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Source: Revue suisse de Zoologie, 131(1) : 1-42

Published By: Muséum d'histoire naturelle, Genève

URL: <https://doi.org/10.35929/RSZ.0112>

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## Checklist of the Cestoda (Platyhelminthes) of Switzerland

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**Abstract:** A checklist, including all the cestode taxa recorded from Switzerland, their hosts, as well as deposited specimens available in scientific collections, is provided. The country has one of the richest European cestode faunas consisting of 251 species, almost all of them cyclophyllideans, that were identified in 190 vertebrate and 24 invertebrate host species. This is a very significant increase over the previous similar list that was established one century ago by Fuhrmann (1926). Since then, advances have been particularly important for parasites of mammals and birds although an important margin of progress remains for the latter as several bird families have been surprisingly little studied in the country. A large proportion of species described in Switzerland, including 22 that are represented by types, are available in public collections, most of them at the Muséum d'histoire naturelle de Genève. New reports were numerous in the second half of last century but have become scarce in recent decades. Today, tapeworms have been identified in no more than one third of Swiss vertebrate species and despite one century of progress, the true diversity of this fauna in the country remains to be determined.

**Keywords:** Biodiversity - Platyhelminthes - Fauna - Tapeworms.

### INTRODUCTION

Human-created borders obviously do not limit biological taxa, and it may look somewhat archaic to establish national checklists for the latter. However, despite their artificiality, such lists remain useful as practical tools in many domains, not least for conservation management. Furthermore, they allow aggregating hard to find and dispersed data, especially for poorly studied groups; or facilitate faunistic comparisons between regions. Although checklists are regularly published for better known groups, like vertebrates or some arthropods, this is generally not the case for less popular taxa, whatever their diversity or ubiquity. Parasitic helminths, and among them cestodes, certainly belong to this category, even though Switzerland was home to some of the most famous and prolific cestodologists of the 20th century, like Otto Fuhrmann (1871-1945) or Jean-Georges Baer (1902-1975). However, although these authors, and their students, contributed significantly to knowledge of the Swiss fauna, they never particularly focused on it. Today, the single exhaustive list of Cestoda found in Switzerland

remains that of Fuhrmann (1926) published almost a century ago.

Similar global checklists are also rare for most other countries, the most notable and recent exception in Europe being the “*Checklist of tapeworms of vertebrates in Finland*” (Haukisalmi, 2015). A few other ones in Belarus (Merkusheva & Bobkova, 1981), the Iberian Peninsula (Cordero del Campillo *et al.*, 1994), Slovakia (Macko *et al.*, 1993, 1994; Hanzelova *et al.*, 1995; Hanzelova & Ryšavý, 1996, 1999) and Poland (Pojmanska *et al.*, 2007) also exist. An ancient checklist for France (Joyeux & Baer, 1936) was ill named, as it also covered many taxa absent from this country. On-line checklists are available for Italy (<http://www.faunaitalia.it/checklist/index.html>) (Stoch, 2003), as well as for the United Kingdom (<https://www.nhm.ac.uk/research-curation/scientific-resources/taxonomy-systematics/host-parasites/database/index.jsp>) (Natural History Museum, London, 2007), although with limited updates or accompanying information.

A recent and comprehensive list for Western Europe is therefore lacking. The goal of this study is to provide a complete summary of the known fauna of cestodes in

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Manuscript accepted 04.07.2023

DOI: 10.35929/RSZ.0112

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Switzerland. This list includes the names of the parasites, their known hosts, a simplified distribution in the country, a selective bibliography as well as a list of the known specimens kept in scientific institutions.

It should be emphasized that such a compilation is not a taxonomic work. As far as possible, historic names of parasites are listed under their presently accepted synonymy and they are placed in the most recent higher systematics of the group (Caira & Jensen, 2017), however no nomenclatural act is made here. This checklist aims at being a practical reference and tool for researchers and other users of biodiversity information.

## HISTORICAL CONTEXT

The earliest report of an identifiable parasitic worm in Switzerland seems to be that of *Diphyllobothrium latum* by Dunus (1592). It was followed by a few publications in the 17th century on parasites of humans. Later reports became more common but remained mostly limited to common parasites of domesticated animals until the mid-19th century when a more diverse and steady flux of publications started. A rather large spectrum of authors has contributed to the knowledge of the Swiss fauna, but only a few have built a consistent body of work. The most important of them being Friedrich Zschokke (1860-1936) in Basel, who published essentially on parasites of fish; Bruno Galli-Valerio (1867-1943) in Lausanne, veterinarian and physician, who probably examined the largest diversity of Swiss vertebrates through numerous publications (see Gaschen, 1950); Otto Fuhrmann (1871-1945) in Neuchâtel, one of the giants of cestodology, who worked on most tapeworm groups and contributed significantly to the knowledge of Swiss Cyclophyllidea; Bernd Hörning (1931-2012) in Bern, a veterinarian with interest in many wild animals (see in particular: Hörning, 1963); and Claude Vaucher (1942-) in Geneva, who decisively contributed to the knowledge of the helminthofauna of micromammals.

Besides parasites of domestic animals (and humans), the focus of cestodes biodiversity research in Switzerland long concentrated on parasites of fish from the country's major lakes, resulting in plethora, and often repetitive, observations, especially at the turn of the 20th century. These are particularly problematic when considering the extremely complex fish diversity in Alpine lakes (see below). Works by K. Wolffhügel (1869-1951) or Fuhrmann then progressively expanded our knowledge of the bird fauna, but a new focus on wild mammals only appeared in the 1960s. However, the latter two classes of vertebrates remain relatively poorly known, with significant gaps for example in passerines, or in chiropterans. As for amphibians and reptiles, only a very few isolated publications exist. Reports from larval forms in invertebrates are also limited and mostly ancient, as research on life cycles progressively became

unfashionable. The last significant reports in this field in Switzerland are from the late 1980s (Szelenbaum-Cielecka *et al.*, 1988).

The last two new cestode species descriptions from Swiss vertebrates, one in very common Song Thrushes and one in Great crested Grebes, are respectively over 30 and 20 years old (Gigon & Beuret, 1991; Vasileva *et al.*, 2000).

## MATERIAL AND METHODS

### Sources:

- 1) Museum data. Muséum d'histoire naturelle de Genève (MHNG) holds one of the major collections of cestodes worldwide (>22'000 lots), including most historic collections of Swiss cestodologists. Its catalogue provided the backbone of the present list. Additional data were requested from other Swiss Museums that maintain scientific collections as well as from major foreign Museums likely keeping Swiss specimens.
- 2) Other institutions data. Some veterinary or para-medical institutions in Switzerland were asked for archives or registers.
- 3) Bibliography. Searches were made with appropriate taxonomical and geographical filters in Web of Science's Zoological Record (© Clarivate).
- 4) Several unpublished student works from parasitology departments in Swiss institutes.

### Conditions for listing:

For a species to be included in the checklist, at least one of two nonexclusive conditions had to be met: The taxon had to be published with an explicit mention of its Swiss origin and/or specimens labeled as of Swiss origin had to be registered in collections in an academic institution. For the sake of consistency, and contrary to Fuhrmann (1926), observations from bordering foreign localities (e.g., "Salève" or "Black Forest") are not included here, leading to the exclusion of a few taxa that were listed in Fuhrmann's catalogue.

### Data provided (Table 1, Annex 1):

**Cestodes specific identification (generic in a few cases):** Except in rare instances, identifications have not been checked. Thus, the original publication/label name is reported, either as the valid or synonym name of the taxon. A synonym list is provided but does not aim at comprehensiveness: only names that have been used when specifically referring to specimens in Switzerland are mentioned.

**Hosts:** All hosts, both final and intermediate, belonging to the Swiss fauna are reported.

For vertebrates, hosts are listed under their present taxonomic status according to Fishbase (Froese & Pauly, 2021), Amphibian Species of the World (Frost,

2021), The Reptile Database (Uetz & Etzold, 1996), Avibase (Lepage, 2018), and Aulagnier *et al.* (2008) respectively for fish, amphibians, reptiles, birds and mammals (all online references accessed in 2021). Ancient host names have been updated in accordance. Parasites of captive hosts not belonging to the Swiss fauna are not listed.

The Swiss vertebrate fauna is well known, and most names are unambiguous. A significant exception to this statement concerns the fish, and especially the whitefishes (*Coregonus* spp., Salmonidae). Over the years, a very large number of names, both scientific and vernacular, have been used for these fish, especially in Swiss lakes. This is due to a complex history of speciation, colonization, hybridization, human transfers, and local extinctions. Revisions and descriptions of new taxa have been numerous (e.g., Selz *et al.*, 2020). Up to 35 species may presently be living in Swiss lakes, but revisions keep diverging both in the number and names of these taxa. Despite several attempts to clarify their systematic status (e.g., Steinmann, 1950; Kottelat & Freyhof, 2007) no taxonomical consensus presently exists. Even the species concept best adapted to *Coregonus* taxa is not clear as so called “speciation reversals” seem to be the norm under changing ecological conditions (Vonlanthen *et al.*, 2012). The problem is further enhanced when trying to match often partial or imprecise historical observations to present day nomenclature, a close to impossible task. Hence, I chose to retain the limited number of *Coregonus* species names that are recognized as valid in Fishbase (Froese & Pauly, 2021) even though this can lead to some inconsistencies. For example, in Lake Geneva, historical species are now considered extinct (Vonlanthen *et al.*, 2012), but I nevertheless use their names, as in the original publications, as no consensus exists on other ones. It is most likely that each significant water body in the country hosts its own fish population/parasite population fauna (with possible speciation for either or both in some cases), but no convenient nomenclatural system, neither for hosts nor for parasites, has yet been accepted to adequately represent this situation.

In addition, some rare ambiguities may occur for reports from domestic mammals that have a wild conspecific in the country, in particular for cats, with both *Felis s. silvestris* and *F. s. catus* living in Switzerland. Unless specified otherwise, reports are assumed to be from the domesticated form.

**Developmental stage:** Hosts of larval forms are mentioned as such. Note that in a few cases both adult and larval worms can be found in the same host.

**Localities:** Detailed localities are not reported (and, most often, not available); only cantons and large water bodies are mentioned when such information exists. In some cases, especially for collection specimens, only the mention “Switzerland” is available, resulting in this field being kept empty. Cantons and water bodies

mentioned might in some cases refer to the same observation from different sources.

Standard Swiss cantons abbreviations (<https://www.iso.org/obp/ui/#iso:code:3166:CH>) are used, except for BA (Basel) being used as a collective for BL and BS (Basel state and Basel city). The main water bodies are abbreviated as follows: A: Lake Maggiore; B: Lake Biel/Bienne; L: Lake Geneva/Léman; M: Lake Morat; N: Lake Neuchâtel; O: Lake Constance/Bodensee; T: Lake Thun; U: Lake Zug; V: Lake Lucerne/Vierwaldstättersee; Z: Lake Zürich. In a few cases CH is used for a documented countrywide distribution.

**Collection dates:** Only unambiguously reported collection years (which can significantly differ from publication dates) are mentioned. In most cases, especially for more ancient records, this information is lacking.

**References:** Bibliographic references are not listed exhaustively. A subjective selection of the most relevant publications citing the taxon is mentioned. For many specimens in collections, no associated publication is known.

**Specimens:** All databased specimens I am aware of are listed here with their accession number, and type status where appropriate. There are, however, a few unregistered samples from the large common species (*Taenia*, *Diphyllobothrium*, *Ligula*, ...) on display, or in the collections, of many smaller institutions. Museum acronyms: IPCAS: Institute of Parasitology, Czech Academy of Sciences; MHNf: Musée d'histoire naturelle, Fribourg; MHNG-PLAT: Muséum d'histoire naturelle de Genève, Platyhelminthes Collections; MUW: Department of General Biology and Parasitology, Medical University of Warsaw; GBIFCH: Musée de Zoologie, Lausanne, Invertebrates collections (=MZL-Invert); NMB-CEST: Naturhistorisches Museum, Basel, Cestodes collections; NHM: Natural History Museum, London; NSW: Naturmuseum Winterthur; USNM: National Museum of Natural History, Smithsonian Institution, Washington, DC; ZMZ: Zoologisches Museum Zürich.

## RESULTS

Mentions of at least 251 cestode species [in 125 genera and 21 families] forming 689 host/parasites pairs could be traced in Switzerland (including 5 *species inquirendae*) (Tables 1, 3). This is, respectively, a 99 and 132% increase on Fuhrmann's (1926) list. The main cestode order present in Switzerland is, by far, the Cyclophyllidea (218 spp. or 87% from total) with Hymenolepididae (111 spp.) followed by Dilepididae (36 spp.) as the most represented families. Altogether 214 species of hosts, 24 invertebrates and 190 vertebrates, have been recorded harboring cestode parasites. The cestode fauna of birds

is the most diversified (Table 2). Eight species are known only from their metacestodes.

Specimens from 208 (84%) of the species known from Switzerland are preserved in academic institutions, including 6 holotypes, 1 lectotype, 14 syntypes, 15 paratypes and 2 “types” specimens/lots representing 22 cestode species. These are distributed in 1250 lots, over 93% of them kept in the Muséum d’histoire naturelle de Genève (Annex 1). About 82% of the specimens with associated collection data were gathered in the second half of the last century. Parasites were recorded from all over Switzerland, although with a marked bias toward the Southern Alpine and Western parts of the country (Table 1).

## REMARKS

### a) Numbered remarks in Table 1:

- [1] Locality uncertain and host probably *Marmota* sp. (Global Cestode Database, Caira *et al.*, 2023)
- [2] Possibly imported from Eastern Europe.
- [3] This material is wrongly reported as *D. columbina* instead of *D. columbae* in the USNM database.
- [4] As *Taenia blanchardi* in Fuhrmann (1926).
- [5] Possibly also Galli-Valerio 1929 in VD (Gaschen, 1950).
- [6] One record (MHNG-PLAT-55742) of this species is reported from *Aythya marila* (Anatidae), a probable mislabeling.
- [7] Observation in a zoological garden, but the host is present in Switzerland.
- [8] Dubious as only *H. hibernia* Montgomery, Montgomery & Dunn seems to parasitize *Apodemus* (Nkouawa *et al.*, 2016)
- [9] Marked “*H. phasianina*”.
- [10] These records are dubious and likely due to mislabeling as these species are parasites of shrews (V. Haukisalmi, pers. communication).
- [11] One slide (MHNG-PLAT-40931) is marked with *Mergus serrator* as host, but the specimens are misidentified.
- [12] Original report mentions *Anser arvensis*, interpreted as *A. fabalis*.
- [13] Published information (Vaucher & Hunkeler, 1967); however, the single matching slide in collections (MHNG-PLAT-18532) indicates *R. straminea*.
- [14] Dubious. Vaucher (1971) considers the taxon as a specific parasite of *Crocidura*.
- [15] Possibly also intermediate host (Eckert & Deplazes, 2004).
- [16] Both in wild and domestic cats (Gaschen, 1950).
- [17] Uncertain. Reported by Fuhrmann (1926) from an observation of Galli-Valerio (1916).
- [18] According to Hörning (1963), only imported hares were positive.
- [19] Domestic.
- [20] Host inferred.
- [21] These records are suspicious as rodents are normal intermediate hosts of *V. mustelae*.
- [22] *Diphyllobothrium* sp. interpreted as *D. latum*.
- [23] According to Wicht (2008), *D. latum* does not develop in coregonids and probably also not in salmonids. Reports in these hosts may concern *D. dendriticum* (or possibly *D. ditremus*).
- [24] Local contamination but imported intermediate host.
- [25] *Proteocephalus* host list. Multiple confusions due to the close morphological similarity between *P. longicollis* with *P. exiguus*, *P. fallax*, *P. alosa* (now synonymized), *P. fillicollis* and *P. percae* have been the norm during most of the 20th century. This resulted in the mention of these worms in a variety of hosts, but many of these are most certainly misidentifications or accidental infections.
- [26] *P. fillicollis* is a parasite of *Gasterosteus aculeatus* and *Coregonus fera* is probably a postcyclic host (i.e., an additional host becoming infected with an adult worm through predation).
- [27] *P. longicollis* is a parasite of Salmonidae, but its presence in *Alosa agone* is possible. Reports in other fishes are likely misidentifications. Report in *Natrix* is certainly accidental/postcyclic. *M. leuckarti* has been found to be an unsuitable experimental host (T. Scholz, pers. communication).
- [28] A recent molecular analysis (Brabec *et al.*, 2023) suggested, however, that *P. fallax* may be a valid species parasite in *Coregonus* sp. while *P. longicollis* would be restricted to *Salmo* spp. hosts.
- [29] *P. percae* is a parasite of *Perca fluviatilis* and *Esox lucius* (postcyclic). *Proteocephalus ocellatus* (Rudolphi, 1802) was not recognized by Fuhrmann (1926) and is considered a synonym of *P. percae* (Muller, 1780) by Scholz & Hanzelova (1999). The numerous mentions of “*P. ocellatus*” in fish of other families, mostly in old records (e.g., Zschokke, 1884; Nufer, 1905) are most likely accidental or misidentifications.
- [30] *P. torulosus* is a parasite of Cypriniforms and records in other fishes should be considered accidental or misidentifications.

### b) Other remarks

- Two taxa reported by Fuhrmann (1899), *Acoleus vaginatus* (Acoleidae) in *Himantopus himantopus* and *Gyrocoelia perversus* (= *perversa*) (Dioicocestidae) in *Limosa lapponica*

are not considered herein. This material was given for determination to Fuhrmann by the MHNG, but I could find no indication that it originated from Geneva (or Switzerland). As no further reports of these taxa have been published, their presence in the country remains uncertain.

- Fuhrmann (1926) similarly reports the presence of *Diplophallus polymorphus* in *Recurvirostra avosetta* in Basel. A possible match for this material could be MHNG-PLAT-55673 that originates from the University of Neuchâtel collection, although no locality is mentioned on the label. Furthermore, the specimens, originally reported by Wolffhügel (1900), come from a “Zoologischer Garten von der Nordsee”. In consequence this taxon has most likely not been found in Switzerland and I haven't considered it in the table.
- An occurrence of *Grillotia erinaceus* (van Beneden, 1858) is mentioned in *Lota lota* in the early literature (e.g., Zschokke, 1903; Fuhrmann, 1926). Both the freshwater host and the locality (Lake Geneva) of this single record are highly improbable for a trypanorhynch cestode. No material is known. I have removed this host-parasite occurrence from the list.
- A type of *Proteocephalus abcisus* [= *Choanoscolex abcisus* (Riggenbach, 1895) La Rue, 1911] is registered from Switzerland in the USNM (#1349984). Origins of this material are unclear, but the species is from the Neotropics and does not belong to the Swiss fauna.
- Some data of Vaucher (1971) are difficult to interpret as a detailed host-parasite list by locality is not given. Geographical locations were ascertained on labels linked to specimens when available. In a few cases I considered that the parasite was present in Switzerland in each of its reported hosts whose distribution encompassed the country.

## DISCUSSION

### Sources

It should be noted that an important part of the data collected in this work comes from natural history collections material, highlighting the crucial importance of these institutions for our understanding of the biodiversity through time. Given their highly specialized nature, only a few museums maintain scientific collections of tapeworms and therefore I assume that a very high proportion of the existing information could be accessed. A similar level of confidence could also be reached for published information through the rich bibliographic database of the MHNG library and bibliographic

software. A few host/parasite reports were nevertheless difficult to track, especially when published in very local veterinary journals and a few have certainly been missed. Globally, though, I am confident that the information gathered in Table 1 is comprehensive. In addition to these traditional sources, a single occurrence of an unusual and quite unexpected host-parasite association was revealed through DNA sequencing (*Taenia martis* in *H. sapiens*, see Table 1). This is not surprising as only few sequences of cestodes of Swiss origin, mostly from Taeniidae and Proteocephalidae, are available in Genbank.

### Available material

It is remarkable that a very high proportion (84%) of the species known from Switzerland are represented by at least one sample in academic institutions (Annex 1). This is the direct consequence of the intense activity of researchers at the University of Neuchâtel during most of the last century. Their collections (as well as samples entrusted to them) were ultimately kept at the museum of natural history of this city, then transferred to the MHNG, which became a major repository for helminthological collections. Interestingly, only 22 species from this large pool are represented by types. These types are mostly from parasites of micromammals and have almost all been published either by Baer and collaborators in the 30s or by recent authors (e.g., Makarikov & Kontrimavichus, 2011). No parasites from birds were described in the country since Vasileva *et al.* (2000). Some material may have been registered without mention of their type status and it is possible, although unlikely, that other taxa from Swiss origin have been described without clear reference in foreign publications with their types conserved in collections not surveyed herein. Nevertheless, potential candidates for Swiss endemics should be looked for within those 22 species, especially amongst the micromammal parasites.

### Host coverage

In comparison with Fuhrmann (1926) a significantly higher proportion of the Swiss fauna is currently known to host cestodes. The increase is particularly important for mammals (+130%) and to some extent for birds (+73%), while it is minor for other groups of vertebrates. Despite these figures, it should be noted that cestodes remain known from less than one third of the potential Swiss vertebrate hosts (see Table 2). Metacestodes have been found in 40 invertebrate taxa, an increase from 24 in Fuhrmann (1926), but still an extremely low number that is likely due to the paucity of recent life-cycles studies. *Actinopterygii*: There is a long tradition of fish parasitological studies in Switzerland and thus it is logical that the number of host species has only marginally increased since Fuhrmann (from 31 to 36). The tapeworm fauna from most common fishes is generally well known, although the problem of *Proteocephalus* spp. in whitefish remains unresolved

(see above) and will necessitate detailed molecular studies to untangle. Nevertheless, despite the abundant literature and over a century of studies, the helminthes of the smaller or less common species remain poorly explored as tapeworms have been found in only 36% of the fish present in Switzerland (Table 2). An additional difficulty with fish is that introduced or invasive taxa are a problem in some waterbodies. A few of them have acclimated together with their parasite fauna, like the catfish *Ameiurus melas* (Rafinesque, 1820) and its proteocephalid *Corallobothrium parafimbriatum* Befus & Freeman, 1973.

*Amphibia/Reptilia*: Tapeworms are poorly diversified in herptiles, and the Swiss amphibian and reptile fauna is limited. Since Fuhrmann (1926) no new amphibian host has been found, but 2 snake and 1 lizard species have been discovered with cestodes. Tapeworms are probably present in a few more reptiles, but parasitological investigations of these hosts are particularly scarce.

*Aves*: With cestodes described in a mere 20% of the 431 bird species recorded in Switzerland, this group of hosts is proportionally the most understudied, and consequently the largest reservoir of potential new species of parasites for the country's fauna. A large-scale study in many different countries worldwide showed that at least 40% of examined bird species hosted cestodes (Mariaux *et al.*, 2017). In Switzerland, gaps are numerous as tapeworms have been found in only 35 out of 82 families of birds. Among the many families with no or very few recorded cestodes are small passerines [e.g., Acrocephalidae 0 species with cestodes out of 11 present, Hirundinidae (0/5), Phylloscopidae (1/11), Motacillidae (0/13) or Muscicapidae (2/23)]; however, some larger and very common birds, e.g., in Ardeidae (3/9) or Charadriidae (1/11) are also surprisingly understudied. It is for example highly unexpected that no tapeworm has been identified from the ubiquitous *Ardea cinerea* Linnaeus, 1758 in the country. Any basic parasitological survey of these often common and unthreatened birds would quickly add many species and dozens of host/parasites records to this checklist.

*Mammalia*: Most larger mammals, especially domestic ones, have been regularly studied and their parasitofauna can be considered as known. Starting in the 1960s regular surveys of micromammals have been undertaken and these hosts are now globally well covered too, resulting in cestodes described in 56% of the Swiss mammal fauna. Major gaps remain in Chiroptera with cestodes found in only 4 out of 26 species in the country.

### Taxonomic problems

Confidence in cestode identifications reported herein may vary greatly among groups and depends obviously in part on whether recent revisions were made, or failing this, on the quality of initial determination. For many of the cyclophyllidean taxa, no recent taxonomic reassessment was performed, although a

number of subgroups have been reviewed (at least in part) in the last two decades including several genera of Hymenolepididae (e.g., Vasileva *et al.*, 1999, 2002; Makarikov & Georgiev, 2020) or of Dilepididae and Paruterinidae (e.g., Georgiev *et al.*, 2004; Komisarovas *et al.*, 2007; Dimitrova *et al.*, 2017). Conversely, Bothriocephallidea and Oncoprotocephalidea have been more extensively reviewed e.g., by Scholz *et al.* (2007) or Kuchta *et al.* (2008). It remains that some of the older identifications may need confirmation. Part of the ancient material deposited in museums is, however, now over 100 years old and starting to deteriorate, making their study difficult. The development of molecular tools will certainly also bring new information on the composition and diversity of some taxonomically difficult groups, as recently exemplified by Brabec *et al.* (2023) but their use for identifying new taxa remain elusive for the time being as a comparative database is lacking.

### Comparison with other European faunas

With 251 tapeworm species, the Swiss fauna is proportionally richer than that of other European countries, some of them much larger and with a marine fauna, like Finland (170 spp.), Iberian Peninsula (257 spp.), Slovakia (225 spp.), Poland (279 spp.) (Haukisalmi, 2015) or Italy (323 spp.) (Stoch, 2003). This observation stands even when considering only vertebrate hosts, as some of the above-mentioned reports did not consider invertebrates and metacestodes. For non-landlocked countries, the marine component of the specific diversity is obviously significant (e.g., Cyclophyllidea only count for 63% of the Italian specific diversity), but even lacking it, the Swiss fauna is remarkably diverse (61 spp./10<sup>7</sup>000 sq. km in Switzerland vs. 10.7 in Italy or 8.6 in Poland). By this metrics, Slovakia has the closest diversity (45.9) to Switzerland. Both countries share a landlocked situation at similar latitude, a mountainous landscape, as well as a strong helminthological tradition and therefore a higher number of species examined than in other countries. This last factor is likely the most significant, as also noted by Haukisalmi (2015).

More detailed comparisons of parasites faunas are hazardous as each country has a typical host diversity. However, Haukisalmi (2015, table 1, P6) provided a comparison of unique cestode species numbers per order of birds in various European countries to which we can compare figures for Switzerland. The latter are very similar to those in almost all countries considered, with the highest number of cestodes in Anseriformes, Passeriformes, Gruiformes, Galliformes and Podicipediformes.

### CONCLUSION

Despite lacking a marine fauna, Switzerland hosts a very rich cestode diversity that has been quite extensively studied, especially in the first half of the 20th century.

Since the seminal synthesis of Fuhrmann (1926), our knowledge of tapeworms' diversity in the country expanded significantly, most notably in mammals.

This positive trend should, however, be put in perspective, as most of this progress was due to a very limited and quickly waning number of scientists. Presently, not only reports of new taxa are excessively rare and have all but stopped, but regular reports of known species in the wild fauna also became scarce. Among the factors leading to this situation, the vanishing training of taxonomists in this (and many other) group is certainly crucial. Furthermore, the taxonomy of animals like cestodes cannot rely on a population of amateur scientists to complement institutional research and the implementation of alternative (molecular?) systems of identification remain hypothetical at best given the poor comparative database available yet. This is worrying in a context of the threat to global biodiversity, and unfortunate because local taxonomic research would not require heavy investment. As demonstrated many times, including in Switzerland (e.g., Gigon & Beuret, 1991), a parasitological assessment of even the most common hosts would easily enrich the Swiss fauna and discover new indigenous taxa. This type of survey is, however, unlikely to flourish in the future as administrative agreements for collecting hosts, especially birds and some mammals, become increasingly arduous to obtain (Mariaux, 2021). As a result, today, and despite the number of prominent cestodologists who worked in Switzerland, less than one third of vertebrates in the country are known to harbor cestodes. The true extent of this parasitic fauna hence remains to be described.

#### ACKNOWLEDGEMENTS

I am extremely thankful to Prof. Ian Beveridge (Melbourne), Dr Patrick Boujon (Lausanne), Prof. Boyko Georgiev (Sofia), Prof. Bruno Gottstein (Bern), Dr Roman Kuchta (Ceske Budejovice), Prof. Christian Lengeler (Basel), Prof. Tomas Scholtz (Ceske Budejovice), Prof. Gergana Vasileva (Sofia), and Dr Claude Vaucher (Geneva), who helped in various ways to improve this manuscript. I am grateful to Profs Janine Caira (Storrs, CT) and Kirsten Jensen (Lawrence, KS) for maintaining the Global Cestode Database at the University of Connecticut. Dr Voitto Haukisalmi (Helsinki) and an anonymous reviewer are thanked for their constructive suggestions.

I would also like to thank the following colleagues and curators who provided information on their collections: Dr Marco Bernasconi (Lucerne), Škoríková Blanka (Ceske Budejovice), Dr Danuta Cielecka and Dr Ruslan Sałamatin (Warsaw), Yvette Endriss and Dr Eduard Stoeckli (Basel), Dr Anne Freitag and Dr Michel Sartori (Lausanne), Dr Sophie Giriens (Fribourg), Eileen Harris (†) and Lauren Hughes (London), Dr Nicolas Kramar (Sion), Stephan Liersch (Chur), Dr Arseny Makarikov

(Novosibirsk), Dr Nicolas Margraf (La Chaux-de-Fonds), Dr Lucia Pollini (Lugano), Dr Martina Schenkel (Zurich), Dr Sabrina Schnurrenberger (Winterthur), Dr Denis Vallan (Aarau).

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Table 1. List of cestodes and their hosts in Switzerland. Parasite species with a \* and hosts with a ° were already reported in Fuhrmann (1926). L indicates that larval forms were found in this host. See "Material and Methods" section for details and abbreviations. Remarks are numbered in square brackets and are developed in the text.

<b>BOTHRIOCEPHALIDEA</b>				
<b>Triacnophoridae Lönnerberg, 1889</b>				
<i>Bathybothrium</i> Lühe, 1802				
	<i>B. rectangulum</i> * (Bloch, 1782) - ( <i>Abothrium rectangulum</i> , <i>Bothriotaenia rectangulus</i> )			BA, N, O, V
	<i>Barbus barbus</i> °		Nufer 1905	BA
	<i>Perca fluviatilis</i>	L		VS
<i>Bothriocephalum marietani</i> Galli-Valerio, 1930 (sp. inquirenda)				
	<i>Rallius aquaticus</i>		Galli-Valerio 1930, Gaschen 1950, Kuchta & Scholz 2007	
<i>Eubothrium</i> Nybelin, 1922				
	<i>E. crassum</i> * (Bloch, 1779) - ( <i>Abothrium crassum</i> , <i>Ichthyotaenia percae</i> )			NE, L
	<i>Coregonus fera</i>	Zschokke 1933		N, V
	<i>Coregonus macrophthalmus</i>	Zschokke 1933		O, V
	<i>Coregonus warmmanni</i>	Fuhrmann 1926, Hörning 1963, Sublet 1987		BA, GE, NE, VD, VS, L, O/1961-8, 1977, 1986-98
	<i>Salmo trutta</i> °	Zschokke 1889, Fuhrmann 1926		BA
	<i>Salmo salar</i> °			L, N, O, V
	<i>E. rugosum</i> * (Batsch, 1786)			O
	<i>Lota lota</i> °	Fuhrmann 1926		L, N, O, V
	<i>E. salvelini</i> * (Schrank, 1790) - ( <i>Bothriocephalus infundibuliformis</i> , <i>Abothrium infundibuliformis</i> )			O
	<i>Cottus gobio</i> °	L Fuhrmann 1926		L, O, Z
	<i>Barbus barbus</i> °	L Fuhrmann 1926		O, V
	<i>Esox lucius</i> °	L Blanc 1887		L, V
	<i>Squalius cephalus</i> °	L Nufer 1905		L, N, O, V
	<i>Lota lota</i> °	L Zschokke 1884, Nufer 1905		L
	<i>Perca fluviatilis</i> °	L Zschokke 1884, Nufer 1905		V
	<i>Coregonus fera</i> °	Zschokke 1884		O, V
	<i>Coregonus macrophthalmus</i> °	Zschokke 1933		BA
	<i>Coregonus warmmanni</i> °	Zschokke 1896		L, V
	<i>Salmo salar</i> °	L Zschokke 1884, Nufer 1905		GE, VD, L, N, O, V/1999, 2000, 2002
	<i>Salmo trutta</i> °	L Fuhrmann 1926		BA, L, N, O
	<i>Salvelinus umbla</i> °	L Fuhrmann 1926		O
	<i>Thymallus thymallus</i> °	L Fuhrmann 1926		
	<i>Silurus glanis</i> °			
<i>Triacnophorus</i> Rudolphi, 1793				
	<i>T. crassus</i> * Forel, 1868 - ( <i>Triacnophorus robustus</i> )			BE, NE, ZG, B, L, N/1907, 1938
	<i>Esox lucius</i> °			ZG
	<i>Coregonus</i> sp.			V/2009-10
	<i>Coregonus lavaretus</i>			
	<i>Coregonus lucii</i>			
	<i>Cottus gobio</i> °	L Nufer 1905		V
	<i>Esox lucius</i> °	L Lune I 1879, Blanc 1887, Nufer 1905, Fuhrmann 1909		BA, GE, NE, L, N, O, V/1923, 1969, 1994, 2002-9
	<i>Alburnus alburnus</i> °	L Lune I 1879, Nufer 1905		L, V
	<i>Lota lota</i> °	L Lune I 1879, Nufer 1905, Fuhrmann 1909, Hörning 1963		CH/1907, 1938, 1961-3
	<i>Perca fluviatilis</i> °	L Forel 1868, Nufer 1905, Fuhrmann 1909, Hörning 1963		GE, OW, VD, L, N, O, V/1867, 1961-3, 1994-6
	<i>Phoxinus phoxinus</i>	L Nufer 1905		V
	<i>Coregonus fera</i> °	L Zschokke 1933		GE, V
	<i>Coregonus macrophthalmus</i> °	L Zschokke 1933		N, V
	<i>Coregonus warmmanni</i> °	L Nufer 1905, Zschokke 1933		BE, O, U, V
	<i>Salmo trutta</i> °	L Lune I 1879, Zschokke 1884		BE, L
	<i>Salvelinus umbla</i> °	L Zschokke 1884, Nufer 1905		L, V
	<i>Thymallus thymallus</i> °	L Zschokke 1884		BE, L, O
	<i>Tinca tinca</i>	L Galli-Valerio 1901		A

**CARYOPHYLLIDEA**

**Caryophyllaeidae Leuckart, 1878**

*Caryophyllaeus* Gmelin, 1790

*C. fimbriiceps* Annenkova-Chlopina, 1919

*Cyprinus carpio*

*Cottus gobio*<sup>o</sup>

*Cyprinus carpio*<sup>o</sup>

*Abramis brama*<sup>o</sup>

*Alburnus alburnus*<sup>o</sup>

*Blicca bjoerkna*<sup>o</sup>

*Chondrostoma nasus*<sup>o</sup>

*Rutilus rutilus*<sup>o</sup>

*Squalius cephalus*<sup>o</sup>

*Tinca tinca*<sup>o</sup>

*Limnodrilus claparedianus*<sup>o</sup>

*Tubifex barbatus*<sup>o</sup>

*Tubifex tubifex*<sup>o</sup>

1919, 1925  
V  
BE, N  
NE, O, L, N, V/1914, 1960, 1964, 1968, 1976  
O  
O, V  
BA, V  
VD, L, N, O, V/1960  
NE, L, O, V  
L  
NE, A, Z  
VD  
VD, A, N

Nufer 1905  
Fuhrmann 1926  
Nufer 1905, Huber 1988  
Fuhrmann 1926  
Nufer 1905  
Nufer 1905  
Huber 1988  
Zschokke 1884, Nufer 1905  
Fuhrmann 1926, Huber 1988  
Fuhrmann 1926  
Fuhrmann 1926  
Fuhrmann 1926

**Lytocestidae Hunter, 1927**

*Caryophyllaeides* Nybelin, 1922

*C. fennica*<sup>\*</sup> (Schneider, 1902) - (*Caryophyllaeides fennicus*, *Caryophyllaeides fennicus*, *Cyrophyllaeus mutabilis*)

*Blicca bjoerkna*

*Chondrostoma nasus*<sup>o</sup>

*Rutilus rutilus*<sup>o</sup>

*Scardinus erythrophthalmus*

*Squalius cephalus*<sup>o</sup>

N/1960  
BA  
V  
NE/1960  
L, N

Fuhrmann 1926  
Fuhrmann 1926  
  
Zschokke 1884, Fuhrmann 1926

*Khanvia* Hsu, 1935

*K. baltica* Szidat, 1942

*Tinca tinca*

1933, 1934

**CYCLOPHYLLIDEA**

**Anabiliidae Braun, 1900**

*Joyeuxiopsis* Spasskii, 1947

*J. acanthorhyncha*<sup>\*</sup> (Wedl, 1855) - (*Taenia acanthorhyncha*)

*Podicipedidae*

*Podicipedidae*

*Tachybaptus ruficollis*

Fuhrmann 1926

**Anoplocephalidae Blanchard, 1891**

*Anoplocephala* Blanchard, 1848

*A. magna*<sup>\*</sup> (Abildgaard, 1789) - (*Anomotenia plicata*)

*A. perforata*<sup>\*</sup> (Goeze, 1782)

*Equus caballus*<sup>o</sup>

*Equus caballus*<sup>o</sup>

Galli-Valerio 1901, Fuhrmann 1926

BE, GE, NE, VD, ZH

NE, VD, ZH

*Anoplocephaloides* Baer, 1923

*A. dentata* (Galli-Valerio, 1905) - (*Anoplocephala dentata*, *Paranoplocephala brevis*)

*Cricetidae*

*Cricetidae*

*Cricetidae*

*Cricetidae*

*Cricetidae*

*Myodes glareolus*

GR, VS/1996

VS/2000

VS/1968

GR, VD/1973, 1996

GE/1963

*Atrioaenia* Sandground, 1926

*A. incisa* (Railliet, 1899) - (*Oochoristica incisa*)

*Canidae*

*Mustelidae*

*Meles meles*

*Canidae*

*Mustelidae*

*C. denticulata*<sup>\*</sup> (Rudolphi 1804) - (*Ctenotaenia goezi*)

*Oryctolagus cuniculus*<sup>o</sup>

Hörming 1963

Galli-Valerio 1910

VD/1962

BL, NE, VD/1956, 1961-3

BE, VD/1910

*Ctenotaenia* Railliet, 1895

*C. marmota*<sup>\*</sup> (Froelich, 1802) - (*Citrotaenia avicola*, *C. marmotae*, *Ctenotaenia avicola*)

Anatidae	<i>Anas</i> sp. <sup>o</sup>	Fuhrmann 1897	GE (?) [1]
Scarabaeidae	<i>Amidorus obscurus</i> <sup>o</sup>	Galli-Valerio 1918, 1925	VS
Scuridae	<i>Marmota marmota</i> <sup>o</sup>	Galli-Valerio 1918, 1940, Bouvier 1963, Hörming 1966	FR, GR, UR, VD, VS/1917, 1961-4
<i>Equinia</i> Haukisalmi, 2009			
Equidae	<i>E. mamillana</i> * (Mehlis in Gutili, 1831) - ( <i>Anoplocephala mamillana</i> , <i>Anoplocephalus mamillana</i> , <i>Paranoplocephala mamillana</i> ) <i>Equus caballus</i> <sup>o</sup>		BE, NE, ZH/1920
<i>Eurotaenia</i> Haukisalmi, Hardman, Hoberg & Henttonen, 2014			
Cricetidae	<i>Chionomys nivalis</i>		VD/1994
Cricetidae	<i>Microtus agrestis</i>		VD, VS/1968, 1993
Cricetidae	<i>Microtus arvalis</i>		VD/1993
Cricetidae	<i>Microtus subterraneus</i>	Tenora & Murai 1980	UR, VS/1966, 1971
Cricetidae	<i>Myodes glareolus</i>		VD/1993
<i>Genovia</i> Haukisalmi, 2009			
Leporidae	<i>G. wimerosa</i> (Moniez, 1880) - ( <i>Anoplocephaloides wimerosa</i> , <i>Paranoplocephala wimerosa</i> ) <i>Lepus timidus</i>		VS
<i>Marmotocephala</i> Gvozdev, Zhigileva & Gulyaev, 2004			
Scuturidae	<i>M. transversaria</i> * (Krabbe, 1879) - ( <i>Paranoplocephala transversaria</i> ) <i>Marmota marmota</i>	Kreis 1962, Hörming 1966	GR
<i>Microtocola</i> Haukisalmi, Hardman, Hoberg & Henttonen, 2014			
Cricetidae	<i>M. blanchardi</i> (Moniez, 1891) - ( <i>Anoplocephala blanchardi</i> , <i>Paranoplocephala blanchardi</i> ) <i>Arvicola amphibius</i>	Gaschen 1950	VD/1993
Cricetidae	<i>Microtus agrestis</i>		VD/1974
Cricetidae	<i>Microtus arvalis</i>		
<i>Moniezia</i> Blanchard, 1891			
Bovidae	<i>M. benedenti</i> * (Moniez, 1879) - ( <i>Moniezia denticulata</i> , <i>Moniezia planissima</i> , <i>Moniezia rupicaprae</i> ) <i>Bos taurus</i> <sup>o</sup>	Fuhrmann 1926	BA, BE, NE, TG, ZH/1916
Bovidae	<i>Capra ibex</i>	Bouvier & Hörming 1963	GR/1961-3
Bovidae	<i>Bos taurus</i> <sup>o</sup>		BE, GE, ZH/1930
Bovidae	<i>Capra ibex</i>	Bouvier & Hörming 1963, Hörming 1963	GE, VD, VS/1961-3
Bovidae	<i>Ovis artes</i> <sup>o</sup>	Gaschen 1950	BE, NE, VD, ZH/1987
Bovidae	<i>Rupicapra rupicapra</i>	Hörming 1963	VS/1961-3
Cervidae	<i>Capreolus capreolus</i>	Hörming 1963	BE, GR, NE, OW, VD/1961-3, 1970-1
<i>Mosgovioya</i> Spasskii, 1951			
Leporidae	<i>M. pectinata</i> * (Goetze, 1892) - ( <i>Catenotaenia pectinata</i> , <i>Citotaenia pectinata</i> ) <i>Lepus europaeus</i>	Hörming 1963	NE, OW, TI, VD, VS/1961-3
Leporidae	<i>Lepus timidus</i> <sup>o</sup>	Galli-Valerio 1940, Hörming 1963	BE, VS, VD/1961-3, 1967
Scuturidae	<i>Marmota marmota</i>		VS/1964
<i>Neocatenotaenia</i> Tenora, 1976			
Leporidae	<i>N. ctenoides</i> (Ralliet, 1890) - ( <i>Citotaenia ctenoides</i> ) <i>Oryctolagus cuniculus</i>		BE/1976
<i>Oochoristica</i> Lühe, 1898			
Lacertidae	<i>O. rotundata</i> (Molin, 1859)		TI
<i>Paranoplocephala</i> Lühe, 1910			
Cricetidae	<i>Lacerta viridis</i>		FR, GE, JU, NE/1962-4, 1969, 1976
Cricetidae	<i>P. omphalodes</i> (Hermann, 1783) - ( <i>Andrya caucasicca</i> ) <i>Arvicola amphibius</i>	Baer 1932, Wahl 1967	VS/1994
Cricetidae	<i>Chionomys nivalis</i>		VD, VS/1961-3
Cricetidae	<i>Microtus agrestis</i>	Hörming 1963	GE, VD/1961-3, 1994
Cricetidae	<i>Microtus arvalis</i>	Baer 1932, Hörming 1963	TI/1971
Cricetidae	<i>Microtus multiplex</i>		BE, GE, NE, VS/1951, 1961-4, 1968, 1972, 1985
Cricetidae	<i>Myodes glareolus</i>	Hörming 1963, Wahl 1967	GE
Muridae	<i>Apodemus</i> sp.		
<i>Thysanitezia</i> Skjabin, 1926			
Bovidae	<i>T. giardi</i> (Moniez, 1879) - ( <i>Helicometra giardi</i> ) <i>Ovis artes</i>		GE

<i>Thysanosoma</i> Diesing, 1835			
<i>T. actiniooides</i> Diesing, 1835			
Bovidae			
<b>Catenotaeniidae Spasskii, 1950</b>			
<i>Catenotaenia</i> Janicki, 1904			
<i>C. dendritica</i> * (Goeze, 1782)			
Scutidae			
<i>C. heintoneini</i> Haukisalmi & Tenora, 1993 - ( <i>Catenotaenia pusilla</i> )			
Cricetidae			
<i>C. pusilla</i> (Goeze, 1782) - ( <i>Catenotaenia pusillum</i> )		Hörning 1963	BA, FR, VD, VS/1961-3
Muridae			
<i>Myodes glareolus</i>			
Muridae			
<i>Apodemus sylvaticus</i>		Baer 1928, Vaucher & Hunkeler 1967	BA, FR, VD, VS/1961-3
Muridae			
<i>Mus musculus</i>		Hörning 1963	NE, VS/1961-3, 1966
Muridae			
<i>Rattus rattus</i>		Baer 1928	NE, VS, VD
<i>Spasskijela</i> Tenora, 1959, 1946		Gaschen 1950	VD
<i>S. kratichvili</i> (Baer, 1925) - ( <i>Catenotaenia lobata</i> , <i>Skryabinotaenia lobata</i> )			
Cricetidae			
<i>Microtus arvalis</i>		Hörning 1963	VD/1961-3
Cricetidae			
<i>Myodes glareolus</i>		Hörning 1963, Wahl 1967	GE, VS/1961-4
Muridae		Wahl 1967	GE, VD/1962-4, 1966
<i>Apodemus flavicollis</i>		Vaucher & Hunkeler 1967, Wahl 1967	BE, GE, NE, VD/1962-4, 1966, 1972
Muridae			
<i>Apodemus sylvaticus</i>			
<b>Davaineidae Braun, 1900</b>			
<i>Davainea</i> Blanchard, 1891			
<i>D. andrei</i> Fuhrmann, 1933 - ( <i>Raillietina andrei</i> )			
Phasianidae			
<i>Pardix perdix</i> [2]		Fuhrmann 1919	GE/1933
<i>D. proglottina</i> * (Davaine, 1860) - ( <i>Raillietina proglottina</i> )			
Phasianidae			
<i>D. tetraoensis</i> * Fuhrmann, 1919		Fuhrmann 1919	BA, VS
Phasianidae			
<i>Tetrao urogallus</i> °			
<i>Fernandezia</i> Lopez-Neyra, 1936			
<i>F. spinosissima</i> (von Linstow, 1894) - ( <i>Raillietina spinosissima</i> )		Galli-Valerio 1940, Gigon & Beuret 1991	JU, NE, VD, VS/1969, 1896
Turdidae			
<i>Turdus merula</i>			
<i>Idiogenes</i> Krabbe, 1868			
<i>I. flagellum</i> * (Goeze, 1782) - ( <i>Idiogenes mastigophora</i> )			
Accipitridae			
<i>Milvus migrans</i> °		Fuhrmann 1926	BA
<i>Paronietta</i> Fuhrmann, 1920			
<i>P. urogalli</i> * (Modeer, 1790) - [ <i>Davainea urogalli</i> , <i>Raillietina (P.) urogalli</i> ]		Fuhrmann 1919	BA
Phasianidae			
<i>Lyrurus tetrix</i> °		Fuhrmann 1919	BA
<i>Tetrao urogallus</i> °			
<i>Raillietina</i> Fuhrmann, 1920			
Phasianidae			
<i>R. anatina</i> * Fuhrmann, 1909) - ( <i>Davainea anatina</i> , <i>Raillietina crassula</i> )		Fuhrmann 1926	BA
Anatidae			
<i>Anas platyrhynchos</i> °			
<i>R. echinochothrida</i> * (Megnin, 1880) - ( <i>Davainea bothrioplitis</i> )		Fuhrmann 1926	BA
Phasianidae			
<i>Gallus gallus</i> °		Fuhrmann 1926	VD
<i>R. frontina</i> (Dujardin, 1845) - [ <i>Raillietina (R.) frontina</i> ]			
Picidae			
<i>Picus viridis</i>		Baer 1932	GE
<i>R. tetragona</i> * (Molin, 1858) - [ <i>Davainea tetragona</i> , <i>Raillietina (R.) tetragona</i> ]			
Phasianidae			
<i>Gallus gallus</i> °		Galli-Valerio 1901, 1924	BA, VD, ZH
<i>Skryabinia</i> Fuhrmann, 1920			
<i>S. bonini</i> * (Megnin, 1899) - [ <i>Davainea columbae</i> , <i>Raillietina (S.) bonini</i> , <i>Raillietina columbae</i> ] [3]			
Columbidae			
<i>Columba livia</i>			
Columbidae			
<i>Columba palumbus</i> °		Fuhrmann 1926	NE/1936
<i>S. cestitillus</i> (Molin, 1858) - [ <i>Raillietina (S.) cestitillus</i> ]			SG/1999
Phasianidae			
<i>Gallus gallus</i>			BA
<b>Dilepididae Fuhrmann, 1907</b>			
<i>Anomataenia</i> Cohn, 1900			
<i>A. brevis</i> (Clerc, 1902)			
Picidae			
<i>Dendrocopos major</i>			NE/1974



<i>A. cyathiformis</i> * (Froehlich, 1771)	<i>Apus apus</i> <sup>o</sup>	Hörning 1963	GE, NE, VD, VS/1961-3
Apodidae			
<i>A. delaiscens</i> * (Krabbe, 1879)	<i>Cinclus cinclus</i> <sup>o</sup>	Fuhrmann 1926, Hörning 1963	AG, NE, SG, TI/1910, 1961-3
Cinclidae			
<i>A. microphallos</i> * (Krabbe, 1869)	<i>Vanellus vanellus</i> <sup>o</sup>	Kreis 1962	NE/1915
Charadriidae			
<i>A. microrhyncha</i> (Krabbe, 1869)	<i>Calidris pugnax</i>		NE
Scolopacidae			
<i>A. nymphaea</i> * (Schränk, 1790)	<i>Numenius arquata</i> <sup>o</sup>	Fuhrmann 1926	VD
Scolopacidae			
<i>A. stentorea</i> (Froehlich, 1802)	<i>Vanellus vanellus</i>		VD
Charadriidae			
<i>Burhinotaenia</i> Spasskii & Spasskaya, 1965			
<i>B. coronata</i> * (Creplin, 1829) - ( <i>Choanotaenia coronata</i> , <i>Paricterotaenia coronata</i> )	<i>Gallus gallus</i> <sup>o</sup>	Fuhrmann 1926, Gaschen 1950	GE/1910
Burhinidae	<i>Phasianus colchicus</i>	Gaschen 1950	VD, ZH
<i>Choanotaenia</i> Railliet, 1896			VD
<i>C. infundibulum</i> * (Bloch, 1779)	<i>Oriolus oriolus</i>	Joyeux & Baer 1955	NE/1944
Phasianidae			
<i>C. ortoli</i> Joyeux & Baer, 1955	<i>Passer domesticus</i>		NE/1965
Phasianidae			
<i>C. passerina</i> (Fuhrmann, 1907)			
Oriolidae			
Passeridae			
<i>Dictymetra</i> Clark, 1952			
<i>Dictymetra</i> sp.	<i>Dendrocopos major</i>		GE/2006
Picidae			
<i>Dilepis</i> Weinland, 1858			
<i>D. cypselina</i> Neslobinsky, 1911	<i>Apus apus</i>		GE
Apodidae	<i>Aptelis angulata</i> , <i>Dilepis undulata</i> , <i>Taenia undulata</i>		
<i>D. undulata</i> * (Schränk, 1788) - ( <i>Dilepis angulata</i> , <i>Dilepis undulata</i> , <i>Taenia undulata</i> )	<i>Alauda arvensis</i>		NE/1970
Alaudidae	<i>Corvus corone</i>	Galli-Valerio 1940	BA, FR, VD
Corvidae			NE/1972
Corvidae	<i>Corvus frugileus</i> <sup>o</sup>		VD
Corvidae	<i>Pica pica</i>	Galli-Valerio 1940	VD
Corvidae	<i>Pyrrhocorax graculus</i>	Galli-Valerio 1940	BE/1966
Muridae	<i>Apodemus sylvaticus</i>	Vaucher & Hunkeler 1967	BE, NE, VD/1966, 1969
Sorticidae	<i>Crocodyra russula</i>	Vaucher & Hunkeler 1967	BE, GR, JU, VD, VS/1965, 1966, 1971, 1984
Sorticidae	<i>Sorex araneus</i>	Vaucher & Hunkeler 1967	VD
Sturnidae	<i>Sturnus vulgaris</i>	Galli-Valerio 1940	GE, JU, NE, VD, VS/1912, 1960-9, 1973-4, 1985-7
Turdidae	<i>Turdus merula</i> <sup>o</sup>	Galli-Valerio 1912, Hörning 1963, Gigon & Beuret 1991	JU, NE/1965, 1986
Turdidae	<i>Turdus philomelos</i>	Gigon & Beuret 1991	NE/1986
Turdidae	<i>Turdus pilaris</i>		GE, VD
Turdidae	<i>Turdus viscivorus</i>		
<i>Emberizotaenia</i> Spasskaya, 1970 - ( <i>Unciunia raymondii</i> )			
<i>E. raymondii</i> (Gigon & Beuret, 1991)	<i>Turdus philomelos</i>	Gigon & Beuret 1991	JU/1986
Turdidae			
<i>Hepatocestus</i> Bona, 1994	<i>Hepatocestus hepatica</i>		VD, VS/1966
<i>H. hepaticus</i> (Baer, 1932) - ( <i>Choanotaenia hepatica</i> )	<i>Sorex araneus</i>		
Sorticidae			
<i>Liga</i> Weinland, 1857			
<i>Liga</i> sp.	<i>Dendrocopos major</i>		GE/2006
Picidae			
<i>L. gallinulae</i> (van Beneden, 1858)	<i>Gallinula chloropus</i>	Hörning 1963	VD/1961-3
Rallidae			
<i>Molluscoetaenia</i> Spasskii & Andreiko, 1971			
<i>M. crassicolex</i> (von Linstow, 1890) - ( <i>Choanotaenia crassicolex</i> , <i>Monophylidum scutigerrum</i> )	<i>Arion</i> sp.		NE/1979
Arionidae			

Soricidae	<i>Neomys fodiens</i>	Vaucher & Hunkeler 1967	VD/1966
Soricidae	<i>Sorex alpinus</i>		GR, VS, VD/1966, 1971, 1972
Soricidae	<i>Sorex araneus</i>	Baer 1932, Vaucher & Hunkeler 1967, Wahl 1967	CH/1931, 1964-1974, 1984, 1994, 1996
Soricidae	<i>Sorex minimus</i>	Vaucher & Hunkeler 1967, Vaucher 1971	VD, VS/1984
<i>Monopylidium</i> Fuhrmann, 1899			
<i>M. albanii</i> (Mettrick, 1958) - ( <i>Polycercus albanii</i> )			
Sturmiidae	<i>Sturmus vulgaris</i>	Gigon & Beuret 1991, Komisarovas <i>et al.</i> 2007	JU/1986
<i>M. crateriformis</i> * (Goeze, 1782) - ( <i>Choanotaenia crateriformis</i> )			
Picidae	<i>Dendrocopos major</i> °	Fuhrmann 1926	BA, FR, NE/1954
Picidae	<i>Jynx torquilla</i>	Galli-Valerio 1940	GE, NE
Picidae	<i>Picus viridis</i> °	Fuhrmann 1926	NE/1944
Orioliidae	<i>Oriolus oriolus</i>		
<i>M. musculosus</i> * (Fuhrmann, 1896) - ( <i>Monopylidium musculosum</i> )			
Passeridae	<i>Passer domesticus</i>	Fuhrmann 1926	BA/1947
Sturmiidae	<i>Sturmus vulgaris</i> °	Gigon 1988	BA, JU/1986
Sylviidae	<i>Sylvia borin</i>		JU/1986
<i>Multitesticulata</i> Meggitt, 1927			
<i>M. filamentosa</i> * (Goeze, 1782) - ( <i>Choanotaenia filamentosa</i> , <i>Monopylidium filamentosum</i> , <i>Taenia blanchardi</i> ) [4]		Baer 1932, Hörning 1963, Vaucher & Hunkeler 1967	BE, GE, GR, JU, NE, VD, VS/1961-7, 1971, 1976
Talpidae	<i>Talpa europaea</i> °		
<i>Neoliga</i> Singh, 1952			
<i>N. depressa</i> * (von Siebold, 1836) - ( <i>Anomotaenia depressa</i> )			
Apodidae	<i>Apus apus</i> °		
Apodidae	<i>Tachymarpis melba</i>		
<i>Parietotaenia</i> Fuhrmann, 1932			
<i>P. parva</i> (Rudolphi, 1802)			
Paridae	<i>Parus major</i>	Hörning 1963	NE, VD/1961-3, 1984
<i>P. megarantha</i> (Rudolphi, 1810) - ( <i>Choanotaenia megarantha</i> )			
Caprimulgidae	<i>Caprimulgus europaeus</i>	Galli-Valerio 1940	VS
<i>P. porosa</i> * (Rudolphi, 1810) - ( <i>Choanotaenia porosa</i> , <i>Icterotaenia porosa</i> )			
Laridae	<i>Chroicocephalus ridibundus</i> °	Hörning 1963	BE, FR, GE, NE, VD, VS/1961-3, 1984
<i>Platycolex</i> Spasskaya, 1962			
<i>P. ciliata</i> (Fuhrmann, 1913) - ( <i>Anomotaenia ciliata</i> , <i>Uncinia ciliata</i> )			
Anatidae	<i>Anas platyrhynchos</i>	Szelenbaum-Cielecka <i>et al.</i> 1988	N/1981-5
<i>Pseudoangularia</i> Burt, 1938			
<i>Pseudoangularia</i> . sp.			
Apodidae	<i>Apus apus</i>		
<i>Sacciterina</i> Matevosyan, 1963			
<i>S. paradoxa</i> * (Rudolphi, 1802) - ( <i>Icterotaenia paradoxa</i> )			
Charadriidae	<i>Vanellus vanellus</i> °	Fuhrmann 1926	NE
Scolopacidae	<i>Scolopax rusticola</i> °	Fuhrmann 1926	NE
<i>Sobolevitaenia</i> Spasskaya & Makarenko, 1965			
<i>S. spinoscapitae</i> (Joyeux & Baer, 1955) - ( <i>Choanotaenia spinoscapitae</i> )			
Sturmiidae	<i>Sturmus vulgaris</i>		JU, NE/1959, 1986
Turdidae	<i>Turdus merula</i>		JU/1985
Turdidae	<i>Turdus philomelos</i>		NE/1965
<i>S. verulamii</i> (Mettrick, 1958) - ( <i>Spiniglanis constricta</i> , <i>Anomotaenia constricta</i> )			
Glomeridae	<i>Glomeris</i> sp.		
Turdidae	<i>Turdus merula</i>	Beuret 1988	NE
Turdidae			NE/1973
<i>Spasskasskaya</i> Bona, 1994			
<i>S. passerum</i> (Joyeux & Timon-David, 1934) - ( <i>Anomotaenia passerum</i> )			
Turdidae	<i>Turdus merula</i>		NE/1966, 1974
Turdidae	<i>Turdus</i> sp.		GE/1959
<i>Spiniglanis</i> Yamaguti, 1959			
<i>S. affinis</i> (Krabbe, 1869) - ( <i>Spiniglanis constricta</i> )			
Corvidae	<i>Corvus frugileus</i>		
<i>S. constricta</i> * (Molin, 1858) - ( <i>Anomotaenia constricta</i> )			

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Corvidae	<i>Corvus corone</i> <sup>o</sup>	Fuhrmann 1926	BA
Corvidae	<i>Corvus frugileus</i> <sup>o</sup>	Fuhrmann 1926, Beuret 1988	BA, JU
Turdidae	<i>Turdus merula</i>	Guenat 1964	BE
Turdidae	<i>Turdus philomelos</i>		BA
<b>Dioecestidae Southwell, 1930</b>			
<i>Dioecestus</i> Fuhrmann, 1900			
<i>D. asper</i> * (Mehlis, 1831) - ( <i>Dioecestus aspera</i> )			
Podicipedidae	<i>Podiceps auritus</i>	Fuhrmann 1926	NE
Podicipedidae	<i>Tachybaptus ruficollis</i> <sup>o</sup>		N
<b>Dipylidiidae Railliet, 1896</b>			
<i>Dipylidium</i> Leuckart, 1863			
<i>D. caninum</i> * (Linnaeus, 1758)			
Canidae	<i>Canis familiaris</i> <sup>o</sup>	Galli-Valerio 1939	NE, VD, BA, VS/1975
Canidae	<i>Vulpes vulpes</i>	Hörning 1963	NE/1961-3
Felidae	<i>Felis silvestris</i> <sup>o</sup>	Galli-Valerio 1901, 1921, 1939	BA, GE, NE, VD, VS/1925, 974, 1990
Hominidae	<i>Homo sapiens</i> <sup>o</sup>	Fuhrmann 1926	BA, ZH
<b>Gryporhynchidae Spasskii &amp; Spasskaja, 1973</b>			
<i>Paradilepis</i> Hsü, 1935			
<i>P. scolecina</i> * (Rudolphi, 1819) - ( <i>Dilepis scolecina</i> )			
Phalacrocoracidae	<i>Phalacrocorax carbo</i> <sup>o</sup>		GE, NE
<b>Hymenolepididae Perrier, 1897</b>			
<i>Anatinella</i> Spasskii & Spasskaja, 1954			
<i>A. kazachstanica</i> (Maksimova, 1963) - ( <i>Monosacchantes kazachstanica</i> )			
Anatidae	<i>Cygnus olor</i>		NE/1981
<i>Aploparaksis</i> Clerc, 1903 - (Haploparaxis)			
<i>A. citrosa</i> * (Krabbe, 1869) - ( <i>Drepanidotaenia citrosa</i> )			N
Laridae	<i>Chroicocephalus ridibundus</i> <sup>o</sup>		
<i>A. crassirostris</i> (Krabbe, 1869)			
Scolopacidae	<i>Scolopax rusticola</i>		
<i>A. filum</i> * (Goeze, 1782) - ( <i>Haploparaxis filum</i> , <i>Taenia filum</i> )			
Scolopacidae	<i>Gallinago gallinago</i>		
Scolopacidae	<i>Scolopax rusticola</i>		
Scolopacidae	<i>Tringa totanus</i> <sup>o</sup>	Galli-Valerio 1901	NE, N BA, NE VD
<i>A. furcigera</i> * (Nitsch in Rudolphi, 1819) - ( <i>Hymenolepis furcigera</i> )			
Anatidae	<i>Anas platyrhynchos</i>		N/1981-5
Anatidae	<i>Aythya fuligula</i> <sup>o</sup>		NE
Podicipedidae	<i>Podiceps cristatus</i>	Szelenbaum-Cielecka <i>et al.</i> 1988	1919
<b>Armadolepis</b> Spasskii, 1954			
<i>A. (Armadolepis) jeanbaeri</i> Makarikov, 2017 - ( <i>Hymenolepis myoxi</i> , <i>Rodentolepis myoxi</i> )		Baer 1932, Makarikov 2017, Makarikov & Georgiev 2020	GR, VS [5]/1931, 1971-2
Gliridae	<i>Eliomys quercinus</i>	Faivre & Vaucher 1978, Makarikov & Georgiev 2020	JU/1976
Gliridae	<i>Glis glis</i>		
<b>Arostrilepis</b> Mas-Coma & Tenora, 1997			
<i>A. horrida</i> (von Linstow, 1901) - ( <i>Hymenolepis horrida</i> )			
Cricetidae	<i>Arvicola amphibius</i>	Baer 1932, Hörning 1963	FR, GE, JU, VD, VS, ZH/1961-3, 1976, 1994-6
Cricetidae	<i>Microtus (Pitymys) sp.</i>		GR/1971
<i>A. janickii</i> Makarikov & Kontrimavichus, 2011 - ( <i>Arostrilepis horrida</i> )			
Cricetidae	<i>Arvicola amphibius</i>	Makarikov & Kontrimavichus 2011	JU, VD, GE/1976, 1994
<b>Cladogynia</b> Baer 1938			
<i>C. guberiana</i> (Czaplinski, 1965) - ( <i>Retinometra guberiana</i> )			
Anatidae	<i>Cygnus olor</i>	Szelenbaum-Cielecka <i>et al.</i> 1988	NE/1981, 1985
<i>C. macracanthos</i> * (von Linstow, 1877) - ( <i>Hymenolepis macracanthos</i> )			
Anatidae	<i>Mergus merganser</i>		NE
Anatidae	<i>Mergus serrator</i> <sup>o</sup>		NE
<i>C. serrata</i> * (Fuhrmann, 1906) - ( <i>Hymenolepis serrata</i> )			
Columbidae	<i>Columba palumbus</i>	Fuhrmann 1926	VD/1961-3
Columbidae	<i>Columba livia</i> <sup>o</sup>	Hörning 1963	GE

<i>Cloacotaenia</i> Wolfhügel, 1938			
<i>C. megalops</i> * (Nitzsch in Creplin, 1829) - ( <i>Hymenolepis megalops</i> )			N/1981-5
<i>Anas platyrhynchos</i>			GE
<i>Tadorna tadorna</i> *	Fuhrmann 1926		
<i>Confluaria</i> Blasov in Spasskaya, 1966			
<i>C. fureifera</i> * (Krabbe, 1869) - ( <i>Hymenolepis fureifera</i> )			N
Podicipedidae			L
<i>Podiceps cristatus</i> *	Fuhrmann 1926		
<i>Podiceps nigricollis</i> *	Fuhrmann 1926		
<i>C. multistriata</i> * (Rudolphi, 1810) - ( <i>Hymenolepis multistriata</i> , <i>Taenia multistriata</i> )			M
Podicipedidae			BA
<i>Podiceps cristatus</i> *	Fuhrmann 1926		
<i>Tachybaptus ruficollis</i> *			GE, NE/1947, 1969
<i>C. pseudofurcifera</i> Vasileva, Georgiev & Genov, 2000 - ( <i>Confluaria fureifera</i> , <i>Hymenolepis podicipedina</i> )	Vasileva <i>et al.</i> 2000		
<i>Podiceps cristatus</i>			
<i>Coronacanthus</i> Spasskii, 1954			
<i>C. integrus</i> * (Hamann, 1891) - ( <i>Hymenolepis integra</i> , <i>H. polyacantha</i> )			
Gammaridae			
<i>Gammarus pulex</i> *	L Fuhrmann 1926, Vaucher & Hunkeler 1967		VD, NE/1966
Soricidae			VD
<i>Neomys anomalus</i>	Vaucher 1971		
Soricidae			
<i>Neomys fodiens</i>	Baer 1931, 1932, Wahl 1967, Vaucher 1971		GE, NE, VD/1964, 1968, 1973
<i>C. omisus</i> (Baer & Joyeux, 1943) - ( <i>Hymenolepis omisus</i> )			
Gammaridae			
<i>Gammarus pulex</i>	L Baer & Joyeux 1943		GE, NE/1968
Soricidae			VD
<i>Neomys anomalus</i>	Vaucher 1971		
Soricidae			
<i>Neomys fodiens</i>	Baer & Joyeux 1943		GE, NE/1931, 1943, 1968
<i>Cryptocotylepis</i> Skrjabin & Mathevossian, 1948			
<i>C. globosoides</i> (Soltys, 1954) - ( <i>Hymenolepis fodientis</i> , <i>H. globosoides</i> , <i>Pseudobotrialepis globosoides</i> )			
Soricidae			
<i>Neomys fodiens</i>	Vaucher & Hunkeler 1967, Wahl 1967, Vaucher 1971		GE, NE, VS/1962, 1974, 1993
Soricidae			NE/1974
<i>Dicranotaenia</i> Railliet, 1892			
<i>D. coronula</i> * (Dujardin, 1845) - ( <i>Hymenolepis coronula</i> )			
Anatidae			
<i>Anas platyrhynchos</i> *			
Anatidae			
<i>Aythya marila</i> *	Fuhrmann 1926		NE
Anatidae			BA
<i>Mergus merganser</i>			NE
Cyprididae			M, N/1985
<i>Cyclocypris laevis</i>	L Szelenbaum-Cielecka <i>et al.</i> 1988		
<i>Diorechis</i> Clerc, 1903			
<i>D. acuminata</i> * (Clerc, 1902)			
Anatidae			
<i>Mergus serrator</i>			NE
Rallidae			N
<i>Fulca atra</i> *	Fuhrmann 1926		
<i>D. brevis</i> Rybicka, 1957			
Cyprididae			
<i>Cypridopsis vidua</i>	L Szelenbaum-Cielecka <i>et al.</i> 1988		M, N/1985
Rallidae			N/1981-5
<i>Fulca atra</i>			
<i>D. elisae</i> (Skrjabin, 1914)			
Anatidae			
<i>Anas platyrhynchos</i>			N/1981-5
<i>D. inflata</i> (Rudolphi, 1819) - ( <i>Taenia inflata</i> )			
Cyprididae			
<i>Cypridopsis vidua</i>	L Szelenbaum-Cielecka <i>et al.</i> 1988		M, N/1985
Rallidae			GE, NE, N/1917, 1981-5
<i>Fulca atra</i>			
<i>D. ransomi</i> Schultz, 1940			
Candonidae			
<i>Camdona</i> sp.	L Szelenbaum-Cielecka <i>et al.</i> 1988		M, N/1985
Cyprididae			
<i>Cypridopsis vidua</i>	L Szelenbaum-Cielecka <i>et al.</i> 1988		M, N/1985
Rallidae			N/1981-5
<i>Fulca atra</i>			
<i>Diploposthe</i> Jacobi, 1896			
<i>D. laevis</i> * (Bloch, 1782)			
Anatidae			
<i>Aythya ferina</i> *	Fuhrmann 1926		L
Anatidae			NE/1917
<i>Netta rufina</i> *			
<i>Ditestolepis</i> Soltys, 1952			
<i>D. diaphana</i> (Cholodkovsky, 1906) - ( <i>Hymenolepis diaphana</i> )			
Soricidae			
<i>Sorex alpinus</i>	Vaucher & Hunkeler 1967, Vaucher 1971		GR/1971
Soricidae			BE, FR, GR, NE, TI, VD, VS/1959, 1964-74, 1996
<i>Sorex araneus</i>	Vaucher & Hunkeler 1967, Vaucher 1971		GR, NE, VS/1960, 1966, 1971
Soricidae			
<i>Sorex minutus</i>	Vaucher & Hunkeler 1967, Vaucher 1971		



<i>H. microps</i> * (Dresing, 1850) - ( <i>Hymenolepis tetraonis</i> ) Phasianidae <i>Tetrao urogallus</i> <sup>o</sup>	Hörning 1963	VD/1961-3
<i>H. murissylvatici</i> (Rudolphi, 1819) - ( <i>Hymenolepis muris-sylvatici</i> , <i>Rodentolepis fraternna</i> , <i>Rodentolepis muris-sylvatici</i> ) Muridae <i>Apodemus flavicollis</i> <i>Apodemus sylvaticus</i>	Vaucher & Hunkeler 1967 Baer 1931, 1932, Vaucher & Hunkeler 1967	BE, NE, VD/1965-6, 1968 BE, GE, NE, VD/1930, 1965-6, 2001
<i>H. procer</i> Janicki, 1904 ( <i>sp. inquirenda</i> ) Cricetidae <i>Arvicola amphibius</i>	Gaschen 1950	VD
<i>H. simulans</i> Joyeux & Baer, 1941 Gaviidae <i>Gavia arctica</i>	Joyeux & Baer 1941	NE
<i>Hymenolepis</i> sp. [9] Canidae <i>Vulpes vulpes</i>		NE/1948
<i>H. sphaerophora</i> * (Rudolphi, 1810) - ( <i>Taenia sphaerophora</i> ) Scolopacidae <i>Numenius arquata</i> <sup>o</sup>	Galli-Valerio 1901	VD
<i>H. sulcata</i> (von Linstow, 1879) Gliridae <i>Glis glis</i>		JU/1976
<i>H. teresoides</i> * Fuhrmann, 1906 Anatidae <i>Netta rufina</i> <sup>o</sup>		GE, L
<i>H. tichodroma</i> * Fuhrmann, 1908 Sittidae <i>Tichodroma muraria</i> <sup>o</sup>	Fuhrmann 1926	BA
<i>H. uliginosa</i> (Krabbe, 1882) Scolopacidae <i>Numenius arquata</i>		FR
<i>Lineolepis</i> Spasskii, 1959 <i>L. scutigera</i> (Dujardin, 1845) - ( <i>Hymenolepis scutigera</i> , <i>Hymenolepis toxometra</i> , <i>Staphylocystis toxometra</i> ) Cricetidae <i>Myodes glareolus</i> [10] Soricidae <i>Crocodyura russula</i> Soricidae <i>Sorex araneus</i> Soricidae <i>Sorex minutus</i>	Baer 1928 Baer 1928, 1932, Vaucher & Hunkeler 1967	GR/1971 GE, VS CH/1931, 1965-1974, 1984 GR/1971
<i>Microsomacanthus</i> Lopez-Neyra, 1942 <i>M. abortiva</i> (von Linstow, 1904) - ( <i>Hymenolepis abortiva</i> ) Anatidae <i>Anas platyrhynchos</i> <sup>o</sup>		NE/1926
<i>M. arcuata</i> * (Kowalewski, 1904) [11] - ( <i>Hispaniolepis arcuata</i> , <i>Hispaniolepis villosoides</i> , <i>Hymenolepis arcuata</i> , <i>Hymenolepis villosoides</i> ) Anatidae <i>Aythya fuligula</i> <sup>o</sup> <i>Aythya marila</i> <sup>o</sup> <i>Aythya</i> sp.	Fuhrmann 1926 Fuhrmann 1926 Fuhrmann 1926	NE, L NE GE
<i>M. collaris</i> * (Batsch, 1786) - ( <i>Hymenolepis collaris</i> ) Anatidae <i>Anas platyrhynchos</i> <i>Aythya fuligula</i> <sup>o</sup> <i>Netta rufina</i>	Fuhrmann 1926	NE N NE
<i>M. compressa</i> (Linton, 1892) - ( <i>Hymenolepis compressa</i> ) Anatidae <i>Anas platyrhynchos</i> <i>Aythya fuligula</i> <sup>o</sup> <i>Aythya</i> sp.	Szelenbaum-Cielecka <i>et al.</i> 1988 Fuhrmann 1926	N/1981-5 GE, N NE
<i>M. microcephalus</i> * (Rudolphi, 1819) - ( <i>Hymenolepis microcephala</i> , <i>Taenia multififormis</i> ) Ciconiidae <i>Ciconia ciconia</i> <sup>o</sup> <i>Somateria mollissima</i>	L L Fuhrmann 1926	M, N/1985 M, N/1985
<i>M. microsoma</i> (Creplin, 1829) - ( <i>Hymenolepis microsoma</i> ) Anatidae <i>Somateria mollissima</i>		BA
<i>M. paracompressa</i> (Czaplinski, 1956) Anatidae <i>Anas platyrhynchos</i>	Szelenbaum-Cielecka <i>et al.</i> 1988	GE/1914
<i>M. parvula</i> (Kowalewski, 1904) Anatidae <i>Anas platyrhynchos</i>	Szelenbaum-Cielecka <i>et al.</i> 1988	N/1981-5
<i>M. pseudorostellatus</i> (Joyeux & Baer, 1950) - ( <i>Hymenolepis pseudorostellata</i> ) Gaviidae <i>Gavia immer</i>	Joyeux & Baer 1950	N/1981-5 N
<i>M. setigera</i> (Froelich, 1789) - ( <i>Hymenolepis setigera</i> ) Anatidae <i>Anser fabalis</i> [12] Anatidae <i>Aythya fuligula</i> <sup>o</sup> Anatidae <i>Aythya marila</i> <sup>o</sup>	Hörning 1963 Fuhrmann 1926 Fuhrmann 1926	VD/1961-3 NE, N BA

<i>M. spirallibursata</i> (Czaplinski, 1956)	<i>Anas platyrhynchos</i>	Szelenbaum-Cielecka <i>et al.</i> 1988	N/1981-5
Anatidae	<i>Macrocyclops albidus</i>	Szelenbaum-Cielecka <i>et al.</i> 1988	M, N/1985
Cyclopidae			
<i>Milina</i> van Beneden, 1873			
Vesperiilionidae	<i>Myotis myotis</i>	Vaucher & Hunkeler 1967	NE/1966
<i>Monoreholepis</i> Oshmann, 1961			
<i>M. diyardini</i> * (Krabbe, 1869) - ( <i>Hymenolepis grisea</i> )			
Sturidae	<i>Sturnus vulgaris</i> <sup>o</sup>	Fuhrmann 1926	BA
Turdidae	<i>Turdus merula</i>		NE/1968
<i>Neomylepis</i> Tkach, 1998			
Soricidae	<i>N. magnirostellata</i> (Baer, 1931) - ( <i>Hymenolepis magnirostellata</i> , <i>Staphylocystis magnirostellata</i> )	Baer 1931, Vaucher & Hunkeler 1967	VD, NE, VS/1931, 1968, 1973
<i>Neoskrjabinolepis</i> Spasskii, 1947			
<i>N. merkushevae</i> Kornienko & Binknen, 2008 - ( <i>Hymenolepis schaldybini</i> , <i>Neoskrjabinolepis schaldybini</i> )	<i>Sorex alpinus</i>	Vaucher 1971	VD, VS/1966, 1972
Soricidae	<i>Sorex araneus</i>	Vaucher 1971	GR, NE, TI, VD, VS/1964-8, 1971, 1984, 1993
Soricidae	<i>Sorex minutus</i>	Vaucher 1971	GR, VD, VS/1966, 1968, 1971
<i>N. schaldybini</i> Spasskii, 1947 - ( <i>Hymenolepis schaldybini</i> , <i>Neoskrjabinolepis singularis</i> )	<i>Sorex alpinus</i>	Vaucher 1971	
Soricidae	<i>Sorex araneus</i>	Vaucher 1971	
Soricidae	<i>Sorex minutus</i>	Vaucher 1971	
<i>N. singularis</i> (Cholodkovsky, 1912) - ( <i>Hymenolepis singularis</i> )	<i>Myodes glareolus</i> [10]		
Cricetidae	<i>Sorex araneus</i>	Baer 1932, Vaucher 1971	CH/1930, 1959, 1964-1972-4, 1993, 1996
Soricidae			GR, NE, VD/1960, 1965, 1968, 1971-2, 1984, 2001
<i>Parabissacanthus</i> Maksimova, 1963			
Anatidae	<i>Cygnus olor</i>	Joyeux & Baer 1950	GR/1971
<i>P. bisaculina</i> (Szpotanska, 1931) - ( <i>Hymenolepis bisaculina</i> )			BE, GR, NE, VD, VS/1965-9, 1971-2
Anatidae	<i>Cygnus olor</i>	Szelenbaum-Cielecka <i>et al.</i> 1988	N
Cyclopidae	<i>Acanthocyclops viridis</i>	Szelenbaum-Cielecka <i>et al.</i> 1988	N/1981-5
<i>P. philactes</i> (Schiller, 1951)			M, N/1985
Cyclopidae	<i>Cygnus olor</i>	Szelenbaum-Cielecka <i>et al.</i> 1988	NE, N/1981, 1985
<i>Pararodentolepis</i> Makarikov & Gulyaev, 2009	<i>Eucyclops serratulus</i>	Szelenbaum-Cielecka <i>et al.</i> 1988	M, N/1985
<i>P. fraternus</i> * (Stiles, 1906) - ( <i>Hymenolepis murina</i> , <i>Rodentolepis, fraternus</i> )			
Muridae	<i>Apodemus flavicollis</i>	Baer & Tenora 1970	NE, VS
Muridae	<i>Apodemus sylvaticus</i>	Galli-Valerio 1940	NE, VD
Muridae	<i>Mus musculus</i>	Baer 1928	BE, VD, VS
Muridae	<i>Rattus rattus</i> <sup>o</sup>		
<i>Passerilepis</i> Spasskii & Spasskaya, 1954			
<i>P. brevis</i> (Fuhrmann, 1906) - ( <i>Microsomacanthus brevis</i> )	<i>Sylvia atricapilla</i>	Gigon & Beuret 1991	JU/1986
Sylviidae	<i>Sylvia atricapilla</i>	Gigon & Beuret 1991	
Corvidae	<i>Corvus corone</i> <sup>o</sup>	Galli-Valerio 1940, Hörmig 1963	BA, FR, NE, TG, VD, VS/1961-3
Corvidae	<i>Garrulus glandarius</i>	Galli-Valerio 1924, Hörmig 1963	NE, VD, VS/1961-3, 1972
Corvidae	<i>Nucifraga caryocatactes</i>	Galli-Valerio 1940, Hörmig 1963	GE, VD, VS/1961-3
Corvidae	<i>Pica pica</i>	Hörmig 1963	VD, VS/1961-3
Picidae	<i>Dendrocopos major</i>	Gigon 1988	GE, JU, NE/1973, 1986, 2001
Sturidae	<i>Sturnus vulgaris</i>		JU, NE/1986-7
Turdidae	<i>Turdus merula</i>		BA, JU, NE/1966, 1985-6
Turdidae	<i>Turdus philomelos</i>		JU, NE/1965, 1986
Turdidae	<i>Turdus pilaris</i>		JU/1986
Turdidae	<i>Turdus viscivorus</i>	Gaschen 1950	VD, VS
<i>P. passeris</i> * (Gmelin, 1790) - ( <i>Hymenolepis fringillarum</i> , <i>Microsomacanthus passeris</i> )			
Fringillidae	<i>Fringilla coelebs</i>	Gaschen 1950	VS
Muscicapidae	<i>Phoenicurus ochruros</i>	Gigon 1988	NE/1987

Passeridae	<i>Passer domesticus</i> <sup>o</sup>	Galli-Valerio 1940	BA, GE, NE, VD/1970, 1985
Sylviidae	<i>Sylvia atricapilla</i>	Beuret 1988	JU, NE/1986-7
Sylviidae	<i>Sylvia borin</i>	Gigon 1988	JU/1986
<i>P. stylosa</i> * (Rudolphi, 1809) - ( <i>Hymenolepis</i> <i>stylosa</i> , <i>Microsomacanthus stylosa</i> , <i>Taenia stylosa</i> )			
Corvidae	<i>Corvus glandarius</i> <sup>o</sup>		
Corvidae	<i>Pica pica</i>		
<i>Pseudhymenolepis</i> Joyeux & Baer, 1935			
<i>P. redonica</i> Joyeux & Baer, 1935			
Sorticidae	<i>Crocodyra russula</i>	Vaucher & Hunkeler 1967	GE, NE, VD/1964-6, 1968, 1983
<i>Rodentolepis</i> Spasskii, 1954 (s. lato)			
<i>R. asymmetrica</i> (Janicki, 1904) - ( <i>Hymenolepis</i> <i>arvicola</i> , <i>Hymenolepis asymmetrica</i> , <i>Hymenolepis asymmetrica</i> , <i>Hymenolepis horrida</i> )			
Cricetidae	<i>Chionomys nivalis</i>	Baer 1932	TI, VD, VS/1968, 1994, 1997
Cricetidae	<i>Microtus agrestis</i>	Vaucher & Hunkeler 1967	NE, VD/1966-7, 1993-4
Cricetidae	<i>Microtus arvalis</i>	Baer 1932, Hörning 1963	VD, VS/1933, 1961-3, 1968, 1993
Cricetidae	<i>Microtus subterraneus</i>		TI, UR, VD, VS/1968, 1971, 1973, 1994
Cricetidae	<i>Myodes glareolus</i>	Baer & Tenora 1970	GE, GR, JU, NE/19765, 1967, 1971
Cricetidae	<i>Microtus (Pitymys)</i> sp.		GR, VD/1971, 1973
<i>R. erinacei</i> (Gmelin, 1790) - ( <i>Hymenolepis</i> <i>erinacei</i> )			
Ermaceidae	<i>Erinaceus europaeus</i>	Hörning 1963	GE, VD/1961-3
<i>R. microstoma</i> (Dujardin, 1845) - ( <i>Hymenolepis</i> <i>microstoma</i> )			
Carabidae	<i>Anchomenus dorsalis</i>	L	NE/1965 [13]
Leptopsyllidae	<i>Leptopsylla segnis</i>	L	NE
Muridae	<i>Apodemus</i> sp.		NE/1966
Muridae	<i>Apodemus flavicollis</i>	Vaucher & Hunkeler 1967, Wahl 1967	BE, GE, NE, VD/1962
Muridae	<i>Apodemus sylvaticus</i>	Vaucher & Hunkeler 1967, Wahl 1967	BE, GE, NE, VD/1962-4, 1966
Muridae	<i>Mus musculus</i>	Hörning 1963	VD/1961-3
<i>R. straminea</i> (Goeze, 1782) - ( <i>Hymenolepis</i> <i>straminea</i> )			
Cricetidae	<i>Myodes glareolus</i>		VD/1966
Muridae	<i>Apodemus flavicollis</i>		JU, NE/1965-8
Muridae	<i>Apodemus sylvaticus</i>		NE, VD/1965, 1994, 2001
<i>Skarjabinacanthus</i> Spasskii & Morozov, 1959			
<i>S. jacutensis</i> Spasskii & Morozov, 1958			
Sorticidae	<i>Soxer minutus</i>	Vaucher 1971	VS/1966
<i>Sobolevicanthus</i> Spasskii & Spasskaja, 1954			
<i>S. fragilis</i> (Krabbe, 1869) - ( <i>Hymenolepis</i> <i>fragilis</i> )			
Anatidae	<i>Anas crecca</i>		
<i>S. gracilis</i> * (Zeder, 1803) - ( <i>Hymenolepis</i> <i>gracilis</i> )			
Anatidae	<i>Anas platyrhynchos</i> <sup>o</sup>	Szelenbaum-Cielecka <i>et al.</i> 1988	BA, NE, M, N/1981-5
Anatidae	<i>Aythya fuligula</i> <sup>o</sup>	Fuhrmann 1926	NE, L, N
Candoniidae	<i>Candona</i> sp.	L	M, N/1985
Cycolopidae	<i>Paracyclops fimbriatus</i>	L	M, N/1985
Cyprididae	<i>Cypridopsis vidua</i>	L	M, N/1985
<i>S. gracilissimus</i> Czaplinski & Czaplinska, 1990			
Anatidae	<i>Anas platyrhynchos</i>		NE/1985
<i>S. krabbella</i> (Hughes, 1940)			
Anatidae	<i>Anas platyrhynchos</i>		N/1981-5
<i>Sorticinia</i> Spasskii & Spasskaja, 1954			
<i>S. globosa</i> (Baer, 1931) - ( <i>Hymenolepis</i> <i>globosa</i> )			
Sorticidae	<i>Neomys fodiens</i>	Baer 1931	VS/1931, 1994
Sorticidae	<i>Neomys infirma</i>		
Sorticidae	<i>Soxer alpinus</i>	Vaucher 1971	VD
Sorticidae	<i>Soxer araneus</i>	Vaucher & Hunkeler 1967, Vaucher 1971	GR, NE, TI, VD, VS/1965-6, 1968-74, 1996
Sorticidae	<i>Soxer minutus</i>	Vaucher 1971	VS/1966
<i>Staphylocystis</i> Spasskii & Oshmarin 1954			
<i>S. acuta</i> (Rudolphi, 1819) - ( <i>Taenia obtusata</i> )			
Vespertilionidae	<i>Nyctalus noctula</i>	Galli-Valerio 1926	VD



<i>S. alpestris</i> Baer, 1931- ( <i>Hymenolepis alpestris</i> )	Baer 1931	VS/1932
Soricidae		
<i>S. bacillaris</i> * (Goetze, 1882) - ( <i>Hymenolepis bacillaris</i> )	Fuhrmann 1926, Gaschen 1950	FR, VD, VS
Talpidae		
<i>S. brusatae</i> (Vaucher, 1971)	Vaucher 1971	TI/1970, 1975
Soricidae		
<i>S. furcata</i> (Stieda, 1862) - ( <i>Hymenolepis furcata</i> )	Wahl 1967	GE/1963
Soricidae		
<i>S. araneus</i>	Baer 1932, Vaucher 1971	BE, GE, NE, VD, VS/1943, 1962, 1964-9
Soricidae		
<i>S. minutus</i>	Vaucher & Hunkeler 1967, Vaucher 1971	CH/1931, 1965-72, 1984, 1993-4
Soricidae		
<i>S. pistillum</i> * (Dujardin, 1845) - ( <i>Hymenolepis pistillum</i> )	Wahl 1967, Vaucher 1971	NE, VD/1966
Glomeridae		
<i>Glomeris marginata</i>	Galli Valerio 1924	GE
Soricidae		
<i>Crocidiura russula</i>	Galli Valerio 1912, Wahl 1967	BE, GE, NE, VD, VS/1943, 1962, 1964-9
Soricidae		
<i>Sorex alpinus</i> * [14]	Vaucher & Hunkeler 1967, Vaucher 1971	GE, VD, VS/1912, 1963
Soricidae		
<i>Sorex araneus</i> [14]	Baer 1932	BE, GE, JU, NE, VD/1964-6, 1968-9
Soricidae		
<i>S. tiara</i> (Dujardin, 1845) - ( <i>Hymenolepis tiara</i> )	Wahl 1967	GE/1963
Soricidae		
<i>Crocidiura russula</i>	Vaucher & Hunkeler 1967	BE, NE, VD/1943, 1964, 1966-9
Soricidae		
<i>Crocidiura</i> sp.	Vaucher & Hunkeler 1967	TI/1969
Soricidae		
<i>Crocidiura suaveolens</i>	Baer 1928	TI/1965, 1970
Soricidae		
<i>Sorex araneus</i>	Baer 1932	VS
Soricidae		
<i>S. taxometra</i> Baer, 1932 - ( <i>Hymenolepis taxometra</i> )	Vaucher & Hunkeler 1967, Vaucher 1971	VS/1931
Soricidae		
<i>Sorex araneus</i>		
Soricidae		
<i>S. uncinata</i> (Stieda, 1862) - ( <i>Hymenolepis uncinata</i> , <i>Hymenolepis uncinata</i> )	Vaucher & Hunkeler 1967, Vaucher 1971	VS/1964
Soricidae		
<i>Crocidiura leucodon</i>		
Soricidae		
<i>Crocidiura suaveolens</i>		
Soricidae		
<i>Staphylocystoides</i> Yamaguti, 1952		
Soricidae		
<i>S. sieganski</i> (Zarnowski, 1954) - ( <i>Hymenolepis sieganski</i> )	Vaucher & Hunkeler 1967, Vaucher 1971	BE, GR, JU, NE, TI, VD, VS/1965-72
Soricidae		
<i>Sorex araneus</i>	Wahl 1967, Vaucher 1971	GE, GR, NE, VS/1960, 1963, 1971 1984
Soricidae		
<i>Sorex minutus</i>		
Soricidae		
<i>Triodontolepis</i> Yamaguti, 1959		
Gammaridae		
<i>T. bifurca</i> (Hamann, 1891) - ( <i>Hymenolepis bifurca</i> )	Vaucher & Hunkeler 1967	NE/1966
Soricidae		
<i>Gammarus pulex</i>		
Gammaridae		
<i>Neomys fodiens</i>		
Soricidae		
<i>T. hamanni</i> (Mrázek, 1891) - ( <i>Cysticercus hamanni</i> , <i>Hymenolepis hamanni</i> , <i>H. neomidis</i> , <i>Vampirolepis neomidis</i> )	Hörning 1963	GE, NE/1968
Soricidae		
<i>Neomys anomalus</i>	Baer 1931, Baer & Joyeux 1943, Hörning 1963,	VS/1961-3
Soricidae	Vaucher 1971	GE, NE, VS/1931, 1961-4, 1968
<i>Neomys fodiens</i>		
Soricidae		
<i>Ischerikovilepis</i> Spasskii & Spasskaja 1954		
Anatidae		
<i>T. tenuirostris</i> * (Rudolphi, 1819) - ( <i>Anatinella tenuirostris</i> , <i>Hymenolepis tenuirostris</i> , <i>Taenia tenuirostris</i> )	Fuhrmann 1926	BA
<i>Mergus merganser</i> <sup>o</sup>		
<i>Urocystis</i> Villot, 1880		
Cricetidae		
<i>U. proflifer</i> Villot, 1880 - ( <i>Hymenolepis proflifer</i> , <i>Neoskrabynolepis singularis</i> )		
Soricidae		
<i>Myodes glareolus</i> [10]		
Soricidae		
<i>Sorex alpinus</i>	Vaucher & Hunkeler 1967, Vaucher 1971	GR/1971
Soricidae		
<i>Sorex araneus</i>	Vaucher & Hunkeler 1967, Vaucher 1971	GR, VD/1971-2
Soricidae		
<i>Sorex minutus</i>	Vaucher & Hunkeler 1967, Vaucher 1971	CH/1965-6, 1968-74, 1994
Soricidae		
<i>Vampirolepis</i> Spasskii & Oshimarin 1954		
Vespertilionidae		
<i>V. baeri</i> Murai, 1976	Murai 1976	NE, VD, VS/1965-6, 1968
Vespertilionidae		
<i>Nyctalus noctula</i>		
Vespertilionidae		
<i>V. bairdii</i> (Loyeux & Baer, 1934) - ( <i>Hymenolepis bairdii</i> )	Aellen 1949, Vaucher & Hunkeler 1967	BE, VD, VS/1950, 1959
Vespertilionidae		
<i>Myotis mystacinus</i>		
Vespertilionidae		
<i>Plecotus auritus</i>		
Vespertilionidae		

<i>Hymenolepis</i> Mathevosian, 1945					
<i>F. spinulosa</i> (Cholodkovsky, 1906) - ( <i>Hymenolepis spinulosa</i> )					
Cricetidae	<i>Myodes glareolus</i> [10]				
Soricidae	<i>Sorex alpinus</i>				
Soricidae	<i>Sorex araneus</i>				
Soricidae	<i>Sorex minutus</i>				
<i>Wardium</i> Mayhew, 1925					
<i>W. farciminosus*</i> (Goeze, 1782) - ( <i>Hymenolepis farciminosus</i> , <i>Variolopsis farciminosus</i> )					
Corvidae	<i>Garrulus glandarius*</i>				
Recurvirostridae	<i>Recurvirostra recurvirostrae</i> , <i>Taenia recurvirostrae</i>				
<i>Wardoides</i> Spasskii, 1963					
<i>W. nyrocae cygri</i> (Yamaguti, 1935)					
Anatidae	<i>Cygnus olor</i>				
<b>Mesocostoididae Perrier, 1897</b>					
<i>Mesocostoides</i> Vaillant, 1863					
<i>M. lineatus*</i> (Goeze, 1782) - ( <i>Taenia litterata</i> )					
Canidae	<i>Canis familiaris</i>				
Canidae	<i>Vulpes vulpes*</i>				
Cricetidae	<i>Myodes glareolus</i>				
Canidae	<i>Vulpes vulpes</i>				
<i>M. litteratus</i> (Batsch, 1786)					
Canidae	<i>Circus cyaneus</i>				
<i>M. perlatus</i> (Goeze, 1782)					
Accipitridae	<i>Circus cyaneus</i>				
<i>Mesocostoides</i> sp.					
Muridae	<i>Apodemus flavicollis</i>				
<b>Nematotaeniidae Lühe, 1910</b>					
<i>Nematotaenia</i> Lühe, 1899					
<i>N. dispar*</i> (Goeze, 1782) - ( <i>Cylindrotaenia dispar</i> , <i>Taenia dispar</i> )					
Bufoiidae	<i>Bufo bufo*</i>				
Ramidae	<i>Pelophylax lessonae*</i>				
<i>Salamanndra</i>	<i>Salamanndra atra*</i>				
<b>Paruterinidae Fuhrmann, 1907</b>					
<i>Anonchotaenia</i> Cohn 1900					
<i>A. globata</i> (von Linstow, 1879)					
Paridae	<i>Parus major</i>				
Passerellidae	<i>Zonotrichia</i> sp.				
Sylviidae	<i>Sylvia atricapilla</i>				
<i>Cladotaenia</i> Cohn, 1901					
<i>C. cylindraceae*</i> (Bloch, 1782) - ( <i>Cysticercus cladotaeniae-cylindraceae</i> )					
Accipitridae	<i>Accipiter gentilis</i>				
Accipitridae	<i>Buteo buteo*</i>				
Accipitridae	<i>Milvus migrans</i>				
Cricetidae	<i>Arvicola amphibius</i>				
Cricetidae	<i>Microtus agrestis</i>				
Cricetidae	<i>Microtus arvalis</i>				
Cricetidae	<i>Myodes glareolus</i>				
Falconidae	<i>Falco tinnunculus</i>				
Muridae	<i>Apodemus sylvaticus</i>				
<i>C. globifera</i> (Batsch, 1786)					
Accipitridae	<i>Accipiter gentilis</i>				
Accipitridae	<i>Buteo buteo</i>				
<i>Neyraia</i> Joyeux & Timon-David, 1934					
<i>N. intricata</i> (Krabbe, 1878)					
Upupidae	<i>Upupa epops</i>				
<i>Igigolepis</i> Mathevosian, 1945					
VD, VS/1966, 1972					
BE, GR, JU, NE, VD, VS/1965-1974, 1994					
NE					
GR/1971					
VAucher & Hunkeler 1967, VAucher 1971					
BAer 1932, VAucher & Hunkeler 1967, VAucher 1971					
VAucher & Hunkeler 1967, VAucher 1971					
BA, NE/1967					
BA, GE [7]					
N/1981-5					
VD/1941					
GR, NE, VD, VS/1961-3, 1972					
GR/1971					
BA, VD					
BE, VS/1961-3					
GR/2009					
BA, GE, NE, TI/1910					
BA					
VD					
BA/1947					
BA					
JU/1986					
VD/1961-3					
BA, LU, SG, VD, VS, ZG/1961-3, 1974					
VS/1961-3					
VD, VS/1961-3					
VD/1961-3					
VD/1961-3					
NE, VD, VS/1961-3					
NE/1961-3					
GE, VS/1961-3					
VD, VS					
BA, BE, JU, VS/1986					
VD					



<i>Taenia</i> Linnaeus, 1758					
<i>T. angustata</i> Rudolphi, 1819 ( <i>sp. inquirenda</i> )					
Mustelidae	<i>Meles meles</i>				
Canidae	<i>Canis familiaris</i>	Bouvier <i>et al.</i> 1951			VD/1949-50
Canidae	<i>Vulpes vulpes</i> <sup>o</sup>	Gaschen 1950			
		Baer 1925a, Hörning 1963			AG, BA, GE, NE, SG, VD, VS/1947, 1955, 1960-3, 1975-9
Cricetidae	<i>Arvicola amphibius</i>	L			FR, SG, VD, VS, ZH/1968-9, 2007-8
Cricetidae	<i>Microtus agrestis</i>	L			VD/1961-3
Cricetidae	<i>Microtus arvalis</i> <sup>o</sup>	L			BE, VD, VS/1961-4, 1993
Cricetidae	<i>Microtus subtypicus</i>	L			VS
Muridae	<i>Mus musculus</i>	L			VD
Muridae	<i>Rattus rattus</i>	L			VD
Sciuridae	<i>Marmota marmota</i>	L			OW, UR/1961-3
<i>T. intermediaria</i> * Rudolphi 1810 ( <i>sp. inquirenda</i> )					
Mustelidae	<i>Martes foina</i> <sup>o</sup>	Fuhrmann 1926			VD
Mustelidae	<i>Martes martes</i>	Galli-Valerio 1940			VD
Mustelidae	<i>Mustela erminea</i>	Gaschen 1950			VD
<i>T. hydatigena</i> * Pallas, 1766 - ( <i>Cysticercus tenuicollis</i> , <i>Cysticercus longicollis</i> , <i>Taenia marginata</i> )					
Bovidae	<i>Bos taurus</i> <sup>o</sup>	L	Fuhrmann 1926		NE, VD, ZH
Bovidae	<i>Capra ibex</i>	L	Bouvier & Hörning 1963		GR, VD, VS/1961-3
Bovidae	<i>Ovis aries</i> <sup>o</sup>	L	Fuhrmann 1926		VD, ZH
Bovidae	<i>Rupicapra rupicapra</i>	L	Fuhrmann 1926, Gaschen 1950		CH/1961-3, 1970-2
Canidae	<i>Canis familiaris</i> <sup>o</sup>	L	Hörning 1963		BE, NE, VD, ZH
Canidae	<i>Vulpes vulpes</i>	L	Hörning 1963		VD, VS/1961-3
Cervidae	<i>Capreolus capreolus</i>	L	Hörning 1963		BE, GR, OW, SG, VD, VS/1961-3
Cervidae	<i>Cervus elaphus</i>	L	Hörning 1963		GR/1961-3
Muridae	<i>Apodemus sylvaticus</i> <sup>o</sup>	L	Fuhrmann 1926 [17]		VS
Suidae	<i>Sus scrofa</i> <sup>o</sup>	L	Fuhrmann 1926		VD, ZH
<i>T. krabbei</i> Montez, 1879 - ( <i>Cysticercus cervi</i> , <i>Taenia cervi</i> )					
Cervidae	<i>Capreolus capreolus</i>	L	Hörning 1963		SG/1961-3
<i>T. marriti</i> (Zeder, 1803)					
Cricetidae	<i>Myodes glareolus</i>	L	Vaucher & Hunkeler 1967, Wahl 1967		FR, GE, JU, NE, VD/1961-9, 1984, 1994, 1998
Homnidae	<i>Homo sapiens</i>	L	Genbank Accession #: OQ536306		FR, GE, NE/1962, 1966, 1969
Muridae	<i>Apodemus flavicollis</i>	L	Wahl 1967		GE, NE/1962-4, 1966
Muridae	<i>Apodemus sylvaticus</i>	L	Vaucher & Hunkeler 1967, Wahl 1967		GE, VD, VS/1960-1, 1980-2, 1986
Mustelidae	<i>Martes foina</i>	L			VD/1972
Mustelidae	<i>Meles meles</i>	L			
<i>T. multiceps</i> * (Leske, 1780) - ( <i>Coenurus cerebralis</i> , <i>Multiceps cerebralis</i> , <i>Multiceps multiceps</i> , <i>Taenia coenurus</i> )					
Bovidae	<i>Bos taurus</i> <sup>o</sup>	L	Fuhrmann 1926		BE, GR, SG, ZH
Bovidae	<i>Ovis aries</i> <sup>o</sup>	L	Fuhrmann 1926		BE, GE, ZH/1959
Canidae	<i>Canis familiaris</i> <sup>o</sup>	L	Fuhrmann 1926		ZH
Canidae	<i>Vulpes vulpes</i>	L	Hörning 1963		VD/1961-3
Cervidae	<i>Capreolus capreolus</i>	L	Bouvier <i>et al.</i> 1958, Hörning 1963		VD, VS/1954, 1961-3
Leporidae	<i>Oryctolagus cuniculus</i>	L	Gaschen 1950		VD
<i>T. pisiformis</i> * (Bloch, 1780) - ( <i>Cysticercus pisiformis</i> , <i>Taenia serrata</i> )					
Canidae	<i>Canis familiaris</i> <sup>o</sup>	L	Galli-Valerio 1917, 1921		BE, GE, VD, ZH
Canidae	<i>Vulpes vulpes</i>	L	Bouvier 1947, Hörning 1963		NE, SG, VD, VS/1961-3
Cricetidae	<i>Arvicola amphibius</i>	L			GE
Felidae	<i>Felis silvestris</i> <sup>o</sup>	L			GE
Leporidae	<i>Lepus europaeus</i> [18]	L	Galli-Valerio 1940, Hörning 1963		TI, VD/1961-3
Leporidae	<i>Oryctolagus cuniculus</i> <sup>o</sup>	L	Galli-Valerio 1898, 1917, 1940, André 1917		BE, GE, NE, VD, VS
Muridae	<i>Rattus rattus</i> <sup>o</sup>	L	Galli-Valerio 1911		VD
<i>T. polyacantha</i> Leuckart, 1856 - ( <i>Cysticercus taeniae-polyacanthae</i> , <i>Hoplothyridium</i> )					
Canidae	<i>Vulpes vulpes</i>	L			GE, JU, NE, VD, VS, ZH/1955, 1961-3, 1967, 1970
Cricetidae	<i>Microtus arvalis</i>	L			VD/1967, 1999

Cricetidae	<i>Microtus multiplex</i>	L	Baer 1932, Hörning 1963	VD/1973
Cricetidae	<i>Myodes glareolus</i>	L	Hörning 1963	GR, VS/1931, 1961-3, 1971
Muridae	<i>Apodemus sylvaticus</i>	L	Hörning 1963	VD, VS/1961-3
Muridae	<i>Mus musculus</i>	L	Hörning 1963	VD/1961-3
Muridae	<i>Sciurus vulgaris</i>	L	Hörning 1963	NE, VD, VS/1961-3
<i>T. saginata</i> * Goeze, 1782 - ( <i>Cysticercus bovis</i> , <i>Taenia mediocanellata</i> )				
Bovidae	<i>Bos taurus</i> <sup>o</sup>	L	Fuhrmann 1926	BA, BE, VD ZH
Hominiidae	<i>Homo sapiens</i> <sup>o</sup>		Galli-Valerio 1901, 1921	CH/1924, 1929, 1931
<i>T. secunda</i> Olsson, 1893 ( <i>sp. inquirenda</i> , <i>sp. incerta sedis</i> )				
Bovidae	<i>Rupicapra rupicapra</i>	L	Gaschen 1950	VS/1961-3
Mustelidae	<i>Meles meles</i>		Bouvier <i>et al.</i> 1953	BA, VD/1952
Canidae	<i>Canis familiaris</i>	L	Gaschen 1950	VD
Leporidae	<i>Oryctolagus cuniculus</i> <sup>o</sup> [19]		Galli-Valerio 1909, André 1917	GE, VD/1908
<i>T. solium</i> * Linnaeus, 1758 - ( <i>Cysticercus cellulosae</i> )				
Hominiidae	<i>Homo sapiens</i> <sup>o</sup> [20]	L	Galli-Valerio 1901, Fuhrmann 1926	CH
Suidae	<i>Sus scrofa</i> <sup>o</sup>	L	Fuhrmann 1926	CH
<i>Taenia</i> sp.			Schmidt-Posthaus <i>et al.</i> 2002	
Felidae	<i>Lynx lynx</i>			
<i>Herpestia</i> Nakao <i>et al.</i> , 2013				
<i>V. mustelae</i> (Gmelin, 1790) - ( <i>Cysticercus hypudaei</i> , <i>Cysticercus tenuicollis</i> , <i>Taenia mustelae</i> , <i>Taenia tenuicollis</i> )				
Bovidae	<i>Capra ibex</i> [21]	L	Galli-Valerio 1939	VD
Bovidae	<i>Ovis aries</i> [21]	L		GE
Cricetidae	<i>Microtus arvalis</i>	L	Hörning 1963	GE, VD, VS/1961-3
Cricetidae	<i>Myodes glareolus</i>	L	Vaucher & Hunkeler 1967	GE, NE, VD/1961, 1966, 1998
Muridae	<i>Apodemus sylvaticus</i>	L	Galli-Valerio 1917	VS/1915
Mustelidae	<i>Mustela erminea</i>		Wahl 1967	BE, VD, VS/1956
Mustelidae	<i>Mustela nivalis</i>			GE
Mustelidae	<i>Mustela putorius</i>		Wahl 1967	SH, VS/1960
Suidae	<i>Sus scrofa</i> [21]	L	Gaschen 1950	
Talpidae	<i>Talpa europaea</i>	L	Hörning 1963	VD/1961-3
<b>DIPHYLLOBOTHRIDEA</b>				
<b>Diphyllobothriidae Lühe, 1910</b>				
<i>Diphyllobothrium</i> Cobbold, 1858				
<i>D. dendriticum</i> (Nitzsch, 1824)				
Hominiidae	<i>Homo sapiens</i>		Wicht <i>et al.</i> 2010	BE/2006
<i>D. latum</i> * (Linnaeus, 1758) - ( <i>Bothriocephalus latus</i> , <i>Dibothriocephalus latus</i> )				
Canidae	<i>Canis familiaris</i> <sup>o</sup>		Galli-Valerio 1904, 1940	GE, VD
Canidae	<i>Vulpes vulpes</i> <sup>o</sup>		Bouvier <i>et al.</i> 1963, Radacovska <i>et al.</i> 2022	GR, NE/2017-2018
Cyclopidae	<i>Cyclops strenuus</i> <sup>o</sup>	L	Jamicki & Rosen 1917	NE
Cyclopidae	<i>Eucyclops serranulus</i>	L	Szelenbaum-Cielecka <i>et al.</i> 1988 [22]	M, N/1985
Diaptomidae	<i>Diaptomus gracilis</i> <sup>o</sup>	L	Jamicki & Rosen 1917	NE
Felidae	<i>Felis silvestris</i> <sup>o</sup>		Galli-Valerio 1902, Bouvier <i>et al.</i> 1963, Zottler <i>et al.</i> 2019	VD, ZH
Esocidae	<i>Esox lucius</i> <sup>o</sup>	L	Baer 1925b, Bouvier <i>et al.</i> 1963, Golley & Mariaux 1995, Radacovska <i>et al.</i> 2019	BA, GE, NE, VD, A, B, L, M, N, V/1923-4, 1932
Hominiidae	<i>Homo sapiens</i> <sup>o</sup>		Galli-Valerio 1901, Fuhrmann 1926, Bouvier <i>et al.</i> 1963, Wicht <i>et al.</i> 2010	CH/1962, 2002, 2004-8
Lotidae	<i>Lota lota</i> <sup>o</sup>	L	Galli-Valerio 1901, André 1917, Hörning 1963	NE, TI, VD, A, L, M, N, O/1961-3
Percidae	<i>Perca fluviatilis</i> <sup>o</sup>	L	Galli-Valerio 1901, Bouvier <i>et al.</i> 1963, Golley & Mariaux 1995, Wicht <i>et al.</i> 2009, Radacovska <i>et al.</i> 2019	BE, VD, A, B, L, M, N/1994-1995, 2017-2018
Salmonidae [23]	<i>Coregonus fera</i> <sup>o</sup>	L	Schor 1902, Zschokke 1933	L
Salmonidae [23]	<i>Salmo trutta</i> <sup>o</sup>	L	Baer 1925b, Bouvier <i>et al.</i> 1963, Králová-Hromadová <i>et al.</i> 2021	BA, NE, VS, N, O, T, V
Salmonidae [23]	<i>Salvelinus umbla</i> <sup>o</sup>	L	Galli-Valerio 1901, Bouvier <i>et al.</i> 1963	L
Salmonidae [23]	<i>Thymallus thymallus</i> <sup>o</sup>	L	Zschokke 1887, Bouvier <i>et al.</i> 1963	L, O
Ramidae	<i>Pelophylax lessonae</i>	L		NE

<i>D. nihonkaiense</i> Yamane <i>et al.</i> , 1986	<i>Homo sapiens</i>	Wicht <i>et al.</i> 2007 [24]	GE/2005-6
<i>Ligula</i> Bloch, 1782	Homimidæ		
<i>L. colymbi</i> Zeder, 1803	Gaviidæ	Hörming 1963	VD/1961-3
	Podicipedidæ	Hörming 1963	BE, VD/1961-3
<i>L. digramma</i> Creplin, 1839	Leuciscidæ		BA
<i>L. intestinalis</i> * (Linnaeus, 1758) - ( <i>Dibothrium ligula</i> , <i>Ligula simplicissima</i> )	Accipitridæ		VS/1938
	Anatidæ	Galli-Valerio 1938	N
	Cyprinidæ	Fuhrmann 1926	L, N
	Gaviidæ	Fuhrmann 1926	LU
	Gobionidæ	Lune I 1879, Hörming 1963	BA, M, N, L/1934, 1961-3
	Lariidæ	Fuhrmann 1926	GE, NE, ZH, L, N
	Lariidæ	Fuhrmann 1926	L
	Leuciscidæ		BA, N/1983
	Leuciscidæ		GE, L, O/1991
	Leuciscidæ		Z
	Leuciscidæ		BA, V
	Leuciscidæ		L, M, O
	Leuciscidæ		L
	Leuciscidæ		L, V, Z
	Leuciscidæ		L
	Nemachelidæ		VD, L
	Percidæ	Fuhrmann 1926, Galli-Valerio 1940	L/1904
	Phoxinidæ		L
	Podicipedidæ	Fuhrmann 1926	BA, L, N
	Podicipedidæ	Fuhrmann 1926	NE, L
	Podicipedidæ		L
	Salmonidæ	Galli-Valerio 1901, Zschokke 1933	O,
	Tincidæ	Lune I 1879	L
<i>Schistocephalus</i> Creplin, 1829			
<i>S. solidus</i> * (Müller, 1776) - ( <i>Schistocephalus gasterostei</i> )		Fuhrmann 1926	BA
	Ardeidæ		VS/1923
	Gasterosteidæ		
<b>ONCOPROTEOCEPHALIDEA</b>			
<b>Proteocephalidæ</b> Mola, 1929			
<i>Corallobothrium</i> Fritsch, 1886			
<i>C. parafimbriatum</i> Befus & Freeman, 1973			
	Ictaluridæ		
<i>Glanitaenia</i> de Chambrier <i>et al.</i> , 2004			
<i>G. osculata</i> (Goeze, 1782) - ( <i>Glanitaenia osculatus</i> )		Zandt 1924, de Chambrier & Scholz 2016	NE, O/2010
	Siluridæ		
<i>Ophiotaenia</i> La Rue, 1911			
<i>O. europaea</i> Odening, 1963			
	Colubridæ		
<i>Proteocephalus</i> Weimland, 1858 [25]			
<i>P. filicollis</i> * (Rudolphi, 1802) - ( <i>Ichthyotaenia filicollis</i> )			
	Gasterosteidæ		
	Salmonidæ		
<i>P. longicollis</i> * (Zeder, 1800) - ( <i>Ichthyotaenia agonis</i> , <i>I. fallax</i> , <i>I. longicollis</i> , <i>I. neglecta</i> , <i>I. salmonisumbilae</i> , <i>Proteocephalus agonis</i> , <i>P. exiguus</i> , <i>P. fallax</i> , <i>P. neglectus</i> , <i>P. salmonisumbilae</i> , <i>Taenia longicollis</i> ) [27, 28]			
	Clupeidæ	Pecorini 1959	BA, VD/1960
	Colubridæ		BA
	Cyclopidae	Jarecka & Doby 1965	A/1957-8
	Cyclopidae	Pecorini 1959, Jarecka & Doby 1965	GE/1909
	Cyclopidae		L
	Cyclopidae		A, L/1957-8
	Cyclopidae		A/1957-8
	Mesocyclops leuckarti		

Diaptomidae	<i>Eudiaptomus vulgaris</i>	L	Pecorini 1959	A/1957-8
Diaptomidae	<i>Mixodiaptomus laciniatus</i>	L	Pecorini 1959	A/1957-8
Esocidae	<i>Esox lucius</i> <sup>o</sup>	L	Nufer 1905	L, V/1994
Leuciscidae	<i>Alburnus alburnus</i> <sup>o</sup>		Nufer 1905	O, V
Leuciscidae	<i>Squalius cephalus</i>		Nufer 1905	V
Percidae	<i>Perca fluviatilis</i> <sup>o</sup>		Nufer 1905	NE, L, O, V
Salmonidae	<i>Coregonus fera</i> <sup>o</sup>		Nufer 1905, André 1917, Zschokke 1933	L, O, V, GE/1909, 1995
Salmonidae	<i>Coregonus gutturosus</i>		Zschokke 1933	L, O, V
Salmonidae	<i>Coregonus hiemalis</i>		André 1917, Zschokke 1933	L
Salmonidae	<i>Coregonus lavaretus</i>		Pecorini 1959, Hanzelova <i>et al.</i> 1999	BE, GE, A, B, L/1957-8, 1990, 1994-7
Salmonidae	<i>Coregonus macrophthalmus</i> <sup>o</sup>		André 1917, Zschokke 1933, Nufer 1905	N, O, V
Salmonidae	<i>Coregonus wartmanni</i> <sup>o</sup>		Zschokke 1933, Nufer 1905	BE, O, V
Salmonidae	<i>Coregonus</i> sp.			NE, N
Salmonidae	<i>Oncorhynchus mykiss</i>			GR/1944
Salmonidae	<i>Salmo trutta</i> <sup>o</sup>		Lune 1879, Hanzelova & Scholz 1992	BA, NE, L/1909, 1985
Salmonidae	<i>Salvelinus umbla</i> <sup>o</sup>		Lune 1879, Zschokke 1884, Nufer 1905	L, V
Salmonidae	<i>Thymallus thymallus</i> <sup>o</sup>			BA, O
<i>P. macrophthalmus</i> * (Creplin, 1825) - ( <i>Ichthyotaenia macrocephala</i> )				O, V
Anguillidae	<i>Anguilla anguilla</i> <sup>o</sup>		Nufer 1905	L, M/1994
<i>P. percae</i> * (Müller, 1780) - ( <i>Ichthyotaenia longicollis</i> , I. ocellata, I. percae, <i>Proteocephalus percae</i> , <i>P. dubius</i> , <i>P. ocellatus</i> , <i>Taenia percae</i> ) [29]			Zschokke 1884	BA
Esocidae	<i>Esox lucius</i>			BE, GE, VD, L, O/1986, 1994
Gasterosteidae	<i>Gasterosteus aculeatus</i>		Zschokke 1884	CH/<1911, 1961-3, 1986, 1990, 1994-6, 2007-9
Lotidae	<i>Lota lota</i> <sup>o</sup>		Zschokke 1884	L, N, O, V
Percidae	<i>Perca fluviatilis</i> <sup>o</sup>		Zschokke 1884, Hörmig 1963, Hanzelova <i>et al.</i> 1999	L
Salmonidae	<i>Coregonus fera</i> <sup>o</sup>		Zschokke 1884, Nufer 1905, Zschokke 1933	
Salmonidae	<i>Coregonus hiemalis</i> <sup>o</sup>		Sublet 1987	
Salmonidae	<i>Coregonus lavaretus</i>		Nufer 1905, Zschokke 1933	N, V
Salmonidae	<i>Coregonus macrophthalmus</i>			NE/1916
Salmonidae	<i>Coregonus oxyrinchus</i>			NE
Salmonidae	<i>Coregonus palaea</i>			O, V
Salmonidae	<i>Coregonus wartmanni</i> <sup>o</sup>		Nufer 1905, Zschokke 1933	VD/1986-7
Salmonidae	<i>Salmo trutta</i>		Zschokke 1884	V
Salmonidae	<i>Salvelinus umbla</i>		Nufer 1905	V
<i>P. torulosus</i> * (Batsch, 1786) [30] - ( <i>Ichthyotaenia torulosus</i> , <i>Ichthyotaenia torulosa</i> )				V
Gobiionidae	<i>Gobio gobio</i> <sup>o</sup>		Nufer 1905	O
Leuciscidae	<i>Abramis brama</i> <sup>o</sup>		Fuhrmann 1926	GE, NE, VD, L, O, V/1961-3, 1995
Leuciscidae	<i>Alburnus alburnus</i> <sup>o</sup>		Nufer 1905, Hörmig 1963	V
Leuciscidae	<i>Blicca bjoerkna</i> <sup>o</sup>		Nufer 1905	BA, O, N, V
Leuciscidae	<i>Leuciscus leuciscus</i> <sup>o</sup>		Nufer 1905	O
Lotidae	<i>Lota lota</i> <sup>o</sup>		Zandt 1924	O, V
Percidae	<i>Perca fluviatilis</i> <sup>o</sup>		Nufer 1905, Zandt 1924	L, V
Salmonidae	<i>Coregonus fera</i> <sup>o</sup>		Nufer 1905, Zschokke 1933	V
Salmonidae	<i>Coregonus macrophthalmus</i> <sup>o</sup>		Nufer 1905	O
Salmonidae	<i>Coregonus wartmanni</i> <sup>o</sup>		Zandt 1924	V
Salmonidae	<i>Salvelinus umbla</i> <sup>o</sup>		Nufer 1905	V
<b>SPATHEBOTHRIDEA</b>				
<b>Acrobothridae</b> Olsson, 1872				
Cyathocephalidae Kessler, 1868				
<i>C. truncatus</i> * (Pallas, 1781)				
Cottidae	<i>Cottus gobio</i>			GE
Esocidae	<i>Esox lucius</i>		Gaschen 1950	VD
Gammaridae	<i>Gammarus pulex</i> <sup>o</sup>	L		NE/1917
Leuciscidae	<i>Rutilus rutilus</i>		Gaschen 1950	L
Lotidae	<i>Lota lota</i> <sup>o</sup>		Zschokke 1884, Nufer 1905, Hörmig 1963	GE, NE, TI, O, L, V/1917, 1961-3, 1986
Percidae	<i>Perca fluviatilis</i> <sup>o</sup>		Nufer 1905	BA, O, V
Phoxinidae	<i>Phoxinus phoxinus</i>		Mariaux 1986	NE/1983-4
Salmonidae	<i>Coregonus fera</i> <sup>o</sup>		Zschokke 1884, 1933	NE, L, O/1917

Salmonidae	<i>Coregonus gutturosus</i>	Zschokke 1933	O
Salmonidae	<i>Coregonus macrophthalmus</i>	Zschokke 1933	N
Salmonidae	<i>Oncorhynchus mykiss</i> <sup>o</sup>	Fuhrmann 1926, Hörmig 1963	GE, VD/1961-3
Salmonidae	<i>Salmo trutta</i> <sup>o</sup>	Mariaux 1986	BA, NE, B/1983, 1985
Salmonidae	<i>Salvelinus umbla</i> <sup>o</sup>	Zschokke 1884	L, V
Thymallidae	<i>Thymallus thymallus</i>	Mariaux 1986	NE/1983
<b>TETRABOTHRIDEA</b>			
<b>Tetrabottridae</b> Baer, 1954			
<i>Tetrabottrius</i> Rudolphi, 1819			
	<i>T. (Culmenamniculus) cylindraceus</i> * (Rudolphi, 1810)		
Laridae	<i>Chroicocephalus ridibundus</i> <sup>o</sup>	Fuhrmann 1926	NE
Podicipedidae	<i>Podiceps auritus</i> <sup>o</sup>	Fuhrmann 1926	N
Podicipedidae	<i>Podiceps cristatus</i> <sup>o</sup>	Fuhrmann 1926	N
Podicipedidae	<i>Podiceps</i> sp.		NE
<b>TRYPANORHYNCHA</b>			
<b>Trypanorhyncha</b> Diesing, 1863			
<i>Gilquinta</i> Guiart, 1927			
	<i>G. squail</i> * (Fabricius, 1794) - ( <i>Tetrarhynchus paleaceus</i> )		
Salmonidae	<i>Salmo salar</i> <sup>o</sup>	L Zschokke 1891, Fuhrmann 1926	BA
<i>Grillota</i> Guiart, 1927			
	<i>G. (Grillota) erinaceus</i> * (van Beneden, 1858) - ( <i>Tetrarhynchus erinaceus</i> , <i>Tetrarhynchus lotae</i> )		
Salmonidae	<i>Salmo salar</i> <sup>o</sup>	L Zschokke 1903, Fuhrmann 1926	BA
<i>Hepatoxylon</i> Bose, 1811			
	<i>H. trichiuri</i> * (Hollen, 1802) - ( <i>Coenomorphus grossus</i> )		
Salmonidae	<i>Salmo salar</i> <sup>o</sup>	L Zschokke 1891, Fuhrmann 1926	BA
<i>Tentacularia</i> Bose, 1797			
	<i>T. coryphaenae</i> * Bosc, 1802 - ( <i>Tetrarhynchus quadristris</i> )		
Salmonidae	<i>Salmo salar</i> <sup>o</sup>	L Fuhrmann 1926	BA
<b>Undetermined cestodes</b>			
Anatidae	<i>Anas acuta</i>	Hörmig 1963	
Anatidae	<i>Bucephala clangula</i>	Hörmig 1963	
Ardeidae	<i>Ardea cinerea</i>	Hörmig 1963	
Ardeidae	<i>Egretta garzetta</i>	Hörmig 1963	
Corvidae	<i>Corvus corax</i>	Hörmig 1963	
Corvidae	<i>Corvus monedula</i>	Hörmig 1963	
Corvidae	<i>Pyrrhocorax graculus</i>	Hörmig 1963	
Cuculidae	<i>Cuculus canorus</i>	Hörmig 1963	
Picidae	<i>Dryocopus martius</i>	Hörmig 1963	
Phylloscopidae	<i>Phylloscopus collybita</i>	Hörmig 1963	
Strigidae	<i>Strix aluco</i>	Hörmig 1963	



Table 2. Hosts of cestodes in Switzerland

	# Host species	% of Swiss species	H-P pairs
INVERTEBRATES	24	---	40
VERTEBRATES	190	29% (of 665)	649
<i>ACTINOPTERYGII</i>	36	36% (of 100)	138
<i>AMPHIBIA</i>	3	16% (of 19)	4
<i>REPTILIA</i>	3	19% (of 16)	3
<i>AVES</i>	94	22% (of 431)	225
<i>MAMMALIA</i>	54	56% (of 99)	279
<b>TOTAL</b>	<b>214</b>		<b>689</b>

Table 3. Host – Parasite Checklist

**“Invertebrates” (24)****Gastropoda (1)****Arionidae***Arion* sp.*Molluscotaenia crassiscolex***Hexanauplia (10)****Cyclopidae***Acanthocyclops viridis**Parabissacanthus kazachstanica**Cyclops abyssorum**Proteocephalus longicollis**Cyclops strenuus**Diphyllobothrium latum**Proteocephalus longicollis**Eucyclops serratulus**Diphyllobothrium latum**Echinocotyle ryjikovi**Microsomacanthus compressa**Parabissacanthus philactes**Macrocyclus albidus**Microsomacanthus compressa**Fimbriaria fasciolaris**Microsomacanthus spirallibursata**Echinocotyle ryjikovi**Mesocyclops leuckarti**Proteocephalus longicollis**Paracyclops fimbriatus**Sobolevicanthus gracilis***Diaptomidae***Diaptomus gracilis**Diphyllobothrium latum**Eudiaptomus vulgaris**Proteocephalus longicollis**Mixodiaptomus laciniatus**Proteocephalus longicollis***Ostracoda (4)****Candonidae***Candona* sp.*Sobolevicanthus gracilis**Diorchis ransomi***Cyprididae***Cyclopypris laevis**Dicranotaenia coronula**Cypris* sp.*Echinocotyle anatina**Cypridopsis vidua**Sobolevicanthus gracilis**Fimbriaria fasciolaris**Echinocotyle rosseteri**Diorchis inflata**Diorchis brevis**Diorchis ransomi***Malacostraca (1)****Gammaridae***Gammarus pulex**Coronacanthus integrus**Coronacanthus omissus**Cyathocephalus truncatus**Triodontolepis bifurca***Diplopoda (2)****Glomeridae***Glomeris marginata**Staphylocystis pistillum**Glomeris* sp.*Sobolevitaenia verulamii***Hexapoda (3)****Carabidae***Anchomenus dorsalis**Rodentolepis microstoma***Leptopsyllidae***Leptopsylla segnis**Rodentolepis microstoma*

- Scrabaecidae**  
*Amidorus obscurus*  
*Ctenotaenia marmotae*
- Clitellata (3)**
- Tubificidae**  
*Limnodrilus claparedianus*  
*Caryophyllaeus laticeps*  
*Tubifex barbatus*  
*Caryophyllaeus laticeps*  
*Tubifex tubifex*  
*Caryophyllaeus laticeps*
- Vertebrates (178)**
- Actinopterygii (36)**
- Anguillidae**  
*Anguilla anguilla*  
*Proteocephalus macrocephalus*
- Clupeidae**  
*Alosa agone*  
*Proteocephalus longicollis*
- Cottidae**  
*Cottus gobio*  
*Caryophyllaeus laticeps*  
*Cyathocephalus truncatus*  
*Eubothrium salvelini*  
*Triaenophorus nodulosus*
- Cyprinidae**  
*Barbus barbus*  
*Bathybothrium rectangulum*  
*Eubothrium salvelini*  
*Cyprinus carpio*  
*Caryophyllaeus fimbriceps*  
*Caryophyllaeus laticeps*  
*Ligula intestinalis*
- Esocidae**  
*Esox lucius*  
*Cyathocephalus truncatus*  
*Diphyllobothrium latum*  
*Eubothrium salvelini*  
*Proteocephalus longicollis*  
*Proteocephalus percae*  
*Triaenophorus crassus*  
*Triaenophorus nodulosus*
- Gasterosteidae**  
*Gasterosteus aculeatus*  
*Proteocephalus filicollis*  
*Proteocephalus percae*  
*Schistocephalus solidus*
- Gobionidae**  
*Gobio gobio*  
*Ligula intestinalis*  
*Proteocephalus torulosus*
- Ictaluridae**  
*Ameiurus melas*  
*Corallobothrium parafimbriatum*
- Leuciscidae**  
*Abramis brama*  
*Caryophyllaeus laticeps*  
*Ligula intestinalis*  
*Proteocephalus torulosus*  
*Alburnus alburnus*  
*Caryophyllaeus laticeps*  
*Ligula intestinalis*
- Proteocephalus longicollis*  
*Proteocephalus torulosus*  
*Triaenophorus nodulosus*
- Blicca bjoerkna**  
*Caryophyllaeides fennica*  
*Caryophyllaeus laticeps*  
*Ligula intestinalis*  
*Proteocephalus torulosus*
- Chondrostoma nasus**  
*Caryophyllaeus laticeps*  
*Caryophyllaeides fennica*  
*Ligula intestinalis*
- Leuciscus leuciscus**  
*Ligula digramma*  
*Proteocephalus torulosus*
- Rutilus rutilus**  
*Caryophyllaeides fennica*  
*Caryophyllaeus laticeps*  
*Cyathocephalus truncatus*  
*Ligula intestinalis*
- Scardinius erythrophthalmus**  
*Caryophyllaeides fennica*  
*Ligula intestinalis*
- Squalius cephalus**  
*Caryophyllaeides fennica*  
*Caryophyllaeus laticeps*  
*Eubothrium salvelini*  
*Ligula intestinalis*  
*Proteocephalus longicollis*
- Lotidae**  
*Lota lota*  
*Cyathocephalus truncatus*  
*Diphyllobothrium latum*  
*Eubothrium rugosum*  
*Eubothrium salvelini*  
*Proteocephalus percae*  
*Proteocephalus torulosus*  
*Triaenophorus nodulosus*
- Nemacheilidae**  
*Barbatula barbatula*  
*Ligula intestinalis*
- Percidae**  
*Perca fluviatilis*  
*Bathybothrium rectangulum*  
*Cyathocephalus truncatus*  
*Diphyllobothrium latum*  
*Eubothrium salvelini*  
*Ligula intestinalis*  
*Proteocephalus longicollis*  
*Proteocephalus percae*  
*Proteocephalus torulosus*  
*Triaenophorus nodulosus*
- Phoxinidae**  
*Phoxinus phoxinus*  
*Cyathocephalus truncatus*  
*Ligula intestinalis*  
*Triaenophorus nodulosus*
- Salmonidae**  
*Coregonus fera*  
*Cyathocephalus truncatus*  
*Diphyllobothrium latum*  
*Eubothrium crassum*  
*Eubothrium salvelini*

- Ligula intestinalis*  
*Proteocephalus filicollis*  
*Proteocephalus longicollis*  
*Proteocephalus percae*  
*Proteocephalus torulosus*  
*Triaenophorus nodulosus*
- Coregonus gutturosus**  
*Cyathocephalus truncatus*  
*Proteocephalus longicollis*
- Coregonus hiemalis**  
*Proteocephalus longicollis*  
*Proteocephalus percae*
- Coregonus lavaretus**  
*Proteocephalus longicollis*  
*Proteocephalus perca*  
*Triaenophorus crassus*
- Coregonus macrophthalmus**  
*Cyathocephalus truncatus*  
*Eubothrium crassum*  
*Eubothrium salvelini*  
*Proteocephalus longicollis*  
*Proteocephalus percae*  
*Proteocephalus torulosus*  
*Triaenophorus nodulosus*
- Coregonus oxyrinchus**  
*Proteocephalus percae*
- Coregonus palaea**  
*Proteocephalus percae*
- Coregonus wartmanni**  
*Eubothrium crassum*  
*Eubothrium salvelini*  
*Ligula intestinalis*  
*Proteocephalus longicollis*  
*Proteocephalus percae*  
*Proteocephalus torulosus*  
*Triaenophorus nodulosus*
- Oncorhynchus mykiss**  
*Cyathocephalus truncatus*  
*Proteocephalus longicollis*
- Salmo salar**  
*Eubothrium crassum*  
*Eubothrium salvelini*  
*Gilquinia squali*  
*Grillotia erinaceus*  
*Hepatoxylon trichiuri*  
*Tentacularia coryphanae*
- Salmo trutta**  
*Cyathocephalus truncatus*  
*Diphyllobothrium latum*  
*Eubothrium crassum*  
*Eubothrium salvelini*  
*Proteocephalus longicollis*  
*Proteocephalus percae*  
*Triaenophorus nodulosus*
- Salvelinus umbla**  
*Cyathocephalus truncatus*  
*Diphyllobothrium latum*  
*Eubothrium salvelini*  
*Proteocephalus longicollis*  
*Proteocephalus percae*  
*Proteocephalus torulosus*  
*Triaenophorus nodulosus*
- Thymallus thymallus**
- Cyathocephalus truncatus*  
*Diphyllobothrium latum*  
*Eubothrium salvelini*  
*Proteocephalus longicollis*  
*Triaenophorus nodulosus*
- Siluridae**  
**Silurus glanis**  
*Eubothrium salvelini*  
*Glanitaenia osculata*
- Tincidae**  
**Tinca tinca**  
*Caryophyllaeus laticeps*  
*Khawia baltica*  
*Ligula intestinalis*  
*Triaenophorus nodulosus*
- Amphibia (3)**  
**Bufonidae**  
**Bufo bufo**  
*Nematotaenia dispar*
- Ranidae**  
**Pelophylax lessonae**  
*Diphyllobothrium latum*  
*Nematotaenia dispar*
- Salamandridae**  
**Salamandra atra**  
*Nematotaenia dispar*
- Reptilia (3)**  
**Colubridae**  
**Natrix natrix**  
*Proteocephalus longicollis*  
**Natrix tessellata**  
*Ophiotaenia europaea*
- Lacertidae**  
**Lacerta viridis**  
*Oochoristica rotundata*
- Aves (94)**  
**Accipitridae**  
**Accipiter gentilis**  
*Cladotaenia cylindracea*  
*Cladotaenia globifera*  
**Buteo buteo**  
*Cladotaenia cylindracea*  
*Cladotaenia globifera*  
**Circus gallicus**  
*Mesocostoides perlatus*  
**Gyps fulvus**  
*Ligula intestinalis*  
**Milvus migrans**  
*Cladotaenia cylindracea*  
*Idiogenes flagellum*
- Alaudidae**  
**Alauda arvensis**  
*Dilepis undula*
- Anatidae**  
**Anas acuta**  
 Gen. sp.  
**Anas crecca**  
*Sobolevicanthus fragilis*  
**Anas platyrhynchos**  
*Aploparaksis furcigera*  
*Cloacotaenia megalops*  
*Dicranotaenia coronula*  
*Diorchis elisae*

- Echinocotyle anatina*  
*Fimbriaria fasciolaris*  
*Microsomacanthus abortiva*  
*Microsomacanthus collaris*  
*Microsomacanthus compressa*  
*Microsomacanthus paracompressa*  
*Microsomacanthus parvula*  
*Microsomacanthus spiralibursata*  
*Platyscolex ciliata*  
*Raillietina anatina*  
*Sobolevicanthus gracilis*  
*Sobolevicanthus gracilissimus*  
*Sobolevicanthus krabella*
- Anser fabalis**  
*Microsomacanthus setigera*
- Aythya ferina**  
*Diploposthe laevis*
- Aythya fuligula**  
*Aploparaksis furcigera*  
*Fimbriaria fasciolaris*  
*Hymenolepis armata*  
*Microsomacanthus arcuata*  
*Microsomacanthus collaris*  
*Microsomacanthus compressa*  
*Microsomacanthus setigera*  
*Sobolevicanthus gracilis*
- Aythya marila**  
*Dicranotaenia coronula*  
*Fimbriaria fasciolaris*  
*Hymenolepis setigera*  
*Microsomacanthus arcuata*
- Bucephala clangula**  
 Gen. sp.
- Cygnus olor**  
*Anatinella kazachstanica*  
*Cladogynia guberiana*  
*Echinocotyle anatina*  
*Fimbriaria fasciolaris*  
*Parabisaccanthes bisacculina*  
*Parabisaccanthes kazachstanica*  
*Parabisaccanthes philactes*  
*Wardoides nyrocae cygni*
- Mergus merganser**  
*Cladogynia macracanthos*  
*Dicranotaenia coronula*  
*Fimbriaria fasciolaris*  
*Ligula intestinalis*  
*Tschertkovilepis tenuirostris*
- Mergus serrator**  
*Cladogynia macracanthos*  
*Diorchis acuminata*
- Netta rufina**  
*Diploposthe laevis*  
*Fimbriaria fasciolaris*  
*Hymenolepis teresoides*  
*Microsomacanthus collaris*
- Somateria mollissima**  
*Microsomacanthus microsoma*
- Tadorna tadorna**  
*Cloacotaenia megalops*
- Apodidae**  
**Apus apus**  
*Anomotaenia cyathiformis*
- Dilepis cypselina*  
*Neoliga depressa*  
*Notopentorchis* sp.  
*Paruterina vesiculigera*  
*Pseudangularia* sp.
- Tachymarptis melba**  
*Neoliga depressa*
- Ardeidae**  
**Ardea cinerea**  
 Gen. sp.
- Botaurus stellaris**  
*Schistocephalus solidus*
- Egretta garzetta**  
 Gen. sp.
- Burhinidae**  
**Burhinus oediconemus**  
*Burhinotaenia coronata*
- Caprimulgidae**  
**Caprimulgus europaeus**  
*Paricterotaenia megacantha*
- Charadriidae**  
**Vanellus vanellus**  
*Anomotaenia microphallos*  
*Anomotaenia stentorea*  
*Sacciuterina paradoxa*
- Ciconiidae**  
**Ciconia ciconia**  
*Microsomacanthus microcephalus*
- Cinclidae**  
**Cinclus cinclus**  
*Anomotaenia dehiscens*
- Columbidae**  
**Columba livia**  
*Cladogynia serrata*  
*Skrjabinia bonini*
- Columba palumbus**  
*Cladogynia serrata*  
*Skrjabinia bonini*
- Corvidae**  
**Corvus corone**  
*Dilepis undula*  
*Passerilepis crenata*  
*Spiniglans constricta*
- Corvus frugileus**  
*Dilepis undula*  
*Spiniglans affinis*  
*Spiniglans constricta*
- Corvus corax**  
 Gen. sp.
- Corvus monedula**  
 Gen. sp.
- Garrulus glandarius**  
*Passerilepis crenata*  
*Passerilepis stylosa*  
*Wardium farciminoso*
- Nucifraga caryocatactes**  
*Passerilepis crenata*
- Pica pica**  
*Dilepis undula*  
*Passerilepis crenata*  
*Passerilepis stylosa*
- Pyrrhonorax graculus**  
 Gen. sp.

- Pyrrhonorax pyrrhonorax*  
*Dilepis undula*
- Cuculidae**  
*Cuculus canorus*  
Gen. sp.
- Falconidae**  
*Falco tinnunculus*  
*Cladotaenia cylindracea*
- Fringillidae**  
*Fringilla coelebs*  
*Orthoskrjabinia bobica*  
*Passerilepis passeris*  
*Fringilla montifringilla*  
*Orthoskrjabinia conica*  
*Pyrrhula pyrrhula*  
*Orthoskrjabinia bobica*
- Gaviidae**  
*Gavia arctica*  
*Armadoskrjabinia rostellata*  
*Hymenolepis simulans*  
*Gavia immer*  
*Armadoskrjabinia rostellata*  
*Ligula colymbi*  
*Ligula intestinalis*  
*Microsomacanthus pseudorostellatus*  
*Gavia stellata*  
*Armadoskrjabinia rostellata*
- Laridae**  
*Chroicocephalus ridibundus*  
*Aploparaksis cirrosa*  
*Ligula intestinalis*  
*Paricterotaenia porosa*  
*Tetrabothrius cylindraceus*  
*Rissa tridactyla*  
*Ligula intestinalis*
- Muscicapidae**  
*Erithacus rubecula*  
*Spasskyterina trianguloides*  
*Phoenicurus ochruros*  
*Passerilepis passeris*
- Oriolidae**  
*Oriolus oriolus*  
*Choanotaenia orioli*  
*Monopylidium galbulae*
- Otididae**  
*Otis tarda*  
*Hispaniolepis villosa*
- Paridae**  
*Parus major*  
*Anonchotaenia globata*  
*Paricterotaenia parina*
- Passerellidae**  
*Zonotrichia* sp.  
*Anonchotaenia globata*
- Passeridae**  
*Passer domesticus*  
*Choanotaenia passerina*  
*Monopylidium musculosa*  
*Passerilepis passeris*
- Phalacrocoracidae**  
*Phalacrocorax carbo*  
*Paradilepis scolecina*
- Phasianidae**  
*Alectoris graeca*  
*Hymenolepis linea*  
**Gallus gallus**  
*Choanotaenia infundibulum*  
*Davainea proglottina*  
*Echinolepis carioca*  
*Hymenolepis exilis*  
*Raillietina echinobothrida*  
*Raillietina tetragona*  
*Skrjabinia cesticillus*  
**Lyrurus tetrrix**  
*Paroniella urogalli*  
**Perdix perdix**  
*Davainea andrei*  
*Hymenolepis linea*  
**Phasianus colchicus**  
*Choanotaenia infundibulum*  
**Tetrao urogallus**  
*Davainea tetraoensis*  
*Hymenolepis microps*  
*Paroniella urogalli*
- Phylloscopidae**  
*Phylloscopus collybita*  
Gen. sp.
- Picidae**  
**Dendrocopos major**  
*Anomotaenia brevis*  
*Dictymetra* sp.  
*Liga* sp.  
*Monopylidium crateriformis*  
*Orthoskrjabinia conica*  
*Passerilepis crenata*  
**Dryocopus martius**  
Gen. sp.  
**Jynx torquilla**  
*Monopylidium crateriformis*  
**Picus viridis**  
*Monopylidium crateriformis*  
*Raillietina frontina*
- Podicipedidae**  
**Podiceps auritus**  
*Dioicocestus asper*  
*Ligula intestinalis*  
*Tetrabothrius macrocephalus*  
**Podiceps cristatus**  
*Aploparaksis furcigera*  
*Confluaria furcifera*  
*Confluaria multistriata*  
*Confluaria pseudofurcifera*  
*Dollfusilepis hoploporus*  
*Hymenolepis capillaroides*  
*Joyeuxilepis acanthorhyncha*  
*Ligula colymbi*  
*Ligula intestinalis*  
*Tetrabothrius macrocephalus*  
**Podiceps nigricollis**  
*Confluaria furcifera*  
**Podiceps** sp.  
*Dubinolepis rostellata*  
**Tachybaptus ruficollis**  
*Confluaria multistriata*  
*Dioicocestus asper*  
*Joyeuxilepis acanthorhyncha*

**Rallidae*****Fulica atra***

- Diorchis acuminata*
- Diorchis brevis*
- Diorchis inflata*
- Diorchis ransomi*

***Gallinula chloropus***

- Liga gallinulae*

***Rallus aquaticus***

- Bothriocephalus marietani* (sp. inq.)

**Recurvirostridae*****Recurvirostra avosetta***

- Wardium recurvirostrae*

**Scolopacidae*****Calidris pugnax***

- Anomotaenia microrhyncha*

***Gallinago gallinago***

- Aploparaksis filum*

***Numenius arquata***

- Anomotaenia nymphaea*
- Hymenolepis spaerophora*
- Hymenolepis uliginosa*

***Scolopax rusticola***

- Aploparaksis crassirostris*
- Aploparaksis filum*
- Sacciuterina paradoxa*

***Tringa totanus***

- Aploparaksis filum*

**Sittidae*****Tichodroma muraria***

- Hymenolepis tichodroma*

**Strigidae*****Bubo bubo***

- Hydatigera taeniaeformis*

***Strix aluco***

- Gen. sp.

**Sturnidae*****Sturnus vulgaris***

- Dilepis undula*
- Monopylidium albani*
- Monopylidium musculosa*
- Monorcholepis dujardini*
- Passerilepis crenata*
- Sobolevitaenia spinosocapite*

**Sylviidae*****Sylvia atricapilla***

- Anonchotaenia globata*
- Passerilepis brevis*
- Passerilepis passeris*

***Sylvia borin***

- Monopylidium musculosa*
- Passerilepis passeris*

**Turdidae*****Turdus merula***

- Dilepis undula*
- Fernandezia spinosissima*
- Monorcholepis dujardini*
- Passerilepis crenata*
- Sobolevitaenia spinosocapite*
- Sobolevitaenia verulamii*
- Spaspaskya passerum*
- Spiniglans constricta*

***Turdus philomelos***

- Dilepis undula*
- Passerilepis crenata*
- Sobolevitaenia spinosocapite*
- Spiniglans constricta*
- Emberizotaenia raymondi*

***Turdus pilaris***

- Dilepis undula*
- Passerilepis crenata*

***Turdus viscivorus***

- Dilepis undula*
- Passerilepis crenata*

**Upupidae*****Upupa epops***

- Neyraia intricata*

**Mammalia (53)****Bovidae*****Bos taurus***

- Echinococcus granulosus*
- Echinococcus multilocularis*
- Moniezia benedeni*
- Moniezia expansa*
- Taenia hydatigena*
- Taenia multiceps*
- Taenia saginata*
- Thysanosoma actinioides*

***Capra ibex***

- Moniezia benedeni*
- Moniezia expansa*
- Taenia hydatigena*
- Versteria mustelae*

***Ovis aries*\***

- Echinococcus granulosus*
- Moniezia expansa*
- Taenia hydatigena*
- Taenia multiceps*
- Thysaniezia giardi*
- Versteria mustelae*

***Rupicapra rupicapra***

- Echinococcus granulosus*
- Moniezia expansa*
- Taenia hydatigena*
- Taenia secunda*

**Canidae*****Canis familiaris***

- Diphyllobothrium latum*
- Dipylidium caninum*
- Echinococcus granulosus*
- Echinococcus multilocularis*
- Mesocostoides lineatus*
- Taenia crassiceps*
- Taenia hydatigena*
- Taenia multiceps*
- Taenia pisiformis*
- Taenia serialis*

***Vulpes vulpes***

- Atriotaeia incisa*
- Diphyllobothrium latum*
- Dipylidium caninum*
- Echinococcus granulosus*
- Echinococcus multilocularis*
- Hymenolepis* sp.
- Mesocostoides lineatus*

- Mesocestoides litteratus*  
*Taenia crassiceps*  
*Taenia hydatigena*  
*Taenia multiceps*  
*Taenia pisiformis*  
*Taenia polyacantha*
- Castoridae**
- Castor fiber***  
*Echinococcus multilocularis*
- Cervidae**
- Capreolus capreolus***  
*Moniezia expansa*  
*Taenia hydatigena*  
*Taenia krabbei*  
*Taenia multiceps*
- Cervus elaphus***  
*Taenia hydatigena*
- Cricetidae**
- Arvicola amphibius***  
*Arostrilepis horrida*  
*Arostrilepis janickii*  
*Cladotaenia cylindracea*  
*Echinococcus multilocularis*  
*Hydatigera taeniaeformis*  
*Hymenolepis procera*  
*Microticola blanchardi*  
*Paranoplocephala omphalodes*  
*Taenia crassiceps*  
*Taenia pisiformis*
- Chionomys nivalis***  
*Anoplocephaloides dentata*  
*Eurotaenia gracilis*  
*Hydatigera taeniaeformis*  
*Paranoplocephala omphalodes*  
*Rodentolepis asymmetrica*
- Microtus agrestis***  
*Anoplocephaloides dentata*  
*Cladotaenia cylindracea*  
*Eurotaenia gracilis*  
*Hydatigera taeniaeformis*  
*Microticola blanchardi*  
*Paranoplocephala omphalodes*  
*Rodentolepis asymmetrica*  
*Taenia crassiceps*
- Microtus arvalis***  
*Anoplocephaloides dentata*  
*Cladotaenia cylindracea*  
*Echinococcus multilocularis*  
*Eurotaenia gracilis*  
*Hydatigera taeniaeformis*  
*Microticola blanchardi*  
*Paranoplocephala omphalodes*  
*Rodentolepis asymmetrica*  
*Skrjabinotaenia lobata*  
*Taenia crassiceps*  
*Taenia polyacantha*  
*Versteria mustelae*
- Microtus multiplex***  
*Paranoplocephala omphalodes*  
*Taenia crassiceps*  
*Taenia polyacantha*
- Microtus (Pitymys) sp.***  
*Arostrilepis horrida*
- Rodentolepis asymmetrica*  
*Taenia crassiceps*
- Microtus sp.***  
*Echinococcus granulosus*
- Microtus subterraneus***  
*Anoplocephaloides dentata*  
*Eurotaenia gracilis*  
*Rodentolepis asymmetrica*  
*Taenia crassiceps*
- Myodes glareolus***  
*Anoplocephaloides dentata*  
*Catenotaenia henttoneni*  
*Catenotaenia pusilla*  
*Cladotaenia cylindracea*  
*Eurotaenia gracilis*  
*Lineolepis scutigera*  
*Mesocestoides lineatus*  
*Neoskrjabinolepis singularis*  
*Paranoplocephala omphalodes*  
*Rodentolepis asymmetrica*  
*Rodentolepis straminea*  
*Skrjabinotaenia lobata*  
*Taenia martis*  
*Taenia polyacantha*  
*Urocystis prolifer*  
*Versteria mustelae*  
*Vigisolepis spinulosa*
- Equidae**
- Equus caballus***  
*Anoplocephala magna*  
*Anoplocephala perfoliata*  
*Equinia mamillana*
- Erinaceidae**
- Erinaceus europaeus***  
*Rodentolepis erinacei*
- Felidae**
- Felis silvestris***  
*Diphyllobothrium latum*  
*Dipylidium caninum*  
*Echinococcus multilocularis*  
*Hydatigera taeniaeformis*  
*Taenia pisiformis*
- Lynx lynx***  
*Taenia sp.*
- Gliridae**
- Eliomys quercinus***  
*Armadolepis (A.) jeanbaeri*
- Glis glis***  
*Armadolepis (B.) myoxi*  
*Hymenolepis sulcata*
- Hominidae**
- Homo sapiens***  
*Diphyllobothrium dendriticum*  
*Diphyllobothrium latum*  
*Diphyllobothrium nihonkaiensis*  
*Dipylidium caninum*  
*Echinococcus granulosus*  
*Echinococcus multilocularis*  
*Taenia martis*  
*Taenia saginata*  
*Taenia solium*
- Leporidae**
- Lepus europaeus***  
*Echinococcus granulosus*

- Mosgovoyia pectinata*  
*Taenia pisiformis*
- Lepus timidus**  
*Genovia wimerosa*  
*Mosgovoyia pectinata*
- Oryctolagus cuniculus**  
*Cittotaenia denticulata*  
*Neoctenotaenia ctenoides*  
*Taenia multiceps*  
*Taenia pisiformis*  
*Taenia serialis*
- Muridae**
- Apodemus flavicollis**  
*Hydatigera taeniaeformis*  
*Hymenolepis diminuta*  
*Hymenolepis murissylvatici*  
*Mesocestoides* sp.  
*Rodentolepis fraterna*  
*Rodentolepis microstoma*  
*Rodentolepis straminea*  
*Skrjabinotaenia lobata*  
*Taenia martis*
- Apodemus sylvaticus**  
*Catenotaenia pusilla*  
*Cladotaenia cylindracea*  
*Dilepis undula*  
*Hydatigera taeniaeformis*  
*Hymenolepis diminuta*  
*Hymenolepis hibernia*  
*Hymenolepis murissylvatici*  
*Rodentolepis fraterna*  
*Rodentolepis microstoma*  
*Rodentolepis straminea*  
*Skrjabinotaenia lobata*  
*Taenia hydatigena*  
*Taenia martis*  
*Taenia polyacantha*  
*Versteria mustelae*
- Mus musculus**  
*Catenotaenia pusilla*  
*Echinococcus multilocularis*  
*Hydatigera taeniaeformis*  
*Hymenolepis diminuta*  
*Rodentolepis fraterna*  
*Rodentolepis microstoma*  
*Taenia crassiceps*  
*Taenia polyacantha*
- Rattus norvegicus**  
*Hydatigera taeniaeformis*  
*Hymenolepis diminuta*
- Rattus rattus**  
*Catenotaenia pusilla*  
*Hymenolepis diminuta*  
*Rodentolepis fraterna*  
*Taenia crassiceps*  
*Taenia pisiformis*
- Mustelidae**
- Martes foina**  
*Hydatigera taeniaeformis*  
*Taenia intermedia* (sp. inq.)  
*Taenia martis*
- Martes martes**  
*Taenia intermedia* (sp. inq.)
- Meles meles**  
*Atriotaeenia incisa*  
*Taenia angustata* (sp. inq.)  
*Taenia martis*  
*Taenia secunda*
- Mustela erminea**  
*Hydatigera taeniaeformis*  
*Taenia intermedia* (sp. inq.)  
*Versteria mustelae*
- Mustela nivalis**  
*Versteria mustelae*
- Mustela putorius**  
*Versteria mustelae*
- Sciuridae**
- Marmota marmota**  
*Ctenotaenia marmotae*  
*Marmotocephala transversaria*  
*Mosgovoyia pectinata*  
*Taenia crassiceps*
- Sciurus vulgaris**  
*Catenotaenia dendritica*  
*Taenia polyacantha*
- Suidae**
- Sus scrofa**  
*Echinococcus granulosus*  
*Taenia hydatigena*  
*Taenia solium*  
*Versteria mustelae*
- Soricidae**
- Crocidura leucodon**  
*Hymenolepis uncinata*
- Crocidura russula**  
*Dilepis undula*  
*Lineolepis scutigera*  
*Pseudhymenolepis redonica*  
*Staphylocystis furcata*  
*Staphylocystis pistillum*  
*Staphylocystis scalaris*  
*Staphylocystis tiara*
- Crocidura suaveolens**  
*Hymenolepis uncinata*  
*Staphylocystis brusatae*  
*Staphylocystis tiara*
- Neomys anomalus**  
*Coronacanthus integrus*  
*Coronacanthus omissus*  
*Triodontolepis hamanni*
- Neomys fodiens**  
*Coronacanthus integrus*  
*Coronacanthus omissus*  
*Cryptocotylepis globosoides*  
*Molluscotaenia crassiscolex*  
*Neomylepis magnirostellata*  
*Soricinia globosa*  
*Staphylocystis alpestris*  
*Taenia polyacantha*  
*Triodontolepis bifurca*  
*Triodontolepis hamanni*
- Sorex alpinus**  
*Ditestolepis diaphana*  
*Gulyaevilepis tripartita*  
*Molluscotaenia crassiscolex*  
*Neoskrjabinolepis merkushevae*



*Neoskrjabinolepis schaldybini*  
*Soricina infirma*  
*Staphylocystis pistillum*  
*Urocystis prolifer*  
*Vigisolepis spinulosa*

**Sorex araneus**  
*Cryptocotylepis globosoides*  
*Dilepis undula*  
*Ditestolepis diaphana*  
*Gulyaevilepis tripartita*  
*Hepatocestus hepaticus*  
*Lineolepis scutigera*  
*Molluscotaenia crassiscolex*  
*Neoskrjabinolepis merkushevae*  
*Neoskrjabinolepis schaldybini*  
*Neoskrjabinolepis singularis*  
*Soricina infirma*  
*Staphylocystis furcata*  
*Staphylocystis pistillum*  
*Staphylocystis scalaris*  
*Staphylocystis tiara*  
*Staphylocystoides stefanskii*  
*Urocystis prolifer*  
*Vigisolepis spinulosa*

**Sorex minutus**  
*Ditestolepis diaphana*  
*Lineolepis scutigera*

*Molluscotaenia crassiscolex*  
*Neoskrjabinolepis merkushevae*  
*Neoskrjabinolepis schaldybini*  
*Skrjabinacanthus jacutensis*  
*Soricina infirma*  
*Staphylocystis furcata*  
*Staphylocystis scalaris*  
*Staphylocystoides stefanskii*  
*Urocystis prolifer*  
*Vigisolepis spinulosa*

**Talpidae*****Talpa europaea***

*Hydatigera taeniaeformis*  
*Multitesticulata filamentosa*  
*Staphylocystis bacillaris*  
*Versteria mustelae*

**Vespertilionidae*****Myotis myotis***

*Milina grisea*

***Myotis mystacinus***

*Vampirolepis balsaci*

***Nyctalus noctula***

*Staphylocystis acuta*  
*Vampirolepis baeri*

***Plecotus auritus***

*Vampirolepis balsaci*

**Annex 1:** List of specimens in collections. Catalogue numbers without collection reference are from the Muséum d'histoire naturelle de Genève (MHNG-PLAT-). Type status is indicated with HOLO (Holotype), LECTO (Lectotype), PARA (Paratype), SYNT (Syntype) or TYPE (Type of unknown status).

**BOTHRIOCEPHALOIDEA,** TRIAENOPHORIDAE, *Bathybothrium rectangulum* 27276, 40291, 55791, 55798, *Eubothrium crassum* 17858-9, 19002, 19327, 23873, 28077-8, 28080-1, 38317, 40808-9, 88297-302, *Eubothrium salvelini* IPCAS H02/1, IPCAS C126/12, 27278, 29413, 38313, 38364, 33625, 36722-6, 36728-9, 55807, 82342-4, 82660, ZMZ-122912, *Triaenophorus crassus* 42479-81, 55808, 57528, 57532, NHM 1928.1.9.130-134, *Triaenophorus nodulosus* 11607, 18170, 18498, 27937, 36003-7, 38257, 38262, 42482-6, 54161, 54426, 57662, 57667-8, 63396-8

**CARYOPHYLLIDEA,** CARYOPHYLLIDAE, *Caryophyllaeus fimbriceps* 78801-3, LYTOCESTIDAE, *Caryophyllaeus laticeps* 18338, 27277, 38331, 39225, 40289, 70965, 71127, 78800, 78837, 78840-4, USNM 1355422-3, *Caryophyllaeus fennica* 78797, NHM 1928.1.9.202-203, USNM 1355424-5, *Khawia baltica* 78804-5

**CYCLOPHYLLIDEA,** AMABILIIDAE, *Joyeuxilepis acanthoryncha* 42356, ANOPLOCEPHALIDAE, *Anoplocephala magna* 38376, 56118, *Anoplocephala perfoliata* 40241, 56079, *Anoplocephaloides dentata* 17608, 18408, 30635, 41787, 82353, 82370, 82372, 82396-7, *Atriotaeonia incisa* 14620, 57153, 57180, *Ctenotaenia marmotae* 130473, 27280, 38616

(HOLO of *Cittotaenia avicola*), 38617, 37276, 38332, 40497-8, 40500-1, *Equinia mamillana* 41792-4, 56113, *Eurotaenia gracilis* 11430-2 **PARA** (of *Paranoplocephala gracilis*), 11583, 19182, 38187, 82345, 82349, 82351, 82374-5, *Genovia wimerosa* 41803-4, *Microticola blanchardi* 13482, 82346, *Moniezia benedeni* 38304, 41600-1, 56047, 56059, *Moniezia expansa* 41588-9, 57237, *Mosgovovia pectinata* 40503, 40508, 57115, 57171, *Neoctenotaenia ctenoides* 40489, 56164, 56167, *Oochoristica rotundata* 41696, *Paranoplocephala omphalodes* 12153, 12166, 12217, 13857, 17742, 17771, 20000, 38186, 40078-9, 41795-6, 41799-800, 82378, 82383, *Thysaniezia giardi* 40898-900, *Thysanosoma actinioides* 42471, CATENOTAENIIDAE, *Catenotaenia dendritica* 40369-70, *Catenotaenia henttoneni* 17637-8, 18361, 18368, 39305 39378 39446, *Catenotaenia pusilla* 37655, 40379-81, *Skrjabinotaenia lobata* 12162, 17625-8, DAVINEIDAE, *Davainea andrei* 40620 **SYNT**, *Davainea proglottina* 27994, 28053, *Davainea tetraoensis* 55227, *Fernandezia spinosissima* 18326, 32733-5, 77626, *Idiogenes flagellum* 27997, *Paroniella urogalli* 27997, *Raillietina frontina* 42078, *Raillietina tetragona* 27315, 27984, *Skrjabinia bonini* 42034, 55973, NHM 1928.1.6.107-116, USNM 1318063, USNM 1348473 **SYNT** of *R. columbae*, *Skrjabinia cesticillus* 27986, 28076, DILEPIDIDAE, *Anomotaenia brevis* 13476, *Anomotaenia cyathiformis* 40119, *Anomotaenia dehiscens* 27910, 40121-2, NHM 1928.1.9.43-48, *Anomotaenia microphallos* 40154, 40157, 56925, *Anomotaenia microrhyncha* 39308, *Anomotaenia stentorea* 39307, *Burhinotaenia coronata* 41822, *Choanotaenia orioli* 40455 **SYNT**, 40459, *Choanotaenia passerina* 15350, 39309, *Dictymetra* sp. 50022, *Dilepis cypselina* 40638, *Dilepis undula*

- 11435, 11494, 11608, 12161, 13400, 13475, 15348, 17736, 17614, 17824, 18434, 18553, 27940, 27970, 32725-32, 32767-72, 38279, 38888, 38904, 38942, 38963, 39386, 39394, 40666-7, 40670, 77627-30, *Hepatocestus hepaticus* 11483, *Liga* sp. 50023, *Molluscotaenia crassiscolex* 11380, 11394, 11399, 11413, 11420, 11480-1, 11485, 11489-90, 11578, 11581, 11613, 14289, 17743, 17749-51, 17765, 18174, 18178, 18219, 18229, 18232, 18234, 18245, 18378, 18429, 18478, 18481, 18483, 18485, 18552, 30630, 30640, 30661, 30687, 30808, 30899, 38884, 38887, 38892, 38896, 38899, 38903, 38922, 38930, 38932, 38935, 38941, 38943, 38948, 38952, 38962, 38967, 38970, 38972, 38978, 38981, 38988, 38992, 38996, 39001, 39005, 39011, 39017, 39026, 39031-2, 39322, 39331, 39365-6, 39368, 39373, 39376, 39379, 39384-5, 39390, 39392-3, 39397, 39400, 39402-3, 39406, 39408, 39410, 39417, 39419-20, 39438, 39440, 40440, 41623, 48316, 82357, 82379, *Monopylidium albanii* 32776, *Monopylidium crateriformis* 27295, 40443-4, 40441-2, *Monopylidium galbulae* 40130, *Monopylidium muscosa* 32775, 40452, *Multitesticulata filamentosa* 13776, 17823, 18367, 39303, 39480, 41613-4, *Neoliga depressa* 27908-9, 39313, 40123-4, *Paricterotaenia porosa* 18377, 27929, 27945, 40821, 41854, 41856, NHM 1928.1.9.170-175, *Platyscolex ciliata* MUW-114097, *Pseudangularia* sp. 40123, *Sobolevitaenia spinosocapite* 32724, 32773-4, 38278, 57134, *Sobolevitaenia verulamii* 13401, 40117, *Spasspasskya passerum* 11434, 13474, 40178, *Spiniglans affinis* 32745, *Spiniglans constricta* 27964, 28086, *Emberizotaenia raymondi* 32503 **HOLO**, 32504 **PARA**, 82652 **PARA** (of *Unciunia raymondi*), DIOICOCESTIDAE, *Dioicocestus asper* 40680, DIPYLIDIIDAE, *Dipylidium caninum* 17864, 18343, 28082, 28084, 40747-8, 40751, 40753, 40755, 56123, GRYPORHYNCHIDAE, *Paradilepis scolecina* 41776-8, HYMENOLEPIDIDAE, *Anatinella kazachstanica* 57479-80, MUW-114104, MUW-114107, *Aploparaksis cirrosa* 27930, *Aploparaksis crassirostris* 27941, *Aploparaksis filum* 27312, 38294, 40878-9, *Aploparaksis furcigera* 40887-8, 56550, *Armadolepis (A.) jeanbaeri* 17611, 39226-9 **PARA**, 41189 **HOLO**, 41190 **PARA**, *Armadolepis (B.) myoxi* 13858-5, *Arostrilepis horrida* 13867-8, 18514, 19293, 19309, 19664, 30491, 30553, 41097, *Arostrilepis janickii* 13866 **PARA**, 18499 **PARA**, 18513 **PARA**, 19291 **PARA**, 19300 **PARA**, 19308 **PARA**, 19662 **PARA**, 41096 **HOLO**, *Cladogynia guberiana* 15589, 57464, 57467, MUW-70736, MUW-70750-6, *Cladogynia macracanthos* 41125-9, 55608 **SYNT** (of *Hymenolepis macracanthos*), NHM 1928.1.9.33-42, *Cladogynia serrata* 41270, *Cloacotaenia megalops* 41144, MUW-114116, *Confluaria furcifera* 49190, *Confluaria multistriata* 27934, NHM 1928.1.9.66-73, *Confluaria pseudofurcifera* 18328, 40964, 40971 **PARA**, 41076 **PARA**, 41077 **HOLO**, 41236 **PARA**, 41289, 124885, *Coronacanthus integrus* 15351, 17755-6, 30675, 39029-30, 39033-4, 39041, 39043, 39289, 39292, 41090, 41100-2, 41210, *Coronacanthus omissus* 39027, 39288, 39290-1, 41210-11 **SYNT**, 49031, *Coronacanthus integrus* 41237 **SYNT** (of *Hymenolepis polyacantha*), *Cryptocotylepis globosoides* 10736, 19290, 39317, 41084, *Dicranotaenia coronula* 27975, 28089, 41001-3, *Diorchis acuminata* 40683, 40694, 55782, MUW-114109, *Diorchis ransomi* MUW-71581-8, MUW-114111, *Diploposthe laevis* 55640, *Ditestolepis diaphana* 11389, 11408, 11415, 11418, 11476, 11488, 11587, 17778, 18231, 18233, 18382, 18535-8, 18851, 26382, 26384, 30663, 30666, 30678, 30805-6, 36339, 38881, 38894, 38907, 38913, 38920-1, 38926, 38940, 38945-6, 38955, 38966, 38976-7, 38985, 38990, 38995, 38999, 39009, 39015-6, 39020, 39022-3, 39267, 39320, 39362, 39381, 39388, 39399, 39412, 39414, 39435, 39694, 41015, 82356, *Dollfusilepis hoploporus* 40964, *Dubininolepis rostellata* 41251-4, 41256, 56554, *Echinocotyle anatina* 27983, NMB-CEST-00039a, *Echinolepis carioca* 40974, *Fimbriaria fasciolaris* 39310-11, 40820, 55624, MUW-50053, *Gulyaevilepis tripartita* 18226, 18382, 26382, 38891, 38921, 38977, 39009, 39016, 39022, *Hispaniolepis villosa* 27303, 55742 NMB-CEST-00033a, *Hymenolepis armata* 55765, *Hymenolepis capillaroides* 40968, *Hymenolepis diminuta* 17735, 30801, 41018, 41021, *Hymenolepis hibernia* 27286, 27927, 27938, 41168, *Hymenolepis murissylvatici* 17633-6, 18524-6, 39279, 39281, 39284, 39286, 41187-8, *Hymenolepis simulans* 44405, *Hymenolepis* sp. 41228, *Hymenolepis sulcata* 13723-32, 13777 13854, *Hymenolepis teresoides* 41319, *Hymenolepis uliginosa* 27926, *Hymenolepis uncinata* 17808-11, 39364, *Lineolepis scutigera* 11378, 11382, 11386, 11410, 11412, 11416, 11475, 11492, 11501, 11579-80, 11600, 17761-3, 18546, 30667, 38890, 38895, 38898, 38914, 38917, 38925, 38929, 38934, 38938, 38956, 38997, 39002, 39007, 39013, 39021, 39264, 39268, 39326, 39330, 39353, 39374, 39377, 39380, 39396, 39411, 39431, 39441, 38910, 41326 **SYNT** (of *Hymenolepis toxometra*), *Microsomacanthus abortiva* 40916, 40918, 55634, *Microsomacanthus arcuata* 40933, 41344, 55621, 55771, *Microsomacanthus collaris* 27943, 40984-6, *Microsomacanthus compressa* 40999, *Microsomacanthus microcephalus* 27953, *Microsomacanthus microsoma* 37989, *Microsomacanthus paracompressa* MUW-114092-4, MUW-114101, MUW-114112-3, MUW-114117-9, MUW-114123, *Microsomacanthus setigera* 41273, 41278, *Microsomacanthus spirallibursata* MUW-114090-1, MUW-114096, MUW-114099, MUW-114114, MUW-114120, MUW-114122, *Milina grisea* 14781, 18534, *Monorcholepis dujardini* 11585, *Neomylepis magnirostellata* 18390, 30676, 39036, 41134 **SYNT**, *Neoskrjabinolepis merkushevae* 11417, 11421, 11504-5, 11601, 11779, 17974, 18227, 18235, 38905, 38911, 39369, 39418, *Neoskrjabinolepis schaldybini* 11383, 11387, 11391, 11396-7, 11403, 11482, 11484, 11493, 11497-8, 11571, 11576, 11590, 11592, 11596-7, 11599, 11602, 11605-6, 17746, 17760, 18173, 18176, 18230, 18380, 18431, 18433, 18480, 18506, 18547-8, 30602, 30604, 30639, 30662, 30665, 30802, 30807, 36338, 36732, 38882, 38897, 38902, 38908-9, 38919, 38924, 38928, 38937, 38944, 38954, 38958, 38960, 38969, 38975, 38980, 38984, 39025, 39266, 39316, 39327, 39329, 39349, 39354, 39367, 39383, 39401, 39437, 39442, 41261-2, *Neoskrjabinolepis singularis* 11379, 11385, 11392, 11395, 11401, 11404, 11406, 11499, 11574, 11577, 11588, 11594, 11598, 11610, 39018, 39351, 39356, 39426, 39439, *Parabissacanthus bisacculina* 40952, *Parabissacanthus philactes* 15588, 57471, 57478, MUW-114103, MUW-114105-6, MUW-114121, *Passerilepis brevis* 32750-1, *Passerilepis crenata* 11433, 12160, 13399, 27965, 27978, 32736-7, 32742-3, 32779-83, 32843, 35742-4, 41013, 41264, *Passerilepis passeris* 15603, 32748-9, 32784-6, 41069-70, *Passerilepis stylosa* 27291, 27985, 41313, 41315, 41317, 55927, *Pseudhymenolepis redonica* 15471, 17754, 17819, 18387, 18554-5, 42014 **SYNT**, *Rodentolepis asymmetrica* 11779-81, 11785-6, 17613, 18156, 18165, 18362-4, 18365, 18399, 18502-3, 18509, 18511, 19075, 19078, 19162-4, 19181, 19183-5, 19203, 19205-6, 19321, 19328, 19663, 30533, 30549, 30668-9, 30672-3, 39304, 39413, 40938, 40940, 41308, 82387, 129733, *Rodentolepis erinacei* 41032, *Rodentolepis fraterna* 41063-7, *Rodentolepis microstoma* 15346, 37496-503, 37507, 37509, 37511, 37644-51,

41164, 41167, 41172, *Rodentolepis straminea* 11565, 17612, 18508, 18517-22, 18532, 35297, 39294-5, 82473, *Skrjabinacanthus jacutensis* 11496, *Sobolevicanthus fragilis* 41059, *Sobolevicanthus gracilis* 27911, 27981-2, 41087, MUW-70552-4, MUW-114100, MUW-114102, *Sobolevicanthus gracilissimus* MUW-70631, *Sobolevicanthus krabbella* MUW-114095, *Soricinia globosa* 19292, 41083 **SYNT** (of *Hymenolepis globosa*), *Soricinia infirma* 11384, 11414, 11419, 11503, 11591, 24135, 26360, 30804, 38947, 38961, 38987, 38991, 39000, 39010, 39328, 39361, 39371, 39415, 39429, 39433, 39436, 82355, *Staphylocystis alpestris* 40924 **SYNT** (of *Hymenolepis alpestris*), *Staphylocystis brusatae* 17816-8, 39407, *Staphylocystis furcata* 11400, 11423, 11486, 11495, 11500, 11573, 11595, 11612, 18175, 18217, 18258, 18430, 18504, 18510, 18540, 30555, 38900, 38973, 39398, 39409, 39427, 41073-5, *Staphylocystis pistillum* 17739, 17753, 17759, 17785, 17787-8, 17790, 18542-3, 29656, 36340, 41075, 41231-3, 41235, 42506, 49191, 49248, 49250, *Staphylocystis scalaris* 17740, 17780-4, 17786, 18253, 41260, *Staphylocystis tiara* 17741, 17801-7, 18435, 18544-5, 39280, 39375, 39421, 41322, *Staphylocystoides stefanskii* 11388, 11390, 11398, 11407, 11422, 11481, 11572, 11593, 18479, 18539, 18549, 38906, 38912, 39004, 39265, 39430, 41303-4, *Triodontolepis bifurca* 18257, 39028, 39283, 39293, 40945, *Triodontolepis hamanni* 10737, 17748, 39282, 41089, *Urocystis prolifer* 11479, 11487, 11502, 11604, 17745, 17764, 17777, 18177, 18220, 18259, 18379, 18550-1, 18553 18842, 30637, 30664, 30674, 30677, 30803, 38893, 38918, 38939, 38951, 38965, 38986, 38989, 38994, 38998, 39003, 39014, 39019, 39318-9, 39325, 39350, 39370, 39382, 39389, 39395, 39416, 39432, 39434, 39443, 41196 **SYNT** (of *Vampirolepis neomidis*), 48042, 48315, *Vampirolepis baeri* 18329 **HOLO**, 27230, *Vampirolepis balsaci* 14780, 14782, 39341-3, 39345, 40943, *Vigisolepis spinulosa* 11381, 11393, 11402, 11405, 11409, 11411, 11575, 11589, 11603, 11611, 18218, 18228, 18381, 18432, 30554, 38883, 38885, 38889, 38901, 38916, 38923, 38927, 38931, 38933, 38936, 38950, 38953, 38957, 38959, 38968, 38974, 38979, 38983, 39006, 39012, 39024, 39315, 39321, 39323-4, 39352, 39391, 39404, 41301-2, *Wardium arciminosa* 18533, 27282, 27285, 27974, 39306, *Wardium recurvirostrae* 27287, 27939, 27972, *Wardoides nyrocae cygni* MUW-114108, MUW-114110, **MESOCESTOIDIDAE**, *Mesocestoides lineatus* 14550, 14562, 14580, 14582-94, 14601-2, 14604-5, 14607-11, 39339, 41539, 41541, 45076, *Mesocestoides litteratus* 27912-3, *Mesocestoides perlatus* 27310-1, *Mesocestoides* sp. USNM1397704, *Nematotaenia dispar* 27931, 38025, 38285, 40599, 41638, **PARUTERINIDAE**, *Anonchotaenia globata* 32747, 40218, 41869, *Cladotaenia cylindracea* 39312, 40524, 40528, *Cladotaenia globifera* 27936, 27948, 32744, *Neyraia intricata* 41647, *Notopentorchis* sp. 137308, *Orthoskrjabinia bobica* 18327, 32778, *Orthoskrjabinia conica* 32746, 32777, *Spasskyterina trianguloides* 17596, **TAENIIDAE**, *Echinococcus granulosis* 38321, 40789-90, 43510-1, *Echinococcus*

*multilocularis* 14544, 14581, 40789-90, 42312, 42316, 43510-1, *Hydatigera taeniaeformis* 13765-75, 13856, 14230, 14276, 14628, 17606-7, 17772-3, 18210, 18512, 27254, 31071, 32752, 37387, 37389-91, 37401, 38216, 39285, 39287, 42350, 48040,, *Taenia crassiceps* 14272, 14279, 14534, 14536, 14538-42, 14546-9, 14551, 14554-6, 14558, 14561, 14563, 14565-71, 14574-5, 14577-9, 14599, 17605, 18180, 18336, 18351, 24478, 27900, 27942, 27966, 37388, 38214-5, 38219, 38222, 38318, 42255-61, *Taenia martis* 14637-66, 14716-9, 14726, 15355, 15414-6, 15428-9, 17601-2, 17737-8, 17868-70, 18507, 18528-9, 24334, 30580, 41234, 42290-2, 42294, *Taenia multiceps* ZMZ-G224, *Taenia pisiformis* 14552-3, 38263, 38265, 40605, 42312-3, 42315-6, *Taenia polyacantha* 14535, 14537, 14543, 14557, 14564, 14572-3, 14576, 15545, 14600, 17603, 17861-2, 28162, 28166-7, 30506-7, 39230-1, 41237 **SYNT**, 42317, 42319, 48333, 56818, *Taenia saginata* MHNF-5849, 42328-9, 38268, 38270-2, 57166, NWSW-13092, ZMZ-122915, ZMZ-122796, ZMZ-122761, *Taenia serialis* 41016, *Taenia solium* 42252, 42338, 57273, ZMZ-120573, *Versteria mustelae* 17600, 24333, 28085, 38337, 42300-2, 423614, 58867

**DIPHYLLOBOTHRIDAE**, **DIPHYLLOBOTHRIDAE**, *Diphyllobothrium latum* 18383, 18385, 27273, 27995, 38371-2, 40708-11, 43073-5, 43079-80, 56260, 57124, 82431, USNM 1348495-6, *Ligula digramma* 38380, *Ligula intestinalis* 17865, 38302, 38305, 38309, 38312, 38315, 41508, GBIFCH00596771, NMB-CEST-00009b, ZMZ-120412, ZMZ-120577, *Schistocephalus solidus* GBIFCH00596744

**ONCOPROTEOCEPHALIDAE**, **PROTEOCEPHALIDAE**, *Corallobothrium parafimbriatum* 32994, *Glanitaenia osculata* IPCAS C49/1, 67699-700, 68395-7, 84707-10, 84712, 91260, 91839-42, *Ophiotaenia europaea* 49149, *Proteocephalus flicicollis* 27302, 41985, *Proteocephalus longicollis* 15601, 16920-3, 16925, 19239, 19278, 19280-4, 19667-8, 21681, 27301, 38353, 41529, 41353-4, 41356, 41358, 41367 **SYNT** (*P. salmonisumblae*), 86982, NHM 1998.2.178.42, NHM 1998.2.20.1-2, NHM 1998.5.14.4, USNM 1348661 **TYPE**, USNM 1348668 **LECTO**, USNM 1382490, USNM 1382832, USNM 1382933, USNM 1395121, *Proteocephalus percae* IPCAS C29/1, 16924, 19238-45, 19268-77, 19279, 19285-8, 27300, 28749-50, 36744-5, 39479, 41357, 41363-5, 54160, 57357, 61489, 63221, 63395, 63399-400, NHM 2000.1.25.19, NHM 2000.6.1.1-2, USNM 1348656 (**TYPE** of *P. dubius*), USNM 1382102, USNM 1382827, USNM 1385360-1, *Proteocephalus torulosus* IPCAS C32/1, 19666, 27916, 41368

**SPATHEBOTHRIDAE**, **ACROBOTHRIDAE**, *Cyathocephalus truncatus* 15600, 32823, 38330, 40579-80, 55813, 70959, 70960-1, 70963, 88303

**TETRABOTHRIDAE**, **TETRABOTHRIDAE**, *Tetrabothrius (T.) macrocephalus* 42432, 55979