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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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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 plethoric, 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; NWSW: 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. filicollis* 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. fillicolis* 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 ususual 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 extant 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 Oncoproteocephalidea 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./10'000 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 Podicepidiformes.

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.

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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.

BOTHRIOCEPHALIDEA

Triaenophoridae Lönnberg, 1889

Bathybothrium Lühe, 1802				
*B. rectangulum** (Bloch, 1782) - (*Abothrium rectangulum, Bothriotaenia rectangulus*)				
	Cyprinidae	*Barbus barbus*°	Nufer 1905	BA, N, O, V
	Percidae	*Perca fluviatilis*	L	BA
Bothriocephalum marietani Galli-Valerio, 1930 (sp. inquirenda)				
	Rallidae	*Rallus aquaticus*	Galli-Valerio 1930, Gaschen 1950, Kuchta & Scholz 2007	VS
Eubothrium Nybelin, 1922				
*E. crassum** (Bloch, 1779) - (*Abothrium crassum, Ichthyotaenia percae*)				
	Salmonidae	*Coregonus fera*	Zschokke 1933	NE, L
	Salmonidae	*Coregonus macrophtalmus*	Zschokke 1933	N, V
	Salmonidae	*Coregonus wartmanni*	Zschokke 1933	O, V
	Salmonidae	*Salmo trutta*°	Fuhrmann 1926, Hörning 1963, Sublet 1987	BA, GE, NE, VD, VS, L, O/1961-8, 1977, 1986-98
	Salmonidae	*Salmo salar*°	Zschokke 1889, Fuhrmann 1926	BA
*E. rugosu*m* (Batsch, 1786)				
	Lotidae	*Lota lota*°	Fuhrmann 1926	L, N, O, V
*E. salvelini** (Schrank, 1790) - (*Bothriocephalus infundibuliformis, Abothrium infundibuliformis*)				
	Cottidae	*Cottus gobio*°	L Fuhrmann 1926	O
	Cyprinidae	*Barbus barbus*°	L Fuhrmann 1926	O
	Esocidae	*Esox lucius*°	L Blanc 1887	L, O, Z
	Leuciscidae	*Squalius cephalus*°	L Nufer 1905	O, V
	Lotidae	*Lota lota*°	L Zschokke 1884, Nufer 1905	L, V
	Percidae	*Perca fluviatilis*°	L Zschokke 1884, Nufer 1905	L, N, O, V
	Salmonidae	*Coregonus fera*°	Zschokke 1884	L
	Salmonidae	*Coregonus macrophtalmus*°	Zschokke 1933	V
	Salmonidae	*Coregonus wartmanni*°	Zschokke 1933	O, V
	Salmonidae	*Salmo salar*°	Zschokke 1896	BA
	Salmonidae	*Salmo trutta*°	L Zschokke 1884, Nufer 1905	L, V
	Salmonidae	*Salvelinus umbla*°	L Galli-Valerio 1901, Nufer 1905	GE, VD, L, N, O, V/1999, 2000, 2002
	Salmonidae	*Thymallus thymallus*°	L Zschokke 1884	BA, L, N, O
	Siluridae	*Silurus glanis*°	L Fuhrmann 1926	O
Triaenophorus Rudolphi, 1793				
*T. crassus** Forel, 1868 - (*Trianophorus robustus*)				
	Esocidae	*Esox lucius*°	Fuhrmann 1909, Fuhrmann 1926	BE, NE, ZG, B, L, N/1907, 1938
	Salmonidae	*Coregonus* sp.	L	ZG
	Salmonidae	*Coregonus lavaretus*	L Karvonen *et al.* 2013	V/2009-10
*T. nodulosus** (Pallas, 1781) - (*Trianeophorus lucii*)				
	Cottidae	*Cottus gobio*°	L Nufer 1905	V
	Esocidae	*Esox lucius*°	L Lunel 1879, Blanc 1887, Nufer 1905, Fuhrmann 1909	BA, GE, NE, L, N, O, V/1923, 1969, 1994, 2002-9
	Leuciscidae	*Alburnus alburnus*°	L Lunel 1879, Nufer 1905	L, V
	Lotidae	*Lota lota*°	L Lunel 1879, Nufer 1905, Fuhrmann 1909, Hörning 1963	CH/1907, 1938, 1961-3
	Percidae	*Perca fluviatilis*°	L Forel 1868, Nufer 1905, Fuhrmann 1909, Hörning 1963	GE, OW, VD, L, N, O, V/1867, 1961-3, 1994-6
	Phoxinidae	*Phoxinus phoxinus*	L Nufer 1905	V
	Salmonidae	*Coregonus fera*°	L Zschokke 1933	GE, V
	Salmonidae	*Coregonus macrophtalmus*°	L Zschokke 1933	N, V
	Salmonidae	*Coregonus wartmanni*°	L Nufer 1905, Zschokke 1933	BE, O, U, V
	Salmonidae	*Salmo trutta*°	L Lunel 1879, Zschokke 1884	BE, L
	Salmonidae	*Salvelinus umbla*°	L Zschokke 1884, Nufer 1905	L, V
	Salmonidae	*Thymallus thymallus*°	L Zschokke 1884	BE, L, O
	Tincidae	*Tinca tinca*	L Galli-Valerio 1901	A

CARYOPHYLLIDEA

Caryophyllaeidae Leuckart, 1878

Caryophyllaeus Gmelin, 1790

C. fimbriceps Annenkova-Chlopina, 1919

Cyprinidae	*Cyprinus carpio*			1919, 1925

*C. laticeps** (Pallas, 1781) - (*Caryophyllaeus mutabilis*)

Cottidae	*Cottus gobio*°		Nufer 1905	V
Cyprinidae	*Cyprinus carpio*°		Fuhrmann 1926	BE, N
Leuciscidae	*Abramis brama*°		Nufer 1905, Huber 1988	NE, O, L, N, V/1914, 1960, 1964, 1968, 1976
Leuciscidae	*Alburnus alburnus*°		Fuhrmann 1926	O
Leuciscidae	*Blicca bjoerkna*°		Nufer 1905	O, V
Leuciscidae	*Chondrostoma nasus*°		Nufer 1905	BA, V
Leuciscidae	*Rutilus rutilus*°		Huber 1988	VD, L, N, O, V/1960
Leuciscidae	*Squalius cephalus*°		Zschokke 1884, Nufer 1905	NE, L, O, V
Tincidae	*Tinca tinca*°		Fuhrmann 1926, Huber 1988	L
Tubificidae	*Limnodrilus claparedianus*°	L	Fuhrmann 1926	NE, A, Z
Tubificidae	*Tubifex barbatus*°	L	Fuhrmann 1926	VD
Tubificidae	*Tubifex tubifex*°	L	Fuhrmann 1926	VD, A, N

Lytocestidae Hunter, 1927

Caryophyllaeides Nybelin, 1922

*C. fennica** (Schneider, 1902) - (*Caryophyllaeus fennicus, Caryophyllaeides fennicus, Cyrophyllaeus mutabilis*)

Leuciscidae	*Blicca bjoerkna*			N/1960
Leuciscidae	*Chondrostoma nasus*°		Fuhrmann 1926	BA
Leuciscidae	*Rutilus rutilus*°		Fuhrmann 1926	V
Leuciscidae	*Scardinius erythrophthalmus*			NE/1960
Leuciscidae	*Squalius cephalus*°		Zschokke 1884, Fuhrmann 1926	L, N

Khawia Hsü, 1935

K. baltica Szidat, 1942

Tincidae	*Tinca tinca*			1933, 1934

CYCLOPHYLLIDEA

Amabiliidae Braun, 1900

Joyeuxilepis Spasskii, 1947

*J. acanthorhyncha** (Wedl, 1855) - (*Tatria acanthorhyncha*)

Podicipedidae	*Podiceps cristatus*°		Fuhrmann 1926	N
Podicipedidae	*Tachybaptus ruficollis*			NE

Anoplocephalidae Blanchard, 1891

Anoplocephala Blanchard, 1848

*A. magna** (Abildgaard, 1789) - (*Anomotaenia plicata*)

Equidae	*Equus caballus*°		Galli-Valerio 1901, Fuhrmann 1926	BE, GE, NE, VD, ZH

*A. perfoliata** (Goeze, 1782)

Equidae	*Equus caballus*°			NE, VD, ZH

Anoplocephaloides Baer, 1923

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

Cricetidae	*Chionomys nivalis*			GR, VS/1996
Cricetidae	*Microtus agrestis*			VS/2000
Cricetidae	*Microtus arvalis*			VS/1968
Cricetidae	*Microtus subterraneus*			GR, VD/1973, 1996
Cricetidae	*Myodes glareolus*			GE/1963

Atriotaenia Sandground, 1926

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

Canidae	*Vulpes vulpes*			VD/1962
Mustelidae	*Meles meles*		Hörning 1963	BL, NE, VD/1956, 1961-3

Cittotaenia Riehm, 1891

*C. denticulata** (Rudolphi 1804) - (*Ctenotaenia goezi*)

Leporidae	*Oryctolagus cuniculus*°		Galli-Valerio 1910	BE, VD/1910

Ctenotaenia Railliet, 1895

*C. marmotae** (Froelich, 1802) - (*Cittotaenia avicola, C. marmotae, Ctenotaenia avicola*)

	Anatidae	*Anas* sp.°	Fuhrmann 1897	GE (?) [1]
	Scarabaeidae	*Amidorus obscurus*° L	Galli-Valerio 1918, 1925	VS
	Sciuridae	*Marmota marmota*°	Galli-Valerio 1918, 1940, Bouvier 1963, Hörning 1966	FR, GR, UR, VD, VS/1917, 1961-4
Equinia Haukisalmi, 2009				
*E. mamillana** (Mehlis in Guilt, 1831) - (*Anoplocephala mamillana, Anoplocephalus mamillana, Paranoplocephala mamillana*)				
	Equidae	*Equus caballus*°		BE, NE, ZH/1920
Eurotaenia Haukisalmi, Hardman, Hoberg & Henttonen, 2014				
E. gracilis (Tenora & Murai, 1980)				
	Cricetidae	*Chionomys nivalis*		VD/1994
	Cricetidae	*Microtus agrestis*		VD, VS/1968, 1993
	Cricetidae	*Microtus arvalis*		VD/1993
	Cricetidae	*Microtus subterraneus*	Tenora & Murai 1980	UR, VS/1966, 1971
	Cricetidae	*Myodes glareolus*		VD/1993
Genovia Haukisalmi, 2009				
G. wimerosa (Moniez, 1880) - (*Anoplocephaloides wimerosa, Paranoplocephala wimerosa*)				
	Leporidae	*Lepus timidus*		VS
Marmotocephala Gvozdev, Zhigileva & Gulyaev, 2004				
*M. transversaria** (Krabbe, 1879) - (*Paranoplocephala transversaria*)				
	Sciuridae	*Marmota marmota*	Kreis 1962, Hörning 1966	GR
Microticola Haukisalmi, Hardman, Hoberg & Henttonen, 2014				
M. blanchardi (Moniez, 1891) - (*Anoplocephala blanchardi, Paranoplocephala blanchardi*)				
	Cricetidae	*Arvicola amphibius*	Gaschen 1950	
	Cricetidae	*Microtus agrestis*		VD/1993
	Cricetidae	*Microtus arvalis*		VD/1974
Moniezia Blanchard, 1891				
*M. benedeni** (Moniez, 1879) - (*Moniezia denticulata, Moniezia planissima, Moniezia rupicaprae*)				
	Bovidae	*Bos taurus*°	Fuhrmann 1926	BA, BE, NE, TG, ZH/1916
	Bovidae	*Capra ibex*	Bouvier & Hörning 1963	GR/1961-3
*M. expansa** (Rudolphi, 1805)				
	Bovidae	*Bos taurus*°		BE, GE, ZH/1930
	Bovidae	*Capra ibex*	Bouvier & Hörning 1963, Hörning 1963	GE, VD, VS/1961-3
	Bovidae	*Ovis aries*°	Gaschen 1950	BE, NE, VD, ZH/1987
	Bovidae	*Rupicapra rupicapra*	Hörning 1963	VS/1961-3
	Cervidae	*Capreolus capreolus*	Hörning 1963	BE, GR, NE, OW, VD/1961-3, 1970-1
Mosgovoyia Spasskii, 1951				
*M. pectinata** (Goeze, 1892) - (*Catenotaenia pectinata, Cittotaenia pectinata*)				
	Leporidae	*Lepus europaeus*	Hörning 1963	NE, OW, TI, VD, VS/1961-3
	Leporidae	*Lepus timidus*°	Galli-Valerio 1940, Hörning 1963	BE, VS, VD/1961-3, 1967
	Sciuridae	*Marmota marmota*		VS/1964
Neoctenotaenia Tenora, 1976				
N. ctenoides (Railliet, 1890) - (*Cittotaenia ctenoides*)				
	Leporidae	*Oryctolagus cuniculus*		BE/1976
Oochoristica Lühe, 1898				
O. rotundata (Molin, 1859)				
	Lacertidae	*Lacerta viridis*		TI
Paranoplocephala Lühe, 1910	*P. omphalodes* (Hermann, 1783) – (*Andrya caucasica*)			
	Cricetidae	*Arvicola amphibius*	Baer 1932, Wahl 1967	FR, GE, JU, NE/1962-4, 1969, 1976
	Cricetidae	*Chionomys nivalis*		VS/1994
	Cricetidae	*Microtus agrestis*	Hörning 1963	VD, VS/1961-3
	Cricetidae	*Microtus arvalis*	Baer 1932, Hörning 1963	GE, VD/1961-3, 1994
	Cricetidae	*Microtus multiplex*		TI/1971
	Cricetidae	*Myodes glareolus*	Hörning 1963, Wahl 1967	BE, GE, NE, VS/1951, 1961-4, 1968, 1972, 1985
	Muridae	*Apodemus* sp.		GE
Thysaniezia Skrjabin, 1926				
T. giardi (Moniez, 1879) - (*Helicometra giardi*)				
	Bovidae	*Ovis aries*		GE

Thysanosoma Diesing, 1835			
T. actinioides Diesing, 1835			
Bovidae	*Bos taurus*		GE
Catenotaeniidae Spasskii, 1950			
Catenotaenia Janicki, 1904			
*C. dendritica** (Goeze, 1782)			
Sciuridae	*Sciurus vulgaris*°	Hörning 1963	BA, FR, VD, VS/1961-3
C. henttoneni Haukisalmi & Tenora, 1993 - (*Catenotaenia pusilla*)			
Cricetidae	*Myodes glareolus*		JU, NE/1965-7, 1984-5
C. pusilla (Goeze, 1782) - (*Catenotaenia pusillum*)			
Cricetidae	*Myodes glareolus*	Baer 1928, Vaucher & Hunkeler 1967	BE, NE, VS
Muridae	*Apodemus sylvaticus*	Hörning 1963	NE, VS/1961-3, 1966
Muridae	*Mus musculus*	Baer 1928	NE, VS, VD
Muridae	*Rattus rattus*	Gaschen 1950	VD
Spasskijela Tenora, 1959, 1946			
S. kratochvili (Baer, 1925) - (*Catenotaenia lobata, Skrjabinotaenia lobata*)			
Cricetidae	*Microtus arvalis*	Hörning 1963	VD/1961-3
Cricetidae	*Myodes glareolus*	Hörning 1963, Wahl 1967	GE, VS/1961-4
Muridae	*Apodemus flavicollis*	Wahl 1967	GE, VD/1962-4, 1966
Muridae	*Apodemus sylvaticus*	Vaucher & Hunkeler 1967, Wahl 1967	BE, GE, NE, VD/1962-4, 1966, 1972
Davaineidae Braun, 1900			
Davainea Blanchard, 1891			
D. andrei Fuhrmann, 1933 - (*Raillietina andrei*)			
Phasianidae	*Perdix perdix* [2]		GE/1933
*D. proglottina** (Davaine, 1860) - (*Raillietina proglottina*)			
Phasianidae	*Gallus gallus*°	Fuhrmann 1919	BA, VS
*D. tetraoensis** Fuhrmann, 1919			
Phasianidae	*Tetrao urogallus*°	Fuhrmann 1919	FR, VD/1915
Fernandezia Lopez-Neyra, 1936			
F. spinosissima (von Linstow, 1894) - (*Raillietina spinosissima*)			
Turdidae	*Turdus merula*	Galli-Valerio 1940, Gigon & Beuret 1991	JU, NE, VD, VS/1969, 1896
Idiogenes Krabbe, 1868			
*I. flagellum** (Goeze, 1782) - (*Idiogenes mastigophora*)			
Accipitridae	*Milvus migrans*°	Fuhrmann 1926	BA
Paroniella Fuhrmann, 1920			
*P. urogalli** (Modeer, 1790) - [*Davainea urogalli, Raillietina* (*P.*) *urogalli*]			
Phasianidae	*Lyrurus tetrix*°	Fuhrmann 1919	BA
Phasianidae	*Tetrao urogallus*°	Fuhrmann 1919	BA
Raillietina Fuhrmann, 1920			
*R. anatina** Fuhrmann, 1909) - (*Davainea anatina, Raillietina crassula*)			
Anatidae	Anas platyrhynchos°	Fuhrmann 1926	BA
*R. echinobothrida** (Megnin, 1880) - (*Davainea bothrioplitis*)			
Phasianidae	*Gallus gallus*°	Fuhrmann 1926	VD
R. frontina (Dujardin, 1845) - [*Raillietina* (*R.*) *frontina*]			
Picidae	*Picus viridis*	Baer 1932	GE
*R. tetragona** (Molin, 1858) - [*Davainea tetragona, Raillietina* (*R.*) *tetragona*]			
Phasianidae	*Gallus gallus*°	Galli-Valerio 1901, 1924	BA, VD, ZH
Skrjabinia Fuhrmann, 1920			
*S. bonini** (Megnin, 1899) - [*Davainea columbae, Raillietina* (*S.*) *bonini, Raillietina columbae*] [3]			
Columbidae	*Columba livia*		NE/1936
Columbidae	*Columba palumbus*°	Fuhrmann 1926	SG/1999
S. cesticillus (Molin, 1858) - [*Raillietina* (*S.*) *cesticillus*]			
Phasianidae	*Gallus gallus*		BA
Dilepididae Fuhrmann, 1907			
Anomotaenia Cohn, 1900			
A. brevis (Clerc, 1902)			
Picidae	*Dendrocopos major*		NE/1974

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

Soricidae	*Neomys fodiens*	Vaucher & Hunkeler 1967	VD/1966
Soricidae	*Sorex alpinus*		GR, VS, VD/1966, 1971, 1972
Soricidae	*Sorex araneus*	Baer 1932, Vaucher & Hunkeler 1967, Wahl 1967	CH/1931,1964-1974, 1984, 1994, 1996
Soricidae	*Sorex minutus*	Vaucher & Hunkeler 1967, Vaucher 1971	VD, VS/1984
Monopylidium Fuhrmann, 1899			
M. albani (Mettrick, 1958) - (*Polycercus albani*)			
Sturnidae	*Sturnus vulgaris*	Gigon & Beuret 1991, Komisarovas *et al.* 2007	JU/1986
*M. crateriformis** (Goeze, 1782) - (*Choanotaenia crateriformis*)			
Picidae	*Dendrocopos major*°	Fuhrmann 1926	BA, FR, NE/1954
Picidae	*Jynx torquilla*	Galli-Valerio 1940	
Picidae	*Picus viridis*°	Fuhrmann 1926	GE, NE
M. galbulae (Gmelin, 1790)			
Oriolidae	*Oriolus oriolus*		NE/1944
*M. musculosa** (Fuhrmann, 1896) - (*Monopylidium musculosum*)			
Passeridae	*Passer domesticus*		BA/1947
Sturnidae	*Sturnus vulgaris*°	Fuhrmann 1926	BA, JU/1986
Sylviidae	*Sylvia borin*	Gigon 1988	JU/1986
Multitesticulata Meggitt, 1927			
*M. filamentosa** (Goeze, 1782) - (*Choanotaenia filamentosa, Monopylidium filamentosum, Taenia blanchardi*) [4]			
Talpidae	*Talpa europaea*°	Baer 1932, Hörning 1963, Vaucher & Hunkeler 1967	BE, GE, GR, JU, NE, VD, VS/1961-7, 1971, 1976
Neoliga Singh, 1952			
*N. depressa** (von Siebold, 1836) - (*Anomotaenia depressa*)			
Apodidae	*Apus apus*°		BA, GE, NE/1926, 1932
Apodidae	*Tachymarptis melba*		BE/1969
Paricterotaenia Fuhrmann, 1932			
P. parina (Rudolphi, 1802)			
Paridae	*Parus major*	Hörning 1963	NE, VD/1961-3, 1984
P. megacantha (Rudolphi, 1810) - (*Choanotaenia megacantha*)			
Caprimulgidae	*Caprimulgus europaeus*	Galli-Valerio 1940	VS
*P. porosa** (Rudolphi, 1810) - (*Choanotaenia porosa, Icterotaenia porosa*)			
Laridae	*Chroicocephalus ridibundus*°	Hörning 1963	BE, FR, GE, NE, VD, VS/1961-3, 1984
Platyscolex Spasskaya, 1962			
P. ciliata (Fuhrmann, 1913) - (*Anomotaenia ciliata, Unciunia ciliata*)			
Anatidae	*Anas platyrhynchos*	Szelenbaum-Cielecka *et al.* 1988	N/1981-5
Pseudangularia Burt, 1938			
Pseudoangularia. sp.			
Apodidae	*Apus apus*		GE/1932
Sacciuterina Matevosyan, 1963			
*S. paradoxa** (Rudolphi, 1802) - (*Icterotaenia paradoxa*)			
Charadriidae	*Vanellus vanellus*°	Fuhrmann 1926	NE
Scolopacidae	*Scolopax rusticola*°	Fuhrmann 1926	NE
Sobolevitaenia Spasskaya & Makarenko, 1965			
S. spinosocapite (Joyeux & Baer, 1955) - (*Choanotaenia spinosocapitae*)			
Sturnidae	*Sturnus vulgaris*		JU, NE/1959, 1986
Turdidae	*Turdus merula*	Beuret 1988	JU/1985
Turdidae	*Turdus philomelos*		NE/1965
S. verulamii (Mettrick, 1958) - (*Spiniglans constricta, Anomotaenia constricta*)			
Glomeridae	*Glomeris* sp.	L	NE
Turdidae	*Turdus merula*		NE/1973
Spasspasskya Bona, 1994			
S. passerum (Joyeux & Timon-David, 1934) - (*Anomotaenia passerum*)			
Turdidae	*Turdus merula*		NE/1966, 1974
Turdidae	*Turdus* sp.		GE/1959
Spiniglans Yamaguti, 1959			
S. affinis (Krabbe, 1869) - (*Spiniglans constricta*)			
Corvidae	*Corvus frugileus*		JU/1986
*S. constricta** (Molin, 1858) - (*Anomotaenia constricta*)			

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

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

Dollfusilepis Vasileva, Georgiev & Genov, 1998				
D. hoploporus (Dollfus, 1951) - (*Hymenolepis capillaris*)				
Podicipedidae	*Podiceps cristatus*		Joyeux & Baer 1950, Vasileva *et al.* 1998	NE
Dubininolepis Spasskii & Spasskaja, 1954				
*D. rostellata** (Albidgaard, 1790) - (*Armadoskrjabinia rostellata, Hymenolepis rostellata, Taenia capitellata*)				
Gaviidae	*Gavia arctica*°		Fuhrmann 1926	GE, N
Gaviidae	*Gavia immer*			NE
Gaviidae	*Gavia stellata*			GE, NE
Podicipedidae	*Podiceps* sp.			GE
Echinocotyle Blanchard, 1891				
*E. anatina** (Krabbe, 1869) - (*Cysticercus hymenolepidis anatina, Dicranotaenia anatina, Drepanidotaenia anatina, Hymenolepis anatina, Hymenolepis annatina*)				
Anatidae	*Anas platyrhynchos*°		Hörning 1963	NE, VD/1961-3
Anatidae	*Cygnus olor*°		Hörning 1963	BA, GE, VD/1961-3
Cyprididae	*Cypris* sp.°	L	Fuhrmann 1926	GE
E. rosseteri Blanchard, 1891				
Cyprididae	*Cypridopsis vidua*	L	Szelenbaum-Cielecka *et al.* 1988	M, N/1985
E. ryjikovi Tolkatcheva, 1969				
Cyclopidae	*Eucyclops serratulus*	L	Szelenbaum-Cielecka *et al.* 1988	M, N/1985
Cyclopidae	*Macrocyclops abidus*	L	Szelenbaum-Cielecka *et al.* 1988	M, N/1985
Echinolepis Spasskii & Spasskaja, 1954				
*E. carioca** (Magalhães, 1898) - (*Hymenolepis carioca, Hymenolepis exilis*)				
Phasianidae	*Gallus gallus*°			BA, GE, VD
Fimbriaria Fröhlich, 1802				
*F. fasciolaris** (Pallas, 1781)				
Anatidae	*Anas platyrhynchos*°		Szelenbaum-Cielecka *et al.* 1988	BA, NE, N/1985
Anatidae	*Aythya fuligula*°			GE, NE/1972
Anatidae	*Aythya marila*°			GE, NE
Anatidae	*Cygnus olor*		Hörning 1963	GE/1961-3
Anatidae	*Mergus merganser*		Fuhrmann 1926	NE/1974
Anatidae	*Netta rufina*°		Fuhrmann 1926	GE
Cyclopidae	*Macrocyclops abidus*	L	Szelenbaum-Cielecka *et al.* 1988	M, N/1985
Cyprididae	*Cypridopsis vidua*	L	Szelenbaum-Cielecka *et al.* 1988	M, N/1985
Gulyaevilepis Kornienko & Binkiene, 2014				
G. tripartita (Zarnowski, 1955) – (*Ditestolepis tripartita*)				
Soricidae	*Sorex alpinus*		Vaucher & Hunkeler 1967, Vaucher 1971	VS/1966
Soricidae	*Sorex araneus*		Vaucher & Hunkeler 1967, Vaucher 1971	GR, VS/1966, 1971, 1996
Hispaniolepis Lopez-Neyra, 1942				
*H. villosa** (Bloch, 1782) - (*Hymenolepis villosa*)				
Otididae	*Otis tarda*°			BA [6,7]
Hymenolepis Weinland, 1858				
H. armata (Fuhrmann, 1906)				
Anatidae	*Aythya fuligula*			NE, L
H. capillaroides Fuhrmann, 1906				
Podicipedidae	*Podiceps cristatus*			NE
*H. diminuta** (Rudolphi, 1819)				
Muridae	*Apodemus flavicollis* [8]			FR/1969
Muridae	*Apodemus sylvaticus* [8]			NE
Muridae	*Mus musculus*		Gaschen 1950	VD
Muridae	*Rattus norvegicus*°		Galli-Valerio 1901	GE, TI, VD/1970
Muridae	*Rattus rattus*°		Baer 1928, Galli-Valerio 1940	GE, NE, VD
H. exilis Dujardin, 1845				
Phasianidae	*Gallus gallus*		Gaschen 1950	VD
H. hibernia Montgomery, Montgomery & Dunn, 1986 - (*Rodentolepis microstoma*)				
Muridae	*Apodemus sylvaticus*			GE/1963, 1964
*H. linea** (Goeze, 1782)				
Phasianidae	*Alectoris graeca*°		Fuhrmann 1926	VS, TI
Phasianidae	*Perdix perdix*°		Hörning 1963	BA, NE, VD, VS/1961-3

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

M. spiralibursata (Czaplinski, 1956)				
	Anatidae	*Anas platyrhynchos*	Szelenbaum-Cielecka *et al.* 1988	N/1981-5
	Cyclopidae	*Macrocyclops albidus*	L Szelenbaum-Cielecka *et al.* 1988	M, N/1985
Milina van Beneden, 1873				
M. grisea van Beneden, 1873 - (*Hymenolepis grisea*)				
	Vespertilionidae	*Myotis myotis*	Vaucher & Hunkeler 1967	NE/1966
Monorcholepis Oshmarin, 1961				
*M. dujardini** (Krabbe, 1869) - (*Aploparaksis dujardini, Taenia dujardini*)				
	Sturnidae	*Sturnus vulgaris*°	Fuhrmann 1926	BA
	Turdidae	*Turdus merula*		NE/1968
Neomylepis Tkach, 1998				
N. magnirostellata (Baer, 1931) - (*Hymenolepis magnirostella, Staphylocystis magnirostellata*)				
	Soricidae	*Neomys fodiens*	Baer 1931, Vaucher & Hunkeler 1967	VD, NE, VS/1931, 1968, 1973
Neoskrjabinolepis Spasskii, 1947				
N. merkushevae Kornienko & Binkenie, 2008 - (*Hymenolepis schaldybini, Neoskrjabinolepis schaldybini*)				
	Soricidae	*Sorex alpinus*	Vaucher 1971	VD, VS/1966, 1972
	Soricidae	*Sorex araneus*	Vaucher 1971	GR, NE, TI, VD, VS/1964-8, 1971, 1984, 1993
	Soricidae	*Sorex minutus*	Vaucher 1971	GR, VD, VS/1966, 1968, 1971
N. schaldybini Spasskii, 1947 - (*Hymenolepis schaldybini, Neoskrjabinolepis singularis*)				
	Soricidae	*Sorex alpinus*	Vaucher 1971	
	Soricidae	*Sorex araneus*	Vaucher 1971	CH/1930, 1959, 1964-1972-4, 1993, 1996
	Soricidae	*Sorex minutus*	Vaucher 1971	GR, NE. VD/1960, 1965, 1968, 1971-2, 1984, 2001
N. singularis (Cholodkovsky, 1912) - (*Hymenolepis singularis*)				
	Cricetidae	*Myodes glareolus* [10]		GR/1971
	Soricidae	*Sorex araneus*	Baer 1932, Vaucher 1971	BE, GR, NE, VD, VS/1965-9, 1971-2
Parabissacanthes Maksimova, 1963				
P. bisacculina (Szpotanska, 1931) - (*Hymenolepis bissaculina*)				
	Anatidae	*Cygnus olor*	Joyeux & Baer 1950	N
P. kazachstanica Maksimova, 1963 - (*Monosaccanthes kazachstanica*)				
	Anatidae	*Cygnus olor*	Szelenbaum-Cielecka *et al.* 1988	N/1981-5
	Cyclopidae	*Acanthocyclops viridis*	L Szelenbaum-Cielecka *et al.* 1988	M, N/1985
P. philactes (Schiller, 1951)				
	Anatidae	*Cygnus olor*	Szelenbaum-Cielecka *et al.* 1988	NE, N/1981, 1985
	Cyclopidae	*Eucyclops serratulus*	L Szelenbaum-Cielecka *et al.* 1988	M, N/1985
Pararodentolepis Makarikov & Gulyaev, 2009				
*P. fraterna** (Stiles, 1906) - (*Hymenolepis fraterna, Hymenolepis murina, Rodentolepis fraterna*)				
	Muridae	*Apodemus flavicollis*	Baer & Tenora 1970	
	Muridae	*Apodemus sylvaticus*		NE, VS
	Muridae	*Mus musculus*	Galli-Valerio 1940	NE, VD
	Muridae	*Rattus rattus*°	L Baer 1928	BE, VD, VS
Passerilepis Spasskii & Spasskaya, 1954				
P. brevis (Fuhrmann, 1906) - (*Microsomacanthus brevis*)				
	Sylviidae	*Sylvia atricapilla*	Gigon & Beuret 1991	JU/1986
*P. crenata** (Goeze, 1782) - (*Hymenolepis serpentulus, Microsomacanthus crenata, Taenia serpentulus*)				
	Corvidae	*Corvus corone*°	Galli-Valerio 1940, Hörning 1963	BA, FR, NE, TG, VD, VS/1961-3
	Corvidae	*Garrulus glandarius*	Galli-Valerio 1924, Hörning 1963	NE, VD, VS/1961-3, 1972
	Corvidae	*Nucifraga caryocatactes*	Galli-Valerio 1940, Hörning 1963	GE, VD, VS/1961-3
	Corvidae	*Pica pica*	Hörning 1963	VD, VS/1961-3
	Picidae	*Dendrocopos major*		GE, JU, NE/1973, 1986, 2001
	Sturnidae	*Sturnus vulgaris*	Gigon 1988	JU, NE/1986-7
	Turdidae	*Turdus merula*		BA, JU, NE/1966, 1985-6
	Turdidae	*Turdus philomelos*		JU, NE/1965, 1986
	Turdidae	*Turdus pilaris*		JU/1986
	Turdidae	*Turdus viscivorus*	Gaschen 1950	VD, VS
*P. passeris** (Gmelin, 1790) - (*Hymenolepis fringillarum, Microsomacanthus passeris*)				
	Fringillidae	*Fringilla coelebs*	Gaschen 1950	VS
	Muscicapidae	*Phoenicurus ochruros*	Gigon 1988	NE/1987

Passeridae	*Passer domesticus*°		Galli-Valerio 1940	BA, GE, NE, VD/1970, 1985
Sylviidae	*Sylvia atricapilla*		Beuret 1988	JU, NE/1986-7
Sylviidae	*Sylvia borin*		Gigon 1988	JU/1986
*P. stylosa** (Rudolphi, 1809) - (*Hymenolepis stylosa, Microsomacanthus stylosa, Taenia stylosa*)				
Corvidae	*Garrulus glandarius*°			BA, GE, LU/1959
Corvidae	*Pica pica*			NE
Pseudhymenolepis Joyeux & Baer, 1935				
P. redonica Joyeux & Baer, 1935				
Soricidae	*Crocidura russula*		Vaucher & Hunkeler 1967	GE, NE, VD/1964-6, 1968, 1983
Rodentolepis Spasskii, 1954 (*s. lato*)				
R. asymmetrica (Janicki, 1904) - (*Hymenolepis arvicolae, Hymenolepis asymetrica, Hymenolepis asymmetrica, Arostrilepis horrida*)				
Cricetidae	*Chionomys nivalis*		Baer 1932	TI, VD, VS/1968, 1994, 1997
Cricetidae	*Microtus agrestis*		Vaucher & Hunkeler 1967	NE, VD/1966-7, 1993-4
Cricetidae	*Microtus arvalis*		Baer 1932, Hörning 1963	VD, VS/1933, 1961-3, 1968, 1993
Cricetidae	*Microtus subterraneus*			TI, UR, VD, VS/1968, 1971, 1973, 1994
Cricetidae	*Myodes glareolus*		Baer & Tenora 1970	GE, GR, JU, NE/19765, 1967, 1971
Cricetidae	*Microtus* (*Pitymys*) sp.			GR, VD/1971, 1973
R. erinacei (Gmelin, 1790) - (*Hymenolepis erinacei*)				
Erinaceidae	*Erinaceus europaeus*		Hörning 1963	GE, VD/1961-3
R. microstoma (Dujardin, 1845) - (*Hymenolepis microstoma*)				
Carabidae	*Anchomenus dorsalis*	L	Vaucher & Hunkeler 1967	NE /1965 [13]
Leptopsyllidae	*Leptopsylla segnis*	L		NE
Muridae	*Apodemus* sp.			NE/1966
Muridae	*Apodemus flavicollis*		Vaucher & Hunkeler 1967, Wahl 1967	BE, GE, NE, VD/1962
Muridae	*Apodemus sylvaticus*		Vaucher & Hunkeler 1967, Wahl 1967	BE, GE, NE, VD/1962-4, 1966
Muridae	*Mus musculus*		Hörning 1963	VD/1961-3
R. straminea (Goeze, 1782) - (*Hymenolepis straminea*)				
Cricetidae	*Myodes glareolus*			VD/1966
Muridae	*Apodemus flavicollis*			JU, NE/1965-8
Muridae	*Apodemus sylvaticus*			NE, VD/1965, 1994, 2001
Skrjabinacanthus Spasskii & Morozov, 1959				
S. jacutensis Spasskii & Morosov, 1958				
Soricidae	*Sorex minutus*		Vaucher 1971	VS/1966
Sobolevicanthus Spasskii & Spasskaja, 1954				
S. fragilis (Krabbe, 1869) - (*Hymenolepis fragilis*)				
Anatidae	*Anas crecca*			NE
*S. gracilis** (Zeder, 1803) - (*Hymenolepis gracilis*)				
Anatidae	*Anas platyrhynchos*°		Szelenbaum-Cielecka *et al.* 1988	BA, NE, M, N/1981-5
Anatidae	*Aythya fuligula*°		Fuhrmann 1926	NE, L, N
Candonidae	*Candona* sp.	L	Szelenbaum-Cielecka *et al.* 1988	M, N/1985
Cyclopidae	*Paracyclops fimbriatus*	L	Szelenbaum-Cielecka *et al.* 1988	M, N/1985
Cyprididae	*Cypridopsis vidua*	L	Szelenbaum-Cielecka *et al.* 1988	M, N/1985
S. gracilissimus Czaplinski & Czaplinska, 1990				
Anatidae	*Anas platyrhynchos*			NE/1985
S. krabbella (Hughes, 1940)				
Anatidae	*Anas platyrhynchos*		Szelenbaum-Cielecka *et al.* 1988	N/1981-5
Soricinia Spasskii & Spasskaja, 1954				
S. globosa (Baer, 1931) – (*Hymenolepis globosa*)				
Soricidae	*Neomys fodiens*		Baer 1931	VS/1931, 1994
S. infirma (Zarnowski, 1955) - (*Hymenolepis infirma*)				
Soricidae	*Sorex alpinus*		Vaucher 1971	VD
Soricidae	*Sorex araneus*		Vaucher & Hunkeler 1967, Vaucher 1971	GR, NE, TI, VD, VS/1965-6, 1968-74, 1996
Soricidae	*Sorex minutus*		Vaucher 1971	VS/1966
Staphylocystis Spasskii & Oshmarin 1954				
S. acuta (Rudolphi, 1819) - (*Taenia obtusata*)				
Vespertilionidae	*Nyctalus noctula*		Galli-Valerio 1926	VD

S. alpestris Baer, 1931- (*Hymenolepis alpestris*)				
	Soricidae	*Neomys fodiens*	Baer 1931	VS/1932
*S. bacillaris** (Goeze, 1982) - (*Hymenolepis bacillaris*)				
	Talpidae	*Talpa europaea*°	Fuhrmann 1926, Gaschen 1950	FR, VD, VS
S. brusatae (Vaucher, 1971)				
	Soricidae	*Crocidura suaveolens*	Vaucher 1971	TI/1970, 1975
S. furcata (Stieda, 1862) - (*Hymenolepis furcata*)				
	Soricidae	*Crocidura russula*	Wahl 1967	GE/1963
	Soricidae	*Sorex araneus*	Baer 1932, Vaucher 1971	CH/1931, 1965-72, 1984,1993-4
	Soricidae	*Sorex minutus*	Vaucher & Hunkeler 1967, Vaucher 1971	NE, VD/1966
*S. pistillum** (Dujardin, 1845) - (*Hymenolepis pistillum*)				
	Glomeridae	*Glomeris marginata*	L	GE
	Soricidae	*Crocidura russula*	Wahl 1967, Vaucher 1971	BE, GE, NE, VD, VS/1943, 1962, 1964-9
	Soricidae	*Sorex alpinus*° [14]	Galli Valerio 1924	VD, VS
	Soricidae	*Sorex araneus* [14]	Galli Valerio 1912, Wahl 1967	GE, VD, VS/1912, 1963
S. scalaris (Dujardin, 1845) - (*Hymenolepis dodecacantha, H. scalaris, Taenia scalaris*)				
	Soricidae	*Crocidura russula*	Vaucher & Hunkeler 1967, Vaucher 1971	BE, GE, JU, NE, VD/1964-6, 1968-9
	Soricidae	*Sorex araneus* [14]	Baer 1932	GE
	Soricidae	*Sorex minutus* [14]	Wahl 1967	GE/1963
S. tiara (Dujardin, 1845) - (*Hymenolepis tiara*)				
	Soricidae	*Crocidura russula*	Vaucher & Hunkeler 1967	BE, NE, VD/1943, 1964, 1966-9
	Soricidae	*Crocidura* sp.	Vaucher & Hunkeler 1967	TI/1969
	Soricidae	*Crocidura suaveolens*		TI/1965, 1970
	Soricidae	*Sorex araneus*	Baer 1928	VS
S. toxometra Baer, 1932 – (*Hymenolepis toxometra*)				
	Soricidae	*Sorex araneus*	Baer 1932	VS/1931
S. uncinata (Stieda, 1862) - (*Hymenolepis uncinata, Hymenolepis uncinate*)				
	Soricidae	*Crocidura leucodon*	Vaucher & Hunkeler 1967, Vaucher 1971	VS/1964
	Soricidae	*Crocidura suaveolens*		TI/1970
Staphylocystoides Yamaguti, 1952				
S. stefanskii (Zarnowski, 1954) - (*Hymenolepis stefanskii*)				
	Soricidae	*Sorex araneus*	Vaucher & Hunkeler 1967, Vaucher 1971	BE, GR, JU, NE, TI, VD, VS/1965-72
	Soricidae	*Sorex minutus*	Wahl 1967, Vaucher 1971	GE, GR, NE, VS/1960, 1963, 1971 1984
Triodontolepis Yamaguti, 1959				
T. bifurca (Hamann, 1891) - (*Hymenolepis bifurca*)				
	Gammaridae	*Gammarus pulex*	L	Vaucher & Hunkeler 1967	NE/1966
	Soricidae	*Neomys fodiens*		GE, NE/1968
T. hamanni (Mrazek, 1891) - (*Cysticercus hamanni, Hymenolepis hamanni, H. neomidis, Vampirolepis neomidis*)				
	Soricidae	*Neomys anomalus*	Hörning 1963	VS/1961-3
	Soricidae	*Neomys fodiens*	Baer 1931, Baer & Joyeux 1943, Hörning 1963, Vaucher 1971	GE, NE, VS/1931, 1961-4, 1968
Tschertkovilepis Spasskii & Spasskaja 1954				
*T. tenuirostris** (Rudolphi, 1819) - (*Anatinella tenuirostris, Hymenolepis tenuirostris, Taenia tenuirostris*)				
	Anatidae	*Mergus merganser*°	Fuhrmann 1926	BA
Urocystis Villot, 1880				
U. prolifer Villot, 1880 - (*Hymenolepis prolifer, Neoskrabynolepis singularis*)				
	Cricetidae	*Myodes glareolus* [10]		GR/1971
	Soricidae	*Sorex alpinus*		GR, VD/1971-2
	Soricidae	*Sorex araneus*	Vaucher & Hunkeler 1967, Vaucher 1971	CH/1965-6, 1968-74, 1994
	Soricidae	*Sorex minutus*	Vaucher & Hunkeler 1967, Vaucher 1971	NE, VD, VS/1965-6, 1968
Vampirolepis Spasskii & Oshmarin 1954				
V. baeri Murai, 1976				
	Vespertilionidae	*Nyctalus noctula*	Murai 1976	BE, VD/1967, 1986
V. balsaci (Joyeux & Baer, 1934) – (*Hymenolepis balsaci*)				
	Vespertilionidae	*Myotis mystacinus*	Aellen 1949, Vaucher & Hunkeler 1967	BE, VD, VS/1950, 1959
	Vespertilionidae	*Plecotus auritus*		VD, VS/ 1967

Vigisolepis Mathevossian, 1945				
V. spinulosa (Cholodkovsky, 1906) - (*Hymenolepis spinulosa*)				
	Cricetidae	*Myodes glareolus* [10]		GR/1971
	Soricidae	*Sorex alpinus*	Vaucher & Hunkeler 1967, Vaucher 1971	VD, VS/1966, 1972
	Soricidae	*Sorex araneus*	Baer 1932, Vaucher & Hunkeler 1967, Vaucher 1971	BE, GR, JU, NE, VD, VS/1965-1974, 1994
	Soricidae	*Sorex minutus*	Vaucher & Hunkeler 1967, Vaucher 1971	NE
Wardium Mayhew, 1925				
*W. farciminosa** (Goeze, 1782) - (*Hymenolepis farciminosa, Variolepis farciminosa*)				
	Corvidae	*Garrulus glandarius*°		BA, NE/1967
*W. recurvirostrae** (Krabbe, 1869) - (*Hymenolepis recurvirostrae, Taenia recurvirostrae*)				
	Recurvirostridae	*Recurvirostra avosetta*°	Fuhrmann 1926	BA, GE [7]
Wardoides Spasskii, 1963				
W. nyrocae cygni (Yamaguti, 1935)				
	Anatidae	*Cygnus olor*	Szelenbaum-Cielecka *et al.* 1988	N/1981-5
Mesocestoididae Perrier, 1897				
Mesocestoides Vaillant, 1863				
*M. lineatus** (Goeze, 1782) - (*Taenia litterata*)				
	Canidae	*Canis familiaris*		VD/1941
	Canidae	*Vulpes vulpes*°	Hörning 1963	GR, NE, VD, VS/1961-3, 1972
	Cricetidae	*Myodes glareolus*	L	GR/1971
M. litteratus (Batsch, 1786)				
	Canidae	*Vulpes vulpes*	Bouvier 1947	BA, VD
M. perlatus (Goeze, 1782)				
	Accipitridae	*Circaetus gallicus*°	Hörning 1963	BE, VS/1961-3
Mesocestoides sp.				
	Muridae	*Apodemus flavicollis*	L	GR/2009
Nematotaeniidae Lühe, 1910				
Nematotaenia Lühe, 1899				
*N. dispar** (Goeze, 1782) - (*Cylindrotaenia dispar, Taenia dispar*)				
	Bufonidae	*Bufo bufo*°	André 1912	BA, GE, NE, TI/1910
	Ranidae	*Pelophylax lessonae*°	Fuhrmann 1926	BA
	Salamandridae	*Salamandra atra*°		VD
Paruterinidae Fuhrmann, 1907				
Anonchotaenia Cohn 1900				
A. globata (von Linstow, 1879)				
	Paridae	*Parus major*		BA/1947
	Passerellidae	*Zonotrichia* sp.		BA
	Sylviidae	*Sylvia atricapilla*	Beuret 1988	JU/1986
Cladotaenia Cohn, 1901				
*C. cylindracea** (Bloch, 1782) - (*Cysticercus cladotaeniae-cylindraceae*)				
	Accipitridae	*Accipiter gentilis*	Galli-Valerio 1940, Hörning 1963	VD/1961-3
	Accipitridae	*Buto buteo*°	Fuhrmann 1926, Hörning 1963	BA, LU, SG, VD, VS, ZG/1961-3, 1974
	Accipitridae	*Milvus migrans*	Hörning 1963	VS/1961-3
	Cricetidae	*Arvicola amphibius*	L Hörning 1963	VD, VS/1961-3
	Cricetidae	*Microtus agrestis*	L Hörning 1963	VD/1961-3
	Cricetidae	*Microtus arvalis*	L Hörning 1963	VD/1961-3
	Cricetidae	*Myodes glareolus*	L Hörning 1963	NE, VD, VS/1961-3
	Falconidae	*Falco tinnunculus*	Hörning 1963	NE/1961-3
	Muridae	*Apodemus sylvaticus*	L Baer 1931, 1932, Hörning 1963	GE, VS/1961-3
C. globifera (Batsch, 1786)				
	Accipitridae	*Accipiter gentilis*	Galli-Valerio 1940	VD, VS
	Accipitridae	*Buteo buteo*	Gaschen 1950, Gigon & Beuret 1991	BA, BE, JU, VS/1986
Neyraia Joyeux & Timon-David, 1934				
N. intricata (Krabbe, 1878)				
	Upupidae	*Upupa epops*		VD

Notopentorchis Burt, 1938				
Notopentorchis sp.				
Apodidae	*Apus apus*			NE/1926
Orthoskrjabinia Spasskii, 1947				
O. bobica (Clerc, 1903) - (*Anonchotaenia bobica*)				
Fringillidae	*Fringilla coelebs*		Gigon 1988	JU/1986
Fringillidae	*Pyrrhula pyrrhula*			NE/1964
O. conica (Fuhrmann, 1908)				
Picidae	*Dendrocopos major*		Gigon 1988	JU/1986
Fringillidae	*Fringilla montifringilla*		Beuret 1988	JU/1986
Paruterina Fuhrmann, 1906				
*P. vesiculigera** (Krabbe 1882)				
Apodidae	*Apus apus*°		Fuhrmann 1926	NE
Spasskiiterina Kornyushin, 1989				
S. trianguloides Kornyushin, 1989 - (*Biuterina cordifera*)				
Muscicapidae	*Erithacus rubecula*		Gigon & Beuret 1991	JU/1986
Taeniidae Ludwig, 1886				
Echinococcus Rudolphi, 1801				
*E. granulosus** (Batsch, 1786) (*s. lato*) - (*Echinococcus cysticus, Echinoccocus polymorphus*)				
Bovidae	*Bos taurus*°	L		GE, NE, TG, VS, ZH
Bovidae	*Ovis aries*°	L	Fuhrmann 1926	ZH
Bovidae	*Rupicapra rupicapra*	L	Salzmann & Horning 1974	BA, BE, SO/1970-2
Canidae	*Canis familiaris*°		Fuhrmann 1926	BA, ZH
Canidae	*Vulpes vulpes*		Bouvier *et al.* 1957	TG/1955-6
Cricetidae	*Microtus* sp.	L		VD
Hominidae	*Homo sapiens*°	L	Galli-Valerio 1917, Fuhrmann 1926	CH/1915
Leporidae	*Lepus europaeus*	L	Chaignat *et al.* 2015	VD
Suidae	*Sus scrofa*°	L	Fuhrmann 1926	VD, NE, ZH
*E. multilocularis** Leuckart, 1863 - (*Echinococcus alveolaris*)				
Bovidae	*Bos taurus*°	L	Fuhrmann 1926	SG
Canidae	*Canis familiaris*	L	Deplazes *et al.* 1999, Eckert & Deplazes 2004	
Canidae	*Vulpes vulpes* [15]		Hörning 1963, Ewald & Eckert 1993, Kern 2003, Brossard *et al.* 2007	CH/1961-3 1971, 1990-2002
Castoridae	*Castor fiber*	L	Janovsky *et al.* 2002	AG/2000
Cricetidae	*Arvicola amphibius*	L	Hofer *et al.* 2000, Brossard *et al.*2007, Burlet *et al.* 2011	CH/2007-8
Cricetidae	*Microtus arvalis*	L	Brossard *et al.* 2007	FR, TI, ZH
Felidae	*Felis silvestris*		Gottstein *et al.* 2001	FR/1996
Hominidae	*Homo sapiens*°	L	Galli-Valerio 1901, Schweiger *et al.* 2007	CH
Muridae	*Mus musculus*	L	Hörning 1963	VS/1961-3
Hydatigera Lamarck, 1816				
*H. taeniaeformis** Batsch, 1786 (*s. lato*) - (*Cysticercus fasciolaris, C. taeniae-taeniaeformis, Strobilocercus fasciolaris, Taenia crassicolis, T. taeniaeformis*)				
Cricetidae	*Arvicola amphibius*	L	Hörning 1963, Burlet *et al.* 2011	CH/1961-3, 1967-79, 1993-1996, 2007-8
Cricetidae	*Chionomys nivalis*	L		VD/1994
Cricetidae	*Microtus agrestis*°	L	Hörning 1963	GE, VD, VS/1961-63, 1972, 1980
Cricetidae	*Microtus arvalis*°	L	Galli-Valerio 1901, Hörning 1963	VD/1961-3
Felidae	*Felis silvestris*° [16]		Galli-Valerio 1901, 1924	NE, VD, VS. ZH/1974
Muridae	*Apodemus flavicollis*	L	Vaucher & Hunkeler 1967	NE, ZH/1968, 1978
Muridae	*Apodemus* sp.	L		NE/1968
Muridae	*Apodemus sylvaticus*	L	Hörning 1963	NE, VS/1961-3, 1969
Muridae	*Mus musculus*°	L	Galli-Valerio 1901, Hörning 1963	VD, VS, ZH/1961-3
Muridae	*Rattus norvegicus*°	L	Fuhrmann 1926	SG, VD
Mustelidae	*Martes foina*		Gaschen 1950	VD, VS
Mustelidae	*Mustela erminea*°		Fuhrmann 1926	VD, VS
Talpidae	*Talpa europaea*°	L	Galli-Valerio 1901	VD
Strigidae	*Bubo bubo*	L	Gigon & Beuret 1991	JU/1987

Taenia Linnaeus, 1758				
T. angustata Rudolphi, 1819 (*sp. inquirenda*)				
Mustelidae	*Meles meles*		Bouvier *et al.* 1951	VD/1949-50
*T. crassiceps** (Zeder, 1800) - (*Cysticercus longicollis*)				
Canidae	*Canis familiaris*		Gaschen 1950	
Canidae	*Vulpes vulpes*°		Baer 1925a, Hörning 1963	AG, BA, GE, NE, SG, VD, VS/1947, 1955, 1960-3,1975-9
Cricetidae	*Arvicola amphibius*	L	Burlet *et al.* 2011	FR, SG, VD, VS, ZH/1968-9, 2007-8
Cricetidae	*Microtus agrestis*	L	Hörning 1963	VD/1961-3
Cricetidae	*Microtus arvalis*°	L	Galli-Valerio 1901, Vaucher & Hunkeler 1967	BE, VD, VS/1961-4, 1993
Cricetidae	*Microtus multiplex*	L	Vaucher & Hunkeler 1967	VS
Cricetidae	*Microtus subterraneus*	L		VS
Muridae	*Mus musculus*	L	Galli-Valerio 1940	VD
Muridae	*Rattus rattus*	L	Galli-Valerio 1940	VD
Sciuridae	*Marmota marmota*	L	Bouvier 1963, Hörning 1963, 1966	OW, UR/1961-3
*T. intermedia** Rudolphi 1810 (*sp. inquirenda*)				
Mustelidae	*Martes foina*°		Fuhrmann 1926	VD
Mustelidae	*Martes martes*		Galli-Valerio 1940	VD
Mustelidae	*Mustela erminea*		Gaschen 1950	VD
*T. hydatigena** Pallas, 1766 - (*Cysticercus tenuicollis, Cysticercus longicollis, Taenia marginata*)				
Bovidae	*Bos taurus*°	L	Fuhrmann 1926	NE, VD, ZH
Bovidae	*Capra ibex*	L	Bouvier & Hörning 1963	GR, VD, VS/1961-3
Bovidae	*Ovis aries*°	L	Fuhrmann 1926	VD, ZH
Bovidae	*Rupicapra rupicapr*a	L	Hörning 1963	CH/1961-3,1970-2
Canidae	*Canis familiaris*°		Fuhrmann 1926, Gaschen 1950	BE, NE, VD, ZH
Canidae	*Vulpes vulpes*		Hörning 1963	VD, VS/1961-3
Cervidae	*Capreolus capreolus*	L	Hörning 1963	BE, GR, OW, SG, VD, VS/1961-3
Cervidae	*Cervus elaphus*	L	Hörning 1963	GR/1961-3
Muridae	*Apodemus sylvaticus*°	L	Fuhrmann 1926 [17]	VS
Suidae	*Sus scrofa*°	L	Fuhrmann 1926	VD, ZH
T. krabbei Moniez, 1879 - (*Cysticercus cervi, Taenia cervi*)				
Cervidae	*Capreolus capreolu*s	L	Hörning 1963	SG/1961-3
T. martis (Zeder, 1803)				
Cricetidae	*Myodes glareolus*	L	Vaucher & Hunkeler 1967, Wahl 1967	FR, GE, JU, NE, VD/1961-9, 1984, 1994, 1998
Hominidae	*Homo sapiens*	L	Genbank Accession #: OQ536306	
Muridae	*Apodemus flavicollis*	L	Wahl 1967	FR, GE, NE/1962, 1966, 1969
Muridae	*Apodemus sylvaticus*	L	Vaucher & Hunkeler 1967, Wahl 1967	GE, NE/1962-4, 1966
Mustelidae	*Martes foina*			GE, VD, VS/1960-1, 1980-2, 1986
Mustelidae	*Meles meles*			VD/1972
*T. multiceps** (Leske, 1780) - (*Coenurus cerebralis, Multiceps cerebralis, Multiceps multiceps, Taenia coenurus*)				
Bovidae	*Bos taurus*°	L	Fuhrmann 1926	BE, GR, SG, ZH
Bovidae	*Ovis aries*°	L		BE, GE, ZH/1959
Canidae	*Canis familiaris*°		Fuhrmann 1926	ZH
Canidae	*Vulpes vulpes*		Hörning 1963	VD/1961-3
Cervidae	*Capreolus capreolus*	L	Bouvier *et al.* 1958, Hörning 1963	VD, VS/1954, 1961-3
Leporidae	*Oryctolagus cuniculus*	L	Gaschen 1950	VD
*T. pisiformis** (Bloch, 1780) - (*Cysticercus pisiformis, Taenia serrata*)				
Canidae	*Canis familiaris*°		Galli-Valerio 1917, 1921	BE, GE, VD, ZH
Canidae	*Vulpes vulpes*		Bouvier 1947, Hörning 1963	NE, SG, VD, VS/1961-3
Cricetidae	*Arvicola amphibius*	L		GE
Felidae	*Felis silvestris*°			GE
Leporidae	*Lepus europaeus* [18]	L	Galli-Valerio 1940, Hörning 1963	TI, VD/1961-3
Leporidae	*Oryctolagus cuniculus*°	L	Galli-Valerio 1898, 1917, 1940, André 1917	BE, GE NE VD, VS
Muridae	*Rattus rattus*°	L	Galli-Valerio 1911	VD
T. polyacantha Leuckart, 1856 - (*Cysticercus taeniae-polyacanthae, Hoplothyridium*)				
Canidae	*Vulpes vulpes*			GE, JU, NE, VD, VS, ZH/1955, 1961-3, 1967, 1970
Cricetidae	*Microtus arvalis*	L		VD/1967, 1999

Cricetidae	*Microtus multiplex*	L		VD/1973
Cricetidae	*Myodes glareolus*	L	Baer 1932, Hörning 1963	GR, VS/1931, 1961-3, 1971
Muridae	*Apodemus sylvaticus*	L	Hörning 1963	VD, VS/1961-3
Muridae	*Mus musculus*	L	Hörning 1963	VD/1961-3
Sciuridae	*Sciurus vulgaris*	L	Hörning 1963	NE, VD, VS/1961-3
*T. saginata** Goeze, 1782 - (*Cysticercus bovis, Taenia mediocanellata*)				
Bovidae	*Bos taurus*°	L	Fuhrmann 1926	BA, BE, VD ZH
Hominidae	*Homo sapiens*°		Galli-Valerio 1901, 1921	CH/1924, 1929, 1931
T. secunda Olsson, 1893 (*sp. inquirenda, sp. incerta sedis*)				
Bovidae	*Rupicapra rupicapra*	L	Gaschen 1950	VS/1961-3
Mustelidae	*Meles meles*		Bouvier *et al.* 1953	BA, VD/1952
T. serialis (Gervais, 1847) - (*Coenurus serialis*)				
Canidae	*Canis familiaris*		Gaschen 1950	VD
Leporidae	*Oryctolagus cuniculus*° [19]	L	Galli-Valerio 1909, André 1917	GE, VD/1908
*T. solium** Linnaeus, 1758 - (*Cysticercus cellulosae*)				
Hominidae	*Homo sapiens*° [20]	L	Galli-Valerio 1901, Fuhrmann 1926	CH
Suidae	*Sus scrofa*°	L	Fuhrmann 1926	CH
Taenia sp.				
Felidae	*Lynx lynx*		Schmidt-Posthaus *et al.* 2002	
Versteria Nakao *et al.*, 2013				
V. mustelae (Gmelin, 1790) - (*Cysticercus hypudaei, Cysticercus tenuicollis, Taenia mustelae, Taenia tenuicollis*)				
Bovidae	*Capra ibex* [21]	L	Galli-Valerio 1939	VD
Bovidae	*Ovis aries* [21]	L		GE
Cricetidae	*Microtus arvalis*	L	Hörning 1963	GE, VD, VS/1961-3
Cricetidae	*Myodes glareolus*	L	Vaucher & Hunkeler 1967	GE, NE, VD/1961, 1966, 1998
Muridae	*Apodemus sylvaticus*	L	Galli-Valerio 1917	VS/1915
Mustelidae	*Mustela erminea*		Wahl 1967	BE, VD, VS/1956
Mustelidae	*Mustela nivalis*			GE
Mustelidae	*Mustela putorius*		Wahl 1967	SH, VS/1960
Suidae	*Sus scrofa* [21]	L	Gaschen 1950	
Talpidae	*Talpa europaea*	L	Hörning 1963	VD/1961-3

DIPHYLLOBOTHRIIDEA

Diphyllobothriidae Lühe, 1910

Diphyllobothrium Cobbold, 1858

D. dendriticum (Nitzsch, 1824)				
Hominidae	*Homo sapiens*		Wicht *et al.* 2010	BE/2006
*D. latum** (Linnaeus, 1758) - (*Bothriocephalus latus, Dibothriocephalus latus*)				
Canidae	*Canis familiaris*°		Galli-Valerio 1904, 1940	GE, VD
Canidae	*Vulpes vulpes*°		Bouvier *et al.* 1963, Radacovska *et al.* 2022	GR, NE/2017-2018
Cyclopidae	*Cyclops strenuus*°	L	Janicki & Rosen 1917	NE
Cyclopidae	*Eucyclops serratulus*	L	Szelenbaum-Cielecka *et al.* 1988 [22]	M, N/1985
Diaptomidae	*Diaptomus gracilis*°	L	Janicki & Rosen 1917	NE
Felidae	*Felis silvestris*°		Galli-Valerio 1902, Bouvier *et al.* 1963, Zottler *et al.* 2019	VD, ZH
Esocidae	*Esox lucius*°	L	Baer 1925b, Bouvier *et al.* 1963, Golay & Mariaux 1995, Radacovska *et al.* 2019	BA, GE, NE, VD, A, B, L, M, N, V/1923-4, 1932
Hominidae	*Homo sapiens*°		Galli-Valerio 1901, Fuhrmann 1926, Bouvier *et al.* 1963, Wicht *et al.* 2010	CH/1962, 2002, 2004-8
Lotidae	*Lota lota*°	L	Galli-Valerio 1901, André 1917, Hörning 1963	NE, TI, VD, A, L, M, N, O/1961-3
Percidae	*Perca fluviatilis*°	L	Galli-Valerio 1901, Bouvier *et al.* 1963, Golay & Mariaux 1995, Wicht *et al.* 2009, Radacovska *et al.* 2019	BE, VD, A, B, L, M, N/1994-1995, 2017-2018
Salmonidae [23]	*Coregonus fera*°	L	Schor 1902, Zschokke 1933	L
Salmonidae [23]	*Salmo trutta*°	L	Baer 1925b, Bouvier *et al.* 1963, Králová-Hromadová *et al.* 2021	BA, NE, VS, N, O, T, V
Salmonidae [23]	*Salvelinus umbla*°	L	Galli-Valerio 1901, Bouvier *et al.* 1963	L
Salmonidae [23]	*Thymallus thymallus*°	L	Zschokke 1887, Bouvier *et al.* 1963	L, O
Ranidae	*Pelophylax lessonae*	L		NE

D. nihonkaiense Yamane *et al*., 1986				
Hominidae	*Homo sapiens*		Wicht *et al.* 2007 [24]	GE/2005-6
Ligula Bloch, 1782				
L. colymbi Zeder, 1803				
Gaviidae	*Gavia immer*		Hörning 1963	VD/1961-3
Podicipedidae	*Podiceps cristatus*		Hörning 1963	BE, VD/1961-3
L. digramma Creplin, 1839				
Leuciscidae	*Leuciscus leuciscus*	L		BA
*L. intestinalis** (Linnaeus, 1758) - (*Dibothrium ligula, Ligula simplicissima*)				
Accipitridae	*Gyps fulvus*		Galli-Valerio 1938	VS/1938
Anatidae	*Mergus merganser*°		Fuhrmann 1926	N
Cyprinidae	*Cyprinus carpio*°	L	Fuhrmann 1926	L, N
Gaviidae	*Gavia immer*			LU
Gobionidae	*Gobio gobio*°	L	Lunel 1879, Hörning 1963	BA, M, N, L/1934, 1961-3
Laridae	*Chroicocephalus ridibundus*°		Fuhrmann 1926	GE, NE, ZH, L, N
Laridae	*Rissa tridactyla*°		Fuhrmann 1926	L
Leuciscidae	*Abramis brama*°	L		BA, N/1983
Leuciscidae	*Alburnus alburnus*°	L	Lunel 1879	GE, L, O/1991
Leuciscidae	*Blicca bjoerkna*°	L		Z
Leuciscidae	*Chondrostoma nasus*°	L		BA, V
Leuciscidae	*Rutilus rutilus*°	L	Lunel 1879	L, M, O
Leuciscidae	*Scardinius erythrophthalmus*°	L	Lunel 1879	L
Leuciscidae	*Squalius cephalus*°	L	Lunel 1879	L, V, Z
Nemacheilidae	*Barbatula barbatula*°	L	Lunel 1879	L
Percidae	*Perca fluviatilis*°	L	Fuhrmann 1926, Galli-Valerio 1940	VD, L
Phoxinidae	*Phoxinus phoxinus*	L		L/1904
Podicipedidae	*Podiceps auritus*°		Fuhrmann 1926	L
Podicipedidae	*Podiceps cristatus*°		Fuhrmann 1926	BA, L, N
Podicipedidae	*Podiceps* sp.			NE, L
Salmonidae	*Coregonus fera*°	L	Galli-Valerio 1901, Zschokke 1933	L
Salmonidae	*Coregonus wartmanni*	L	Zschokke 1933	O,
Tincidae	*Tinca tinca*°	L	Lunel 1879	L
Schistocephalus Creplin, 1829				
*S. solidus** (Muller, 1776) - (*Schistocephalus gasterostei*)				
Ardeidae	*Botaurus stellaris*°		Fuhrmann 1926	BA
Gasterosteidae	*Gasterosteus aculeatus*	L		VS/1923
ONCOPROTEOCEPHALIDEA				
Proteocephalidae Mola, 1929				
Corallobothrium Fritsch, 1886				
C. parafimbriatum Befus & Freeman, 1973				
Ictaluridae	*Ameiurus melas*			GE/2002
Glanitaenia de Chambrier *et al.,* 2004				
G. osculata (Goeze, 1782) - (*Glanitaenia osculatus*)				
Siluridae	*Silurus glanis*°		Zandt 1924, de Chambrier & Scholz 2016	NE, O/2010
Ophiotaenia La Rue, 1911				
O. europaea Odening, 1963				
Colubridae	*Natrix tessellata*			TI
Proteocephalus Weinland, 1858 [25]				
*P. filicollis** (Rudolphi, 1802) - (*Ichthyotaenia filicollis*)				
Gasterosteidae	*Gasterosteus aculeatus*°			BA, VD/1960
Salmonidae	*Coregonus fera* [26]			BA
*P. longicollis** (Zeder, 1800) - (*Ichthyotaenia agonis, I. fallax, I. longicollis, I. neglecta, I. salmonisumblae, Proteocephalus agonis, P. exiguus, P. fallax, P. neglectus, P. salmonisumblae, Taenia longicollis*) [27, 28]				
Clupeidae	*Alosa agone*°		Pecorini 1959	A/1957-8
Colubridae	*Natrix natrix*			GE/1909
Cyclopidae	*Cyclops abyssorum*	L	Jarecka & Doby 1965	L
Cyclopidae	*Cyclops strenuus*	L	Pecorini 1959, Jarecka & Doby 1965	A, L/1957-8
Cyclopidae	*Mesocyclops leuckarti*	L	Pecorini 1959	A/1957-8

Diaptomidae	*Eudiaptomus vulgaris*	L	Pecorini 1959	A/1957-8
Diaptomidae	*Mixodiaptomus laciniatus*	L	Pecorini 1959	A/1957-8
Esocidae	*Esox lucius*°	L	Nufer 1905	L, V/1994
Leuciscidae	*Alburnus alburnus*°		Nufer 1905	O, V
Leuciscidae	*Squalius cephalus*		Nufer 1905	V
Percidae	*Perca fluviatilis*°		Nufer 1905	NE, L, O, V
Salmonidae	*Coregonus fera*°		Nufer 1905, André 1917, Zschokke 1933	L, O, V, GE/1909, 1995
Salmonidae	*Coregonus gutturosus*		Zschokke 1933	L, O, V
Salmonidae	*Coregonus hiemalis*		André 1917, Zschokke 1933	L
Salmonidae	*Coregonus lavaretus*		Pecorini 1959, Hanzelova *et al.* 1999	BE, GE, A, B, L/1957-8, 1990, 1994-7
Salmonidae	*Coregonus macrophtalmus*°		André 1917, Zschokke 1933, Nufer 1905	N, O, V
Salmonidae	*Coregonus wartmanni*°		Zschokke 1933, Nufer 1905	BE, O, V
Salmonidae	*Coregonus* sp.			NE, N
Salmonidae	*Oncorhynchus mykiss*			GR/1944
Salmonidae	*Salmo trutta*°		Lunel 1879, Hanzelova & Scholz 1992	BA, NE, L/1909, 1985
Salmonidae	*Salvelinus umbla*°		Lunel 1879, Zschokke 1884, Nufer 1905	L, V
Salmonidae	*Thymallus thymallus*°			BA, O
*P. macrocephalus** (Creplin, 1825) - (*Ichthyotaenia macrocephala*)				
Anguillidae	*Anguilla anguilla*°		Nufer 1905	O, V
*P. percae** (Müller, 1780) - (*Ichthyotaenia longicollis, I. ocellata, I. percae, Proteocephalus percae, P. dubius, P. ocellatus, Taenia percae*) [29]				
Esocidae	*Esox lucius*		Zschokke 1884	L, M/1994
Gasterosteidae	*Gasterosteus aculeatus*			BA
Lotidae	*Lota lota*°		Zschokke 1884	BE, GE, VD, L, O/1986, 1994
Percidae	*Perca fluviatilis*°		Zschokke 1884, Hörning 1963, Hanzelova *et al.* 1999	CH/<1911, 1961-3, 1986, 1990, 1994-6, 2007-9
Salmonidae	*Coregonus fera*°		Zschokke 1884, Nufer 1905, Zschokke 1933	L, N, O, V
Salmonidae	*Coregonus hiemalis*°		Zschokke 1933	L
Salmonidae	*Coregonus lavaretus*		Sublet 1987	
Salmonidae	*Coregonus macrophtalmus*		Nufer 1905, Zschokke 1933	N, V
Salmonidae	*Coregonus oxyrinchus*			NE/1916
Salmonidae	*Coregonus palaea*			NE
Salmonidae	*Coregonus wartmanni*°		Nufer 1905, Zschokke 1933	O, V
Salmonidae	*Salmo trutta*		Zschokke 1884	VD/1986-7
Salmonidae	*Salvelinus umbla*		Nufer 1905	V
*P. torulosus** (Batsch, 1786) [30] - (*Ichthyotaenia torulosus, Ichthyotaenia torulosa*)				
Gobionidae	*Gobio gobio*°		Nufer 1905	V
Leuciscidae	*Abramis brama*°		Fuhrmann 1926	O
Leuciscidae	*Alburnus alburnus*°		Nufer 1905, Hörning 1963	GE, NE, VD, L, O, V/1961-3, 1995
Leuciscidae	*Blicca bjoerkna*°		Nufer 1905	V
Leuciscidae	*Leuciscus leuciscus*°		Nufer 1905	BA, O, N, V
Lotidae	*Lota lota*°		Zandt 1924	O
Percidae	*Perca fluviatilis*°		Nufer 1905, Zandt 1924	O, V
Salmonidae	*Coregonus fera*°		Nufer 1905, Zschokke 1933	L, V
Salmonidae	*Coregonus macrophtalmus*°		Nufer 1905	V
Salmonidae	*Coregonus wartmanni*°		Zandt 1924	O
Salmonidae	*Salvelinus umbla*°		Nufer 1905	V

SPATHEBOTHRIIDEA

Acrobothriidae Olsson, 1872

Cyathocephalus Kessler, 1868

*C. truncatus** (Pallas, 1781)				
Cottidae	*Cottus gobio*			GE
Esocidae	*Esox lucius*		Gaschen 1950	VD
Gammaridae	*Gammarus pulex*°	L		NE/1917
Leuciscidae	*Rutilus rutilus*		Gaschen 1950	L
Lotidae	*Lota lota*°		Zschokke 1884, Nufer 1905, Hörning 1963	GE, NE, TI, O, L, V/1917, 1961-3, 1986
Percidae	*Perca fluviatilis*°		Nufer 1905	BA, O, V
Phoxinidae	*Phoxinus phoxinus*		Mariaux 1986	NE/1983-4
Salmonidae	*Coregonus fera*°		Zschokke 1884, 1933	NE, L, O/1917

Salmonidae	*Coregonus gutturosus*		Zschokke 1933	O
Salmonidae	*Coregonus macrophtalmus*		Zschokke 1933	N
Salmonidae	*Oncorhynchus mykiss*°		Fuhrmann 1926, Hörning 1963	GE, VD/1961-3
Salmonidae	*Salmo trutta*°		Mariaux 1986	BA, NE, B/1983, 1985
Salmonidae	*Salvelinus umbla*°		Zschokke 1884	L, V
Thymallidae	*Thymallus thymallus*		Mariaux 1986	NE/1983

TETRABOTHRIIDEA

Tetrabothriidae Baer, 1954

Tetrabothrius Rudolphi, 1819

T. (*Culmenamniculus*) *cylindraceus** (Rudolphi, 1810)

Laridae	*Chroicocephalus ridibundus*°		Fuhrmann 1926	NE

T. (*Tetrabothrius*) *macrocephalus** (Rudolphi, 1810) - (*Tetrabothrius perfidum*)

Podicipedidae	*Podiceps auritus*°		Fuhrmann 1926	N
Podicipedidae	*Podiceps cristatus*°		Fuhrmann 1926	N
Podicipedidae	*Podiceps* sp.			NE

TRYPANORHYNCHA

Trypanorhyncha Diesing, 1863

Gilquinia Guiart, 1927

*G. squali** (Fabricius, 1794) - (*Tetrarhynchus paleaceus*)

Salmonidae	*Salmo salar*°	L	Zschokke 1891, Fuhrmann 1926	BA

Grillotia Guiart, 1927

G. (*Grillotia*) *erinaceus** (van Beneden, 1858) - (*Tetrarhynchus erinaceus, Tetrarhynchus lotae*)

Salmonidae	*Salmo salar*°	L	Zschokke 1903, Fuhrmann 1926	BA

Hepatoxylon Bosc, 1811

*H. trichiuri** (Holten, 1802) - (*Coenomorphus grossus*)

Salmonidae	*Salmo salar*°	L	Zschokke 1891, Fuhrmann 1926	BA

Tentacularia Bosc, 1797

*T. coryphaenae** Bosc, 1802 - (*Tetrarhynchus quadrirostris*)

Salmonidae	*Salmo salar*°	L	Fuhrmann 1926	BA

Undetermined cestodes

Anatidae	*Anas acuta*	Hörning 1963
Anatidae	*Bucephala clangula*	Hörning 1963
Ardeidae	*Ardea cinerea*	Hörning 1963
Ardeidae	*Egretta garzetta*	Hörning 1963
Corvidae	*Corvus corax*	Hörning 1963
Corvidae	*Corvus monedula*	Hörning 1963
Corvidae	*Pyrrhocorax graculus*	Hörning 1963
Cuculidae	*Cuculus canorus*	Hörning 1963
Picidae	*Dryocopus martius*	Hörning 1963
Phylloscopidae	*Phylloscopus collybita*	Hörning 1963
Strigidae	*Strix aluco*	Hörning 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
ACTINOPTERYGII	*36*	*36% (of 100)*	*138*
AMPHIBIA	*3*	*16% (of 19)*	*4*
REPTILIA	*3*	*19% (of 16)*	*3*
AVES	*94*	*22% (of 431)*	*225*
MAMMALIA	*54*	*56% (of 99)*	*279*
TOTAL	**214**		**689**

Table 3. Host – Parasite Checklist

"Invertebrates" (24)
Gastropoda (1)
Arionidae
***Arion* sp.**
Molluscotaenia crassiscolex
Hexanauplia (10)
Cyclopidae
Acanthocyclops viridis
Parabissacanthes kazachstanica
Cyclops abyssorum
Proteocephalus longicollis
Cyclops strenuus
Diphyllobothrium latum
Proteocephalus longicollis
Eucyclops serratulus
Diphyllobothrium latum
Echinocotyle ryjikovi
Microsomacanthus compressa
Parabissacanthes philactes
Macrocyclops albidus
Microsomacanthus compressa
Fimbriaria fasciolaris
Microsomacanthus spiralibursata
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
Cyclocypris 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

Scrabaeidae
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 macrophtalmus
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
Circaetus gallicus
Mesocestoides 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 krabbella

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 oedicnemus
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 farciminosa

Nucifraga caryocatactes
Passerilepis crenata

Pica pica
Dilepis undula
Passerilepis crenata
Passerilepis stylosa

Pyrrhocorax graculus
Gen. sp.

Pyrrhocorax pyrrhocorax
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 tetrix
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.**
Dubininolepis 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*
  - *Spasspasskya 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*
  - *Mesocestoides lineatus*
  - *Taenia crassiceps*
  - *Taenia hydatigena*
  - *Taenia multiceps*
  - *Taenia pisiformis*
  - *Taenia serialis*
- ***Vulpes vulpes***
  - *Atriotaenia incisa*
  - *Diphyllobothrium latum*
  - *Dipylidium caninum*
  - *Echinococcus granulosus*
  - *Echinococcus multilocularis*
  - *Hymenolepis* sp.
  - *Mesocestoides 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
Atriotaenia 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, *Caryophyllaeides fennica* 78797, NHM 1928.1.9.202-203, USNM 1355424-5, *Khawia baltica* 78804-5

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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 albani* 32776, *Monopylidium crateriformis* 27295, 40443-4, 40441-2, *Monopylidium galbulae* 40130, *Monopylidium musculosa* 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, *Pseudoangularia* sp. 40123, *Sobolevitaenia spinosocapite* 32724, 32773-4, 38278, 57134, *Sobolevitaenia verulamii* 13401, 40117, *Spassspasskya 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, 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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, *Parabissacanthes bisacculina* 40952, *Parabissacanthes 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, 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