

A Revised Checklist and Bibliography of the Platyhelminth Parasites Reported by Dr. Yoshimasa Ozaki, 1923-1966, and Their Specimens Deposited in the Meguro Parasitological Museum, Tokyo

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Abstract: Parasite collection of Dr. Yoshimasa Ozaki has been deposited in the Meguro Parasitological Museum (MPM), Tokyo. Information on the platyhelminth parasites (turbellarians, monogeneans, and digeneans) reported in Dr. Ozaki's publications from 1923 to 1966 is assembled in a host-parasite list. The list includes: (1) for each parasite species, data adopted from corresponding publication(s), namely, the year(s) of publication(s), page number(s), figure number(s), table number(s), location(s) within the host(s), developmental stage(s), main field(s) of study, and locality(ies); (2) the holotype depository, if known; and (3) the MPM Collection Number(s) of the specimen(s) found in the collection. No note is given on taxonomy and nomenclature of host and parasite species. A bibliography, parasite-host index, and Japanese host name index are presented.

Key words: checklist, bibliography, platyhelminth parasites, parasite collection, Dr. Y. Ozaki.

Introduction

Dr. Yoshimasa Ozaki (1891-1976) did outstanding taxonomic research on parasitic platyhelminths, chiefly digeneans, from Japanese animals. He published many papers on these parasites as sole author or with his colleagues. His collection of platyhelminth parasites is now deposited in the Meguro Parasitological Museum (MPM), Tokyo (see Shimazu, 1987**). I have just finished selecting from the collection the specimens of the parasite species (turbellarians, monogeneans, and digeneans) that were described in Dr. Ozaki's publications from 1923 to 1966 and giving the MPM Collec-

tion Numbers (MPM Coll. Nos.) to them.

This checklist is a revised version of my previous publication (Shimazu, 1987**) and organized under six headings: Introduction, Methods, Host-Parasite List, References, Parasite-Host Index, and Japanese Host Name Index. The collection also contains a large number of specimens not included in Dr. Ozaki's publications, but they are not dealt with herein.

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Methods

In the Host-Parasite List, host species of the classes Bivalvia, Gastropoda, Crustacea, Holothuroidea, Osteichthyes, Amphibia, Reptilia, Aves, and Mammalia are listed in this order. They are preceded by host numbers and arranged in alphabetical order of their scientific or rarely English or Romanized Japanese names in each class. Romanized Japanese names of the classes and host species are given in brackets after the host scientific names. For each host species listed, its parasites are arranged in alphabetical order of their scientific names, each of which is accompanied by author(s) and date. The classes Turbellaria, Monogenea, and Digenea to which each parasite species belongs are indicated by "T," "M," and "D" placed before the parasite's name. For each parasite species listed, the following information is provided from each of the corresponding publications arranged chronologically: the year of publication; publication number (see the References) in brackets; page number(s); figure number(s), if present; table number(s), if present; location(s) within the host; developmental stage(s); main field(s) of study; and locality(ies). Further, enclosed in brackets after the information on locality(ies) are the MPM Coll. No(s). of the specimen(s) found in the collection; and the holotype depository, if known. When a parasite species is a new species proposed in the first identified publication, its scientific name is followed only by "n. sp." When the new species is the type species of a new genus created in the publication, its scientific name is followed only by "n. gen., n. sp." In the last brackets, a plus sign (+) indicates a new species whose holotype was deposited by the author(s) in the Zoological Institute, Science Faculty, Tokyo Imperial University (now the Department of Zoology, Faculty of Science, University of Tokyo). Thirty-eight out of the holotypes designated from 1924 to 1934 were deposited in the Zoological Institute, but all of them are missing at present. A "holotype" indicates that the holotype specimen

by original designation or by monotypy of the respective new species has been specified in the collection. A "no specimen" indicates that no specimen of the respective parasite species has been found in the collection.

In the References, publications are chronologically arranged by author(s), with their publication numbers before them. In the Parasite-Host Index, parasite species are listed in alphabetical order of their scientific names in each class. Figures located after them correspond to the host numbers given in the Host-Parasite List. In the Japanese Host Name Index, host species are listed in alphabetical order of their Romanized Japanese names in each class. Figures located after them correspond to the host numbers given in the Host-Parasite List.

Host, parasite, and locality names described in the original publications are cited in this checklist. Those that are regarded as obvious errors are followed by possible correct names in brackets. This checklist includes many matters that remain problematical, and these are followed by an interrogation mark (?) within or without brackets. My previous checklist has mistakes and errors, which have been corrected as far as possible in this checklist.

The Host-Parasite List shows that Dr. Ozaki and his coauthors established 86 new species (turbellarians, 2; monogeneans, 5; and digeneans, 79) and 1 new subspecies of monogenean. Their publications and specimens in the collection suggest that they designated holotypes and labelled the specimens as "type" for these new species and subspecies. It does not seem that they designated paratypes because no specimens labelled as "paratype" have been found in the collection. As mentioned already, since they had deposited 38 of the holotypes in the Zoological Institute, Science Faculty, Tokyo Imperial University, the collection should have included the remaining 49 holotypes. However, only 15 specimens in the collection have proved unquestionably to be labelled as "type." Specimens of many of the described parasite species no longer exist in the collection. Labels of the specimens listed in the

Host-Parasite List are incomplete. Letters written in ink on many of the labels have faded away. Moreover, some specimens lack any labels. Furthermore, the specimens listed would need closer reexamination, and nomenclatural problems of the new species and subspecies should be solved as soon as possible.

Host-Parasite List

BIVALVIA [nimaigai-rui]

- 1 *Cestrea denselamellosa* [itabogaki]
 - D *Bucephalus* cercaria: 1952 b [48], p. 69, occurrence, Hiroshima [30083?].
 - D *Bucephalus itabo* Ozaki, 1952: 1954 [50], pp. 45-46, no figure, location not given, cercaria, life cycle and taxonomy, Mukaishima (Hiroshima Pref.) [30083?].
- 2 *Cestrea gigas* [magaki]
 - D *Bucephalus itabo* n. sp.: 1952 b [48], p. 69, no figure, liver and gonad, sporocyst and cercaria, morphology and taxonomy, Hiroshima [30083?]. (The specific name and reference 50 suggest that the host is correctly *Cestrea denselamellosa*.)
- 3 *Pinctada martensi* [sic, correctly *Pinctada martensii*] [akoyagai]
 - D *Bucephalus margaritae* n. sp.: 1934 [53], pp. 439-441, figs. 1-3, whole tissue, sporocyst and cercaria, morphology and taxonomy, Wagu and Goza (Mie Pref.) [30084-30087].

GASTROPODA [makigai-rui]

- 4 *Euhadra peliomphala* [misujimaimai]
 - D *Harmostomum horisawai* n. sp.: 1925 b [5], p. 1796, no figure, pericardial cavity, metacercaria, morphology, life cycle and taxonomy, Tokyo[?] [30123].
- 5 *Philomycus bilineatus* [namekuji]
 - D *Harmostomum horisawai* n. sp.: 1925 b [5], p. 1794, no figure, pericardial cavity, metacercaria, occurrence and life cycle, Tokyo[?] [no specimen].

CRUSTACEA [kōkaku-rui]

- 6 *Potamon dehaani* [sawagani]
 - D *Macrorchis spinulosus* Ando, 1919: 1966 a [56], pp. 102-106, fig. 1, tables 1-6, liver, heart, hemocoel and body muscles, metacercaria, prevalence and morphology, Rokuroshi (Iwakuni, Yamaguchi Pref.); 1966 b [57], pp. 110-112, figs. 1-2, 1 fig. (p. 111), metacercaria, morphology, Rokuroshi [30148].
 - D *Metacercaria shikokuensis* Ito, Nakase and Yokogawa, 1956: 1966 a [56], pp. 102-106, fig. 1, tables 1-6, liver, hemocoel and body muscles, metacercaria, prevalence and morphology, Rokuroshi [30149].
 - D *Paragonimus miyazakii* Kamo, Nishida, Hatsushika and Tomimura, 1961: 1966 a [56], pp. 102-106, figs. 1-2, tables 1-6, liver, heart, hemocoel and body muscles, metacercaria, prevalence and morphology, Rokuroshi [30150].

HOLOTHUROIDEA [namako-rui]

- 7 *Stichopus japonicus* [manamako]
 - T *Anoplodium mediale* n. sp.: 1932 c [20], pp. 81-84, figs. 1-2, pls. 1-2, body cavity, adult, morphology and taxonomy, Hiroshima [+ , 30088].
 - T *Xenometra arbora* n. gen., n. sp.: 1932 c [20], pp. 85-87, fig. 3, pl. 3, intestine, adult, morphology and taxonomy, Hiroshima [+ , 30089].

OSTEICHTHYES [kōkotsugyo-rui]

- 8 *Acanthogobius flavimanus* [mahaze]
 - D *Coitocaecum orthorchis* n. sp.: 1926 b [9], pp. 128-130, no figure, stomach and intestine, adult, morphology and taxonomy, Japan [+ , no specimen]; 1929 a [13], as *Coitocaecum orthorchis*, pp. 82-84, fig. 4, stomach and intestine, adult, morphology and taxonomy, fish market in Takamatsu [no specimen].

- 9 *Acheilognathus lanceolatus lanceolatus* [yaritanago]
 D *Clinostomum complanatum* (Rudolphi, 1819) Braun, 1899: 1943 [40], pp. 13-17, figs. 2-3 and 5, pl. 1, body muscles, metacercaria, morphology and taxonomy, Saijo (Hiroshima Pref.) [30097].
- 10 *Amia lineata* [tenjikudai]
 D *Opegaster brevifistula* n. sp.: 1928 a [11], p. 20, fig. 11, intestine, adult, morphology and taxonomy, Takamatsu [+ , no specimen].
- 11 *Anguilla japonica* [unagi]
 D *Azygia anguillae* n. sp.: 1924 b [3], pp. 426-430, fig. 2 (p. 429), figs. 1-3 (p. 433), stomach, adult, morphology and taxonomy, near Tokyo [30210?].
- 12 *Beryx decadactylus* [nan'yōkinme]
 D *Bucephalopsis latus* n. sp.: 1928 b [12], pp. 54-55, fig. 25, intestine, adult, morphology and taxonomy, Tokyo [+ , no specimen].
- 13 *Cantherines modestus* [umazurahagi]
 D *Leptrema* [sic, correctly *Lepotrema*] *clavatum* Ozaki, 1932: 1936 b [32], p. 515, intestine, occurrence, near Hiroshima [30030?].
 D *Leptocreadium skrjabini* n. gen., n. sp.: 1936 b [32], pp. 513-514 and 515-516, pl. 16 (figs. 1-2), intestine, adult, morphology and taxonomy, near Hiroshima [30031?]; 1937 c [36], pp. 449-450, figs. 1-2, as in [32].
- 14 *Chilomycterus affinis* [ishigakifugu]
 D *Heterolebes maculosus* Ozaki, 1935: 1937 a [34], pp. 131-159, figs. 3, 11 and 19(B), intestine, adult, morphology, Yaku Island (Kagoshima Pref.) [no specimen] and Itoman (Loochoo Islands, Okinawa Pref.) [no specimen]; 1937 b [35], pp. 167-212 and 230, figs. 29, 41, 48(5) and 61, continued from [34].
 D *Opistholebes cotylophorus* Ozaki, 1935: 1937 a [34], pp. 131-159, figs. 2, 6, 8, 10 and 19(A)-20, pl. 2, figs. 4-5, Yaku Island [30037, 30045-30047] and Loochoo Islands [30041-30044?]; 1937 b [35], pp. 167-212 and 226-227, figs. 32-34, 40, 42(3), 46 and 59, continued from [34].
- 10 and 19(A)-20, pl. 2, figs. 4-5, intestine, adult, morphology, Yaku Island [30047?] and Itoman [no specimen]; 1937 b [35], pp. 167-212 and 226-227, figs. 32-34, 40, 42(3), 46 and 59, continued from [34].
- D *Opistholebes elongatus* n. sp.: 1937 a [34], pp. 131-159, fig. 7, intestine, adult, morphology and taxonomy, Yaku Island [30039?] and Itoman [no specimen]; 1937 b [35], pp. 228-229, figs. 42(1-2) and 60, continued from [34].
- 15 *Diacococus peterseni* [hoshisemihōbō]
 D *Anisoporus cobraeformis* n. gen., n. sp.: 1928 a [11], pp. 21-22, fig. 12, intestine, adult, morphology and taxonomy, Takamatsu [+ , no specimen].
- 16 *Diodon holacanthus* [harisenbon]
 D *Heterolebes maculosus* n. gen., n. sp.: 1935 c [29], pp. 245-246, fig. 2, intestine, adult, morphology and taxonomy, locality not given [30032?]; 1937 a [34], pp. 131-159, figs. 3, 11 and 19(B), intestine, adult, morphology and taxonomy, Yaku Island (Kagoshima Pref.) [30034?] and Loochoo Islands [30033?]; 1937 b [35], pp. 167-212 and 230, figs. 29, 41, 47, 49(5) and 61, continued from [34].
 D *Opistholebes cotylophorus* n. sp.: 1935 c [29], pp. 244-245, fig. 1, intestine, adult, morphology and taxonomy, locality not given [30040?]; 1937 a [34], pp. 131-159, figs. 2, 6, 8, 10 and 19(A)-20, pl. 2, figs. 4-5, Yaku Island [30037, 30045-30047] and Loochoo Islands [30041-30044?]; 1937 b [35], pp. 167-212 and 226-227, figs. 32-34, 40, 42(3), 46 and 59, continued from [34].
 D *Opistholebes elongatus* n. sp.: 1937 a [34], pp. 131-159, fig. 7, intestine, adult, morphology and taxonomy, Yaku Island [30037-30038?] and

- Itoman (Loochoo Islands) [30035-30036?]; 1937 b [35], pp. 167-212 and 228-229, figs. 42(1-2) and 60, continued from [34].
- 17 *Ditrema temmincki* [umitanago]
 D *Coitocaecum latum* n. sp.: 1929 a [13], pp. 88-89, fig. 7, intestine, adult, morphology and taxonomy, Shimonoseki [+ , 30051?].
- 18 *Gnathopogon mayedae* [moroko]
 D *chlonorchis* [sic, correctly *Clonorchis*] *sinensis* (Cobbold, 1875) Looss, 1907: 1949 a [42], p. 71, location not given, metacercaria, occurrence, Nishiachi and Seo (Okayama Pref.) [no specimen].
- 19 *Goniistius zonatus* [takanohadai]
 D *Leptocreadium vitellosum* n. sp.: 1936 b [32], pp. 514 and 516-517, 1 fig. (p. 517), intestine, adult, morphology and taxonomy, Shimonoseki [no specimen]; 1937 c [36], pp. 451-452, fig. 3, as in [32].
- 20 *Holacanthus septentrionalis* [kinchakudai]
 D *Paragyliacchen chaetodonis* Yamaguti, 1934: 1937 a [34], pp. 131-159, fig. 5, rectum, adult, morphology, Shimonoseki [30048]; 1937 b [35], pp. 167-212 and 218-219, figs. 37 and 49(2), continued from [34].
- 21 *Inimicus japonicus* [oniokoze]
 D *Gotonius facilis* n. gen., n. sp.: 1924 a [2], pp. 180-183 and 190-199, figs. 1(3) and 2(1-4), pl. 4 (figs. 4-5 and 10), pyloric ceca and intestine, adult, morphology and taxonomy, fish market in Takamatsu [+ , 30049]; 1928 b [12], pp. 41-42 and 45-48, figs. 10-19, as in [2].
- 22 *Latilus japonicus* [amadai]
 D *Trigonotrema alatum* n. gen., n. sp.: 1929 b [60], pp. 371-373, figs. 2-8, intestine, adult, morphology and taxonomy, Kagoshima [30052?].
- 23 *Leptocephalus myriaster* [maanago]
 D *Bucephalus itabo* Ozaki, 1952: 1954 [50], p. 46, intestine, adult, life cycle and taxonomy, experimental infection [no specimen].
- D *Dolichoenterum longissimum* n. gen., n. sp.: 1924 a [2], pp. 184-186 and 190-194, figs. 1(4) and 2(5-7), pl. 4 (figs. 6, 7 and 9), intestine, adult, morphology and taxonomy, locality not given [+ , 30078?]; 1928 b [12], pp. 49 and 51-53, figs. 20-23, intestine, adult, morphology and taxonomy, Onomichi (Hiroshima Pref.) [no specimen], Shimonoseki [30078] and Takamatsu [no specimen].
- D *Opecoelus sphaericus* n. gen., n. sp.: 1925 c [6], pp. 51-52, pl. 7 (figs. 1-2), intestine, adult, morphology and taxonomy, Takamatsu [+ , 30067?]; 1925 d [7], pp. 417-418 and 421-422, fig. 1, pl. 8 (figs. 1-2), as in [6]; 1928 a [11], pp. 7 and 9-12, figs. 1-5, intestine, adult, morphology and taxonomy, Onomichi [30068-30069?], Shimonoseki [30070-30071], Takamatsu [30067?] and Mitsugahama (Ehime Pref.) [30068-30069?].
- D *Prosorhynchus aculeatus* Odhner, 1905: 1928 b [12], p. 38, occurrence, Inland Sea of Japan [no specimen].
- D *Prosorhynchus crucibulum* (Rudolphi, 1819) Odhner, 1905: 1924 a [2], pp. 176-177 and 190-194, pl. 4 (fig. 1), location not given, adult, morphology, Itosaki [30072?] and Onomichi (Hiroshima Pref.) [30072?].
- D *Prosorhynchus squamatus* Odhner, 1905: 1924 a [2], pp. 177-178 and 190-194, fig. 1(1), pl. 4 (fig. 2), intestine, adult, morphology, locality not given [no specimen].
- D *Prosorhynchus uniporus* n. sp.: 1924 a [2], pp. 178-180 and 190-194, fig. 1(2), pl. 4 (figs. 3 and 8), intestine, adult, morphology and taxonomy,

- Itosaki [+ , 30074] and Onomichi [no specimen]; 1928 b [12], pp. 36 and 38-39, figs. 1-5, pyloric ceca and intestine, adult, morphology and taxonomy, Onomichi [no specimen], Shimonoseki [30076] and Takamatsu [30075]; 1954 [50], p. 46, intestine, experimental infection, life cycle and taxonomy [no specimen].
- 24 *Leptocephalus* sp. [maanago?]
 D *Prosorhynchus crucibulum* (Rudolphi, 1819) Odhner, 1905: 1928 b [12], pp. 39 and 41, figs. 6-9, intestine, adult, morphology, Japan [30073?].
- 25 *Misgurnus anguillicaudatus* [dojō]
 D *Macrolecithus gotoi* n. gen., n. sp.: 1926 [62], pp. 225-227, fig. 1, 1 table (p. 226), intestine, adult, morphology and taxonomy, locality not given [+ , 30009?].
- 26 *Mogurnda obscura* [donko]
 D *Asymphylodora macrostoma* n. sp.: 1925 a [4], pp. 104-106, fig. 4, cloaca, adult, morphology and taxonomy, near Saijo (Hiroshima Pref.) [30028?].
 D *Coitocaecum plagiorchis* n. sp.: 1926 b [9], pp. 125-128, no figure, stomach and intestine, adult, morphology and taxonomy, Japan [+ , 30028?]; 1929 a [13], as *Coitocaecum plagiorchis*, pp. 77-78 and 80-82, figs. 1-3, stomach and intestine, adult, morphology and taxonomy, Saijo [30028?].
 D *Genarchopsis goppo* n. gen., n. sp.: 1925 a [4], pp. 101-103, figs. 1-3, intestine, adult, morphology and taxonomy, near Saijo [30028?]; 1929 a [13], p. 78, occurrence, Saijo.
- 27 *Monacanthus cirrhifer* [kawahagi]
 D *Hypocreadium symmetrorchis* n. gen., n. sp.: 1936 b [32], pp. 514-515 and 517-518, pl. 16, figs. 3-4, intestine, adult, morphology and taxonomy, Goza (Mie Pref.) [no specimen]; 1937 c [36], as *H. symmetrorchis*, p. 452, fig. 4, as in [32].
- D *Lepotrema clavatum* n. gen., n. sp.: 1932 b [19], pp. 44-45, figs. 1-3, intestine, adult, morphology and taxonomy, from Otaru (Hokkaido) southwards to Nagasaki [30029?].
- D *Plectognathotrema lobatum* n. sp.: 1937 b [35], pp. 209 and 234-236, figs. 49(7), 63 and 68, ovary, adult, morphology and taxonomy, Shimonoseki [30050].
- 28 *Moroco steindachneri* [aburahaya]
 D *Liolope copulans* Cohn, 1902: 1951 [54], pp. 113-118, figs. 1-4, tables 1-5, body muscles, metacercaria, morphology, Ooasa (Hiroshima Pref.) [no specimen].
- 29 *Opsariichthys uncistrostris* [hasu]
 D *Allocreadium hasu* n. sp.: 1926 b [9], p. 125, no figure, intestine, adult, morphology and taxonomy, Japan [+ , 30006?].
- 30 *Paraperchis ommatura* [matōtoragisu]
 D *Opegaster ovatus* n. gen., n. sp.: 1928 a [11], pp. 17-18, fig. 9, intestine, adult, morphology and taxonomy, Takamatsu [+ , no specimen].
 D *Opegaster rectus* n. sp.: 1928 a [11], p. 19, fig. 10, intestine, adult, morphology and taxonomy, Takamatsu [+ , no specimen].
- 31 *Parapristipoma trilineatum* [isaki]
 D *Opecoelus lobatus* n. sp.: 1925 c [6], p. 52, no figure, intestine, adult, morphology and taxonomy, Choshi (Chiba Pref., not Ibaraki Pref.) [+ , no specimen]; 1925 d [7], pp. 419 and 422, pl. 8, fig. 3, as in [6]; 1928 a [11], pp. 12-13, fig. 6, intestine, adult, morphology and taxonomy, Choshi [no specimen].
- 32 *Parasilurus asotus* [namazu]
 D *Bucephalopsis ovatus* n. sp.: 1928 b [12], pp. 56-58, fig. 27, intestine, adult, morphology and taxonomy, Korea [+ , 30082].
- 33 *Pleuronichthys cornutus* [meitagarei]

- D *Bucephalus itabo* Ozaki, 1952 = *Proserhynchus uniporus* Ozaki, 1924: 1954 [50], pp. 45-46, skin, metacercaria, morphology, life cycle and taxonomy, natural and experimental infections, near Onomichi (Hiroshima Pref.) [no specimen].
- 34 *Sarcocheilichthys variegatus* [higai]
 D *Lebouria elongata* n. sp.: 1930 [61], p. 75, fig. 2, intestine, adult, morphology and taxonomy, Lake Biwa (Shiga Pref.) [30024?].
 D *Tetracotyle biwaensis* n. sp.: 1930 [61], pp. 80-81, figs. 6-7, adipose tissue of mesenteries and liver, metacercaria, morphology and taxonomy, Lake Biwa [no specimen].
- 35 *Scomberomorus niphonius* [sawara]
 D *Nannoenterum pentagonum* n. gen., n. sp.: 1924 a [2], pp. 187 and 190, fig. 1(5), intestine, adult, morphology and taxonomy, locality not given [+ , 30062]; 1928 b [12], pp. 53-54, fig. 24, intestine, adult, morphology and taxonomy, Takamatsu, as in [2].
- 36 *Seriola aureovittata* [hiramasa]
 D *Bucephalopsis elongatus* n. sp.: 1928 b [12], p. 56, fig. 26, intestine, adult, morphology and taxonomy, Takamatsu [+ , 30090].
- 37 *Siganus fuscescens* [aigo]
 D *Atractotrema fusum* n. gen., n. sp.: 1929 b [60], pp. 369-370, fig. 1, intestine, adult, morphology and taxonomy, Takamatsu [30056, holotype].
 D *Coitocaecum diplobulbosum* n. sp.: 1929 a [13], p. 85, fig. 5, intestine, adult, morphology and taxonomy, Takamatsu [+ , no specimen].
 D *Coitocaecum unibulbosum* n. sp.: 1929 a [13], pp. 86-87, fig. 6, intestine, adult, morphology and taxonomy, Takamatsu [+ , 30055?].
 D *Gyliauchen papillatus* (Goto and Matsudaira, 1918) Goto, 1919: 1929 b [60], p. 370, intestine, occurrence, Takamatsu [30057]; 1937 a [34], pp. 131-159, fig. 1(C), intestine, adult, morphology and taxonomy, Tokyo [no specimen], Takamatsu [30057], Shimonoseki [30059?]; Kagoshima [30059?] and Loochoo Islands (Okinawa Pref.) [30058]; 1937 b [35], pp. 167-212 and 214-216, figs. 35 and 49(3)-51, continued from [34].
- D *Hexangium sigani* n. gen., n. sp.: 1929 b [60], pp. 374-376, figs. 9-12, intestine, adult, morphology and taxonomy, Misaki (Kanagawa Pref.) [no specimen] and Takamatsu [30060, holotype]; 1937 a [34], pp. 150-164, figs. 22-24, as in [60].
- 38 *Siganus punctatus* [kuroaigo]
 D *Gyliauchen nahaensis* n. sp.: 1937 a [34], pp. 131-159, fig. 4, intestine, adult, morphology and taxonomy, Naha (Loochoo Islands, Okinawa Pref.) [30053-30054?]; 1937 b [35], pp. 167-212, 216 and 218, figs. 44(B) and 52-53, continued from [34].
- 39 *Spheroides niphobles* [kusafugu]
 D *Heterolebes maculosus* Ozaki, 1935: 1937 a [34], pp. 131-158, figs. 3, 11 and 29(B), intestine, adult, morphology, Kusatsu near Hiroshima [no specimen]; 1937 b [35], pp. 167-212 and 230, figs. 29, 41, 47, 49(5) and 61, continued from [34].
 D *Maculiber japonicus* Layman, 1931: 1937 a [34], pp. 131-158, fig. 21, pl. III (figs. 6-7), intestine, adult, morphology, Kusatsu and Shimonoseki [no specimen]; 1937 b [35], pp. 167-212 and 232-233, figs. 43, 48 and 62, continued from [34].
 D *Opistholebes cotylophorus* Ozaki, 1935: 1937 a [34], pp. 131-158, figs. 2, 6, 8, 10, 19(A) and 20, pl. II (figs. 4-5), intestine, adult, morphology, Kusatsu [30061?]; 1937 b [35], pp. 167-212 and 226-227, figs. 32-34, 40, 42(3), 46 and 59, continued from

- [34].
- D *Opistholebes elongatus* Ozaki, 1937: 1937 a [34], p. 127, occurrence, Kusatsu [no specimen].
- 40 *Spheroides pardalis* [higanfugu]
- D *Diploporus cryptostoma* n. sp.: 1928 a [11], pp. 30 and 32, figs. 16-17, intestine, adult, morphology and taxonomy, Takamatsu [+ , 30015?].
- D *Diploporus hemistoma* n. gen., n. sp.: 1928 a [11], pp. 25 and 27-29, figs. 13-15, intestine, adult, morphology and taxonomy, Takamatsu [+ , 30016?].
- D *Plehnia japonica* n. gen., n. sp.: 1929 b [60], pp. 377-379, figs. 13-14, intestine, adult, morphology and taxonomy, Inland Sea of Japan [no specimen].
- D *Psettarium japonicum* (Goto and Ozaki, 1929) Goto and Ozaki, 1930 (= *Plehnia japonica*): 1930 [61], p. 81, new generic name, as in [60].
- 41 *Trachurus japonicus* [maaji]
- D *Opecoelus lobatus* Ozaki, 1925: 1928 a [11], pp. 12-13, fig. 6, intestine, adult, morphology and taxonomy, Choshi (Chiba Pref., not Ibaraki Pref.) [30079?] and Misaki (Kanagawa Pref.) [30079?].
- 42 *Tridentiger obscurus* [chichibu]
- D *Coitocoecum orthorchis* n. sp.: 1926 b [9], pp. 128-130, no figure, stomach and intestine, adult, morphology and taxonomy, Japan [+ , no specimen]; 1929 a [13], as *Coitocaecum orthorchis*, pp. 82-84, fig. 4, stomach and intestine, adult, morphology and taxonomy, Ohota River (Hiroshima Pref.) [no specimen].
- D *Urorchis goro* n. gen., n. sp.: 1927 [10], pp. 160-163, figs. 5-7, intestine, adult, morphology and taxonomy, a swamp near Sendai and Kasumigaura (Ibaraki Pref.) [+ , 30022?].
- 43 *Tylosurus coromandelicus* [tenjikudatsu]
- D *Bucephalopsis tylosuris* n. sp.: 1952 [63], pp. 85-88, figs. 1-3, intestine, adult, morphology and taxonomy, Gosa [sic, correctly Goza, Mie Pref. ?] [no specimen].
- 44 *Upeneus pleurospilos* [takasagohimeji]
- D *Opecoelus elongatus* n. sp.: 1928 a [11], p. 14, fig. 7, intestine, adult, morphology and taxonomy, Nagasaki [+ , no specimen].
- D *Opecoelus quadratus* n. sp.: 1928 a [11], p. 16, fig. 8, intestine, adult, morphology and taxonomy, Nagasaki [+ , no specimen].
- 45 *Uranoscopus japonicus* [mishimaokoze]
- D *Isocoelium medioleicithale* n. gen., n. sp.: 1927 [10], pp. 157-160, figs. 1-4, intestine, adult, morphology and taxonomy, Takamatsu [+ , no specimen].
- D *Paraisocoelium exorchis* n. gen., n. sp.: 1932 e [22], pp. 450-451, figs. 1-4, intestine, adult, morphology and taxonomy, Japan[?] [30081?].
- 46 *Xesurus scalprum* [nizadai]
- D *Flagellotrema convolutum* n. gen., n. sp.: 1936 c [33], pp. 951-953, 1 fig. (p. 952), rectum, adult, morphology and taxonomy, locality not given [30063, holotype]; 1937 a [34], pp. 131-159, figs. 1(B), 15 and 16, pl. 1 (fig. 3), rectum, adult, morphology and taxonomy, Hiroshima [30063] and Kagoshima [no specimen]; 1937 b [35], pp. 167-212 and 222-223, figs. 27, 36 and 56-57, continued from [34].
- D *Petalocotyle nipponica* n. gen., n. sp.: 1934 a [24], pp. 111-114, figs. 1-2, intestine, adult, morphology and taxonomy, Hiroshima [+ , 30064] and Kagoshima [no specimen]; 1937 a [34], pp. 131-159, figs. 17-18, pl. 1 (figs. 1-2), intestine, adult, morphology and taxonomy, Hiroshima [30064] and Kagoshima [no speci-

- men]; 1937 b [35], pp. 167-212 and 224-225, figs. 28, 39, 49(1) and 58, continued from [34].
- D *Telotrema caudatum* n. gen., n. sp.: 1933 [23], pp. 330-331, figs. 1-2, intestine, adult, morphology and taxonomy, Japan[?] [30065-30066?]; 1934 b [25], p. 82, location not given, adult[?], excretory system and lymph canals, locality not given [no specimen]; 1934 c [26], pp. 380-381, figs. 1-3, location not given, adult[?], lymph system, locality not given; 1937 a [34], pp. 131-159, figs. 1(A), 9 and 12-14, rectum, adult, morphology, Hiroshima [30065?] and Kagoshima [30066?]; 1937 b [35], pp. 167-212 and 220, figs. 25-26, 30-31, 38, 44-45 and 54-55, continued from [34].
- 47 *Zacco platypus* [oikawa]
 D *Allocreadium* [sic, correctly *Allocreadium japonicum* n. sp.: 1926 b [9], pp. 124-125, no figure, intestine, adult, morphology and taxonomy, Japan [+ , 30007?].
- AMPHIBIA [ryōsei-ruī]
- 48 "Akagaeru" [= *Rana temporaria ornativentris?*] [yamaakagaeru?]
 M *Polystoma integerrimum* Frolich, 1791 [sic]: 1931 c [17], p. 23, urinary bladder, occurrence and morphology, Sendai [30091].
- 49 *Bufo vulgaris formosus* [hikigaeru]
 D *Mesocoelium brevicaecum* Ochi in Goto and Ozaki, 1929: 1929 a [59], pp. 213-214, fig. 1, small intestine, adult, morphology and taxonomy, Hiroshima and Otsu [Hiroshima Pref.?] [30104-30105 and 30111?].
- 50 *Diemyctylus pyrrhogaster* [imori]
 D *Mesocoelium elongatum* n. sp.: 1929 a [59], pp. 214-215, fig. 2, small intestine, adult, morphology and taxonomy, Sendai, Tokyo and Hiroshima [30102-30103].
- 51 *Megalobatrachus japonicus* [ōsanshōuo]
 D *Liolope copulans* Cohn, 1902: 1951 [54], pp. 113 and 118-119, duodenum, adult, occurrence, feeding experiment with metacercariae, Ooasa (Hiroshima Pref.) [30147].
- 52 *Onychodactylus japonicus* [hakonesan-shōuo]
 M *Polystoma dendriticum* n. sp.: 1948 [41], pp. 34-35, 1 fig. (p. 34), urinary bladder, adult, morphology, taxonomy and life cycle, Mt. Isizuti (Ehime Pref.) [30017-30020].
- 53 *Polypedates buergeri* [kajikagaeru]
 D *Cryptotrema kuretanii* n. gen., n. sp.: 1926 a [8], pp. 33-36, figs. 1-4, duodenum, adult, morphology and taxonomy, near Yasuhara (Kagawa Pref.) [+ , 30138].
 D *Mesocoelium japonicum* n. sp.: 1930 [61], pp. 77-78, fig. 4, small intestine, adult, morphology and taxonomy, Yasuhara [30098, holotype].
 D *Microlecithus kajika* n. gen., n. sp.: 1926 a [8], pp. 38-39, figs. 5-6, urinary bladder, adult, morphology and taxonomy, near Yasuhara [+ , no specimen].
 D *Pleurogenes lobatus* n. sp.: 1926 a [8], pp. 40-43, figs. 7-8, bile duct, adult, morphology and taxonomy, near Yasuhara [+ , no specimen].
- 54 *Pseudosalamandra stejnegeri* [buchisan-shōuo]
 D *Mesocoelium japonicum* Goto and Ozaki, 1930: 1930 [61], p. 78, occurrence, Kyushu [no specimen].
 D *Mesocoelium pearsei* n. sp.: 1930 [61], pp. 76-77, fig. 3, small intestine, adult, morphology and taxonomy, shipped from Kagoshima [30101, holotype].
- 55 *Rana rugosa* [tsuchigaeru]
 M *Diplorchis ranae* n. gen., n. sp.: 1931 a [15], pp. 181-184, 1 fig. (p. 182), urinary bladder, adult, morphology and taxonomy, Japan[?] [30106-30108?],

- holotype]; 1931 c [17], p. 23, urinary bladder, adult[?], morphology, Japan [30106-30108]; 1932 a [18], pp. 16-17, development and morphology, Japan [30109-30110]; 1935 b [28], pp. 196-210 and 213, figs. 4-17, pls. 1-3, urinary bladder, adult, morphology and taxonomy, Koishikawa (Tokyo) [30106-30107], Osaka [30108], Hiroshima [30118?], Shionoe (Kagawa Pref.) [no specimen] and Shiroyama (Kagoshima) [no specimen]; 1935 d [30], pp. 23-34, figs. 1-6, pls. 1-2, egg, swimming larva, hatching, behavior and morphology, laboratory experiments [30109-30110].
- D *Mesocoelium ovatum* n. sp.: 1930 [61], pp. 78-79, fig. 5, small intestine, adult, morphology and taxonomy, Sendai [30099, holotype] and Komaba near Tokyo [30100].
- 56 *Rana temporaria ornativentris* [yama-akagaeru]
- M *Polystoma integerrimum* (Frolich, 1791) Rudolphi, 1808: 1932 a [18], p. 16, urinary bladder, occurrence, Japan; 1935 b [28], pp. 195 and 212, figs. 1-3, urinary bladder, immature worm, morphology, Sendai [30091], Shakushiji [correctly Shakuji] near Tokyo [no specimen] and Fukuoki (Hiroshima Pref.) [30092].
- M *Polystomum integerrimum japonicum* n. subsp.: 1940 a [38], p. 48, no figure, urinary bladder, adult, morphology and taxonomy, Japan [30091-30092 and 30094-30095].
- 57 *Tylototriton andersoni* [iboimori]
- D *Mesocoelium lanceatum* n. sp.: 1929 a [59], pp. 216-217, fig. 3, location not given, adult, morphology and taxonomy, Ryukyu Islands (Okinawa Pref.) [30112]; 1936 a [31], p. 85, fig. 3(B), location not given, adult, morphology, Kunigami (Loochoo [=Ryukyu] Islands), as in [59].
- REPTILIA [hachū-ru]
- 58 *Clemmys japonica* [ishigame] (see also 61)
- M *Polystomoides exhamatum* n. sp.: 1935 b [28], pp. 217-219, figs. 24-28, urinary bladder, adult, morphology and taxonomy, Japan[?] [30115].
- M *Polystomoides japonicum* n. sp.: 1935 b [28], pp. 214-217, figs. 18-23, mouth and esophagus, adult, morphology and taxonomy, Saijo (Hiroshima Pref.) [30113?] and others [30114?].
- 59 *Elaphe quadrivirgata* [shimahebi]
- D *Encyclometra japonica* n. sp.: 1929 [64], pp. 239-241, fig. 1, pl. 1 (figs. 1-3), intestine, adult, morphology and taxonomy, Japan [no specimen].
- 60 *Geoemyda spengleri* [yamagame]
- M *Polystomoides megaovum* n. sp.: 1936 a [31], pp. 86-89, figs. 4-7, urinary bladder, adult, morphology and taxonomy, Kunigami (Loochoo Islands, Okinawa Pref.) [30116, holotype].
- D *Mesocoelium geoemydae* n. sp.: 1936 a [31], pp. 81-85, figs. 1-3(A), small intestine, adult, morphology and taxonomy, Kunigami [30117].
- 61 "Ishigame" [= *Clemmys japonica*] (see also 58)
- M Polystome (unnamed): 1931 c [17], p. 23, esophagus, adult[?], morphology and taxonomy, Japan [30113?].
- M Polystome (unnamed): 1931 c [17], pp. 23-24, urinary bladder, adult[?], morphology and taxonomy, Japan [30115].
- 62 *Ocadia sinensis* [shinagame]
- D *Hapalorhynchus* sp.: 1932 d [21], p. 42, vein, tissue of urinary bladder and lung, occurrence, Hiroshima (imported from Shanghai, China) [30119?].
- D *Hapalorhynchus yoshidai* n. sp.: 1939 [37], pp. 29-32 and 34-35, 1 pl. (figs. 1-3), blood vessel, adult, mor-

phology and taxonomy, Hiroshima (imported from Shanghai, China) [30011 and 30120, holotype].

- D *Leurosoma orientale* n. gen., n. sp.: 1932 d [21], pp. 42 and 44, 1 fig. (p. 43), lung, adult, morphology and taxonomy, Hiroshima (imported from Shanghai, China) [30121, holotype].

AVES [chō-ru]

- 63 *Corvus macrorhynchus japonensis* [hashibutogarasu]

D *Microparaphium corvi* n. sp.: 1923 [1], pp. 66-69, 1 fig. (p. 66), pl. 2 (figs. 1-3), cloaca, adult, morphology and taxonomy, Saijo (Hiroshima Pref.) [30136, holotype].

- 64 "Niwatori" [= *Gallus gallus*]

D *Harmostomum horisawai* n. sp.: 1925 b [5], pp. 1795-1976, no figure, cecum, adult, morphology, taxonomy and life cycle, natural and experimental infection, Tokyo[?] [30124 and 30204].

- 65 *Nycticorax nycticorax* [goisagi]

D *Clinostomum complanatum* (Rudolphi, 1819) Braun, 1899: 1943 [40], pp. 11, 13 and 15, fig. 4, location not given, adult, morphology and taxonomy, Hachijo-jima (Tokyo) [30125].

MAMMALIA [honyū-ru]

- 66 *Bos taurus* [ushi] (see also 77)

D *Gastrothylax cobboldi* Fiscoeder, 1883: 1951 a [44], pp. 36-37, stomach, miracidium, hatching and morphology, laboratory experiment; 1951 b [45], p. 21, miracidium, morphology, laboratory experiment; 1951 c [46], pp. 101-109, fig. 4(c), pl. 2 (fig. A), table 2, rumen and reticulum, miracidium, hatching and morphology, laboratory experiment, Hiroshima [30182].

D *Paramphistomum cervi* (Schrank, 1790) Fiscoeder, 1901: 1952 c [49],

pp. 82-83, no figure, stomach, adult, lymph system and excretory system, Hiroshima [30186].

D *Paramphistomum explanatum* (Crepelin, 1847) Fiscoeder, 1904: 1951 a [44], pp. 36-37, stomach, miracidium, hatching and morphology, laboratory experiment; 1951 b [45], p. 21, miracidium, morphology, laboratory experiment; 1951 c [46], pp. 101-109, figs. 1-4(A), pls. 1-2 (fig. B), tables 1-3, rumen and reticulum, miracidium, hatching and morphology, laboratory experiment, Hiroshima [30183].

D *Paramphistomum gotoi* Fukui, 1922: 1952 c [49], pp. 82-83, fig. 4, stomach, adult, lymph system and excretory system, Hiroshima [30185].

D *Paramphistomum orthocoelium* Fiscoeder, 1901: 1951 a [44], pp. 36-37, stomach, miracidium, hatching and morphology, laboratory experiment; 1951 b [45], p. 21, miracidium, morphology, laboratory experiment; 1951 c [46], pp. 101-109, fig. 4(B), table 2, rumen and reticulum, miracidium, hatching and morphology, laboratory experiment, Hiroshima [30184]; 1952 c [49], pp. 79-82, figs. 1-3, stomach, adult, lymph system and excretory system, Hiroshima [30187].

- 67 *Crociodura (Pachyura) caerulea* [jakōnezumi]

D *Opisthioglyphe hinoi* n. sp.: 1931 b [16]. pp. 112-116, 1 fig. (p. 114), uterus and vagina, adult, morphology and taxonomy, Kagoshima [+ , no specimen].

- 68 "Dōbutsu?" (host name not given)

D *Clonorchis sinensis* (Cobbold, 1875) Looss, 1907: 1955 [55], pp. 125-126, location not given, adult, nervous system, laboratory experiment [30144].

- 69 "Hito" [= *Homo sapiens*]

- D *Clinostomum complanatum* (Rudolphi, 1819) Braun, 1899: 1943 [40], pp. 11-13, fig. 1, pharynx, adult, morphology and taxonomy, Kyushu [no specimen].
- D *Heterophyes katsuradai* n. sp.: 1925 [51], pp. 6-8, 1 pl., intestine, adult, morphology and taxonomy, Kobe [30126, holotype]; 1926 [52], pp. 216-218, pl. 25 (figs. 1-2), as in [51].
- 70 "Kato" [= *Oryctolagus cuniculus*] (see also 75)
- D *Schistosoma japonicum* Katsurada, 1904: 1949 b [43], p. 456, location not given, miracidium, morphology, laboratory experiment [30140].
- 71 *Mus norvegicus* [dobunezumi] (see also 76)
- D *Echinoparyphium japonicum* n. sp.: 1923 [58], pp. 117-118, fig. 8, pl. 3 (figs. 1[D] and 5), intestine, adult, morphology and taxonomy, Gifu, Hiroshima and Shiga Prefectures [no specimen].
- D *Echinostoma cinetorchis* n. sp.: 1923 [58], pp. 109-112, figs. 1-3, pl. 3 (Figs. 1[A and A'] and 2), intestine, adult, morphology and taxonomy, Gifu, Hiroshima and Shiga Prefectures [30127, holotype].
- D *Echinostoma gotoi* n. sp.: 1923 [58], pp. 112-114, figs. 4-5, pl. 3 (figs. 1[B] and 3), intestine, adult, morphology and taxonomy, Gifu, Hiroshima and Shiga Prefectures [30128, holotype].
- D *Echinostoma macrorchis* n. sp.: 1923 [58], pp. 115-117, figs. 6-7, pl. 3 (figs. 1[C] and 4), intestine, adult, morphology and taxonomy, Gifu, Hiroshima and Shiga Prefectures [no specimen].
- 72 *Neophocaena phocaenoides* [sunameri]
- D *Campula folium* n. sp.: 1935 a [27], pp. 123-130, figs. 9-15, liver, adult, morphology and taxonomy, Awashima (Hiroshima Pref.) [30004, holotype].
- D *Nasitrema spathulatum* n. gen., n. sp.: 1935 a [27], pp. 131-135, figs. 16-19, nasal cavity, adult, morphology and taxonomy, Awashima [30005].
- D *Orthosplanchnus elongatus* n. sp.: 1935 a [27], pp. 116-121, figs. 1-8, small intestine, adult, morphology and taxonomy, Awashima [30003].
- 73 *Phoca hispida* [fuiriazarashi]
- D *Phocitrema fusiforme* n. gen., n. sp.: 1930 [61], pp. 73-74, fig. 1, intestine, adult, morphology and taxonomy, Hanayashiki Zoological Garden (Tokyo) [no specimen].
- 74 *Pipistrellus abramus* [aburakōmori]
- D *Mesodendrium macrostomum* n. sp.: 1929 b [14], pp. 91-92, fig. 1, small intestine, adult, morphology and taxonomy, near Tokyo [+ , 30026a?].
- D *Mesodendrium spathulatum* n. sp.: 1929 b [14], pp. 94-95, fig. 2, small intestine, morphology and taxonomy, near Tokyo [+ , 30026b?].
- D *Pycnoporos transversus* n. sp.: 1929 b [14], pp. 95-97, fig. 3, small intestine, adult, morphology and taxonomy, near Tokyo [+ , 30027?].
- 75 "Rabitt" [= *Oryctolagus cuniculus*] [kato] (see also 69)
- D *Schistosoma japonicum* Katsurada, 1904: 1952 a [47], pp. 344-349, figs. 1-3, tables 1-4, wall of small intestine, miracidium, epidermal structure, laboratory experiment [30140].
- 76 "Shironezumi" [= *Mus norvegicus*] (see also 71)
- D *chlonorchis* [sic, correctly *Clonorchis*] *sinensis* (Cobbold, 1875) Looss, 1907: 1949 a [42], pp. 71-72, ductus biliferi, adult, excretory system, laboratory experiment [30143].
- D *Echinostoma cinetorchis* Ando and Ozaki, 1923: 1923 [58], p. 118, occurrence [no specimen].

- D *Echinostoma macrorchis* Ando and Ozaki, 1923: 1923 [58], p. 118, occurrence [30129?].
- 77 "Ushi" [= *Bos taurus*] (see also 66)
- D *Gastrothylax elongatus* Poirier, 1883: 1940 b [39], p. 48, stomach, adult[?], excretory system, locality not given [30188?].
- D *Paramphistoma* [sic] *explanatum* (Creplin, 1847) Fiscoeder, 1904: 1940 b [39], pp. 47-48, stomach, adult[?], excretory system, locality not given [30189?].
- D *Paramphistoma* [sic] *orthocoelium* Fiscoeder, 1901: 1940 b [39], p. 48, stomach, adult[?], excretory system, locality not given [30190?].
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