebothrium* sp., "Scolex pleuronectis".
- Triakis maculata* Kner & Steindachner, 1867 (Triakidae): *Acanthocheilus bicuspis*, *Proleptus obtusus*.
- Unspecified host (unspecified family): *Pandarus smithii*.

**Table 1.** Nominal and undetermined species according taxonomic group recorded of fishes from Peru.

Taxonomic group	Nominal sp.	Undetermined sp.	Total
Monogenea	135	40	175
Cestoda	106	34	140
Digenea	53	57	110
Copepoda	76	12	88
Nematoda	31	18	49
Acanthocephala	10	6	16
Myxozoa	7	9	16
Isopoda	5	4	9
Aspidogastrea	4	1	5
Annelida	1	1	2
Branchiura	2	0	2

**Table 2.** Environment distribution according taxonomic group recorded of fishes from Peru.

Taxonomic group	Marine	Freshwater	Both environments	Total
Monogenea	90	85	0	175
Cestoda	68	71	1	140
Digenea	82	27	1	110
Copepoda	86	2	0	88
Nematoda	28	19	2	49
Acanthocephala	10	6	0	16
Myxozoa	11	5	0	16
Isopoda	8	1	0	9
Aspidogastrea	5	0	0	5
Annelida	2	0	0	2
Branchiura	1	1	0	2

## DISCUSSION

Though many parasites have been reported from fish in Peru, these reports likely represent only a small fraction of the true richness of parasite species from Peruvian fishes. There are 1599 known Peruvian fish species (Froese & Pauly, 2015), of which 189, i.e., less than 1/8, have parasitological records. This is a negligible increase compared with the proportion of  $\approx 1/10$  calculated by Luque & Poulin (2007) almost 10 years ago. The current scenario for fish parasite research in Peru can be extended to other parts of the world and to other groups of vertebrates as parasite hosts (Madhavi, 2011; Hernández-Orts *et al.*, 2015; Tavakol *et al.*, 2015); thus, any estimates of parasite diversity are questionable (Poulin, 2014). A steadily decreasing number of taxonomic experts (and their uneven distribution) makes the situation even worse (Brooks & Hoberg, 2000).

Despite the greater richness of freshwater fishes in Peru compared to marine species, few parasitological surveys have focused on the fishes inhabiting Peru's large hydrological

drainages. Recently, taxonomical studies have been performed on the parasites of fishes from the Peruvian Amazon using both morphological and molecular approaches, including on cestodes (de Chambrier *et al.*, 2015a,b), monogeneans (Mendoza-Palmero *et al.*, 2015) and acanthocephalans (Lisitsyna *et al.*, 2015). However, our knowledge of the parasite fauna of these fishes is still far from complete, and most of the diversity remains untouched.

Although Peru is a megadiverse country, it was not included as a fish parasite hotspot by Luque & Poulin (2007) because of the low number of studies compared to other Latin American countries such as Brazil, Mexico and Puerto Rico.

The marine fishes *M. gayi peruanus*, *S. japonicus*, *P. peruanus*, *S. deliciosa*, *S. minor* and *T. murphyi* presented the highest richness of parasites. Because Peru is one of the foremost Latin fishing nations, based mainly on its large coast that is rich in fish species that are used as basic food supplies in several regions of the country (Ibarra *et al.*, 2000), it is not surprising that the majority of

parasitological studies focus on important fishery species. Moreover, there is financial support for parasitological studies on species that have economic importance, such as those performed by Iannacone *et al.* (2009a-c), who studied the parasitic fauna of *A. scapularis*, *P. humeralis* and *M. cephalus*.

The fauna of Chilean fishes is very similar to Peru in that its largest number of parasites were reported from *Sebastes oculatus* Valenciennes, 1833 (= *Sebastes capensis*), *M. gayi gayi*, *T. murphyi* and *C. gilberti* (Muñoz & Olmos, 2007, 2008). This similarity is not surprising, given the countries' obvious spatial proximity and their sharing of the Humboldt Current System, which is known for its richness of nutrients and biodiversity, including parasites and fishes. Therefore, the differences in the number of hosts studied in Peru (206 species) and Chile (approximately 100 species) seems to arise from a reduced number of studies undertaken in the latter country and not by a smaller number of potential hosts; 1167 fish species are estimated to inhabit the corresponding area in the Humboldt Current System (Muñoz & Olmos, 2007; 2008; Miloslavich *et al.*, 2011).

In the present study, the greatest richness of parasites was registered among monogeneans (175) and cestodes (140), in contrast to the observations in freshwater fishes in Mexico by Salgado-Maldonado (2013), where nematodes and trematodes are the dominant group of parasites. In Chile, the most common fish parasites are crustaceans and trematodes (Muñoz & Olmos, 2007; 2008). These differences, especially between Peru and Chile, which are similar in their composition of marine fishes, can be caused by the different foci of studies carried out by some research teams (Poulin & Morand, 2004).

The fact that monogeneans constitute the largest number of species could be a result of two factors: (1) the biology of these organisms,

which exhibit narrow host specificity, a highly specialized attachment apparatus and a direct life-cycle associated with numerous fish hosts (Whittington 1998; Cribb *et al.*, 2002; Poulin, 2002); or (2) directed studies on this parasite group performed by a single or few research teams, which is pronounced at a local scale (Poulin & Morand, 2004). The much lower number of monogeneans reported from Chile (43 species) compared to Peru (175 species) may reflect a lower number of studies in this country, which is aggravated by the lack of taxonomic experts (Muñoz & Olmos, 2007).

The second most species-richest group was the cestodes. Twelve of the 20 known orders of tapeworms (assuming that Proteocephalidea is not included in the Onchoproteocephalidea; see Alves *et al.*, 2015a) have been reported from Peruvian fishes, including the still artificial "Tetraphyllidea", which was previously a catch-all group and is now split into several new orders (Caira *et al.*, 2014). To date, the proteocephalideans presented the highest richness of cestode species (46 spp.) and mainly parasitize catfishes (Siluriformes) from the Peruvian Amazon (de Chambrier *et al.*, 2006, 2015a,b).

Concerning the trematodes, the diversity of species found in Peru, Brazil and Chile (115, 247 and 86 species, respectively) (present study; Kohn *et al.*, 2007; Muñoz & Olmos, 2008) is highest in Brazil but may be considered to be rather low. The Digenea, which is the biggest trematode group to date, is also the largest taxon of endoparasites (Olson *et al.*, 2003), mostly due to the extraordinary diversification in its sites of infection, life cycles and modes of feeding (Cribb *et al.*, 2002). Thus, the large number of fishes known from Peruvian waters should serve either as definitive or intermediate hosts for these organisms. Limited information is available on metacercariae in freshwater fishes.

The nematodes were represented by 49

species, almost one third of the total compiled by Luque *et al.* (2011), who listed 140 named and 75 unidentified species in fishes from Brazil, but this number is similar to that reported from Chile (i.e., 22 named and 17 unidentified species) (Muñoz & Olmos, 2008). Poulin (2014) stated that variation in the parasitic fauna among closely related geographic areas is mainly driven by the distribution of potential hosts. Therefore, the similarity between the nematode species in Peru and Chile might be explained by their similar fish fauna. In contrast, the Brazilian coastline is the largest in South America; thus, a higher number of nematode species is expected from the numerous potential hosts.

Other groups of parasites, such as Acanthocephala, Hirudinea and Myxozoa, were represented by only a few species, which corresponds to the situation in Chile (Muñoz & Olmo, 2007; 2008).

The present account confirms that Peru has one of the biggest fish parasite fauna in South America but also indicates that much more effort is necessary to grasp its true diversity and might serve as a guide for further studies on this subject. Analyses based on morphological and molecular data (integrative taxonomy) are pending to enrich our knowledge of these parasites either to search for cryptic species and their geographical distributions or to link larval stages to their respective adult forms.

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