

Recent and fossil invertebrate primary types in the Museum of New Zealand Te Papa Tongarewa: Protozoa, Acanthocephala, Annelida, Brachiopoda, Myxozoa, Nematoda, Nematomorpha, Platyhelminthes, Porifera and Sipuncula

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ABSTRACT: The Museum of New Zealand Te Papa Tongarewa's holdings of primary types in the following invertebrate groups are listed: Protozoa, Acanthocephala, Annelida, Brachiopoda, Myxozoa, Nematoda, Nematomorpha, Platyhelminthes, Porifera and Sipuncula. A list of primary types missing from the museum collections and a complete list of primary references are also provided.

KEYWORDS: Recent, fossil, invertebrate, primary types, Protozoa, Acanthocephala, Annelida, Brachiopoda, Myxozoa, Nematoda, Nematomorpha, Platyhelminthes, Porifera, Sipuncula, missing types.

Introduction

The Museum of New Zealand Te Papa Tongarewa (formerly Colonial Museum, Dominion Museum, and National Museum of New Zealand) holds primary type specimens of more than 2855 nominal invertebrate taxa. This number includes additions (not listed here) to published lists of: Cenozoic invertebrates (Keyes 1971); Arthropoda (other than Crustacea) and Tardigrada (Palma *et al.* 1989); Mollusca (Marshall 1996); Cnidaria, Pycnogonida and Crustacea (Hicks *et al.* 1991). The following list includes primary types of invertebrate phyla other than those mentioned above. Most of the 338 nominal taxa listed in this paper are from the New Zealand region, although there are a few species of Porifera from

Hawaii (Bergquist 1967), and some parasitic protozoans and a nematode from Fiji (Laird 1950c, 1951a). Missing type material is also listed.

Format

Entries are arranged alphabetically under subkingdom, phylum, species epithet, author and date of publication (serving also as reference to original publication), page reference in original publication, genus, type status, registration number(s), and preservation mode(s). Taxa are listed in original genera, but grouped in modern taxonomic hierarchies as per Cavalier-Smith (1998), Dawson (1992), and Gordon (in press). A list of bibliographic references containing the original descriptions of the species listed is given at the end of the paper.

List of Primary Types Subkingdom PROTOZOA

Phylum APICOMPLEXA

- acanthoclini* Laird, 1953 (p. 96), *Haemogregarina* (*Hepatozoon?*). Holotype Pr.180 (slide).
coelorhynchi Laird, 1952 (p. 589), *Haemogregarina*. Holotype Pr.130 (slide).
hoplichthys Laird, 1952 (p. 594), *Haemogregarina*. Holotype Pr.150 (slide).
leptoscopi Laird, 1952 (p. 596), *Haemogregarina*. Holotype Pr.140 (slide).
lygosomae Laird, 1951 (b: p. 184), *Plasmodium*. Holotype Pr.101 (slide).
lygosomarum Doré, 1919 (p. 164), *Haemogregarina*. Holotype Pr.30 (slide).
tawaki Fallis, Bisset & Allison, 1976 (p. 11), *Leucocytozoon*. Syntypes Pr.19–22 (four slides).
tuatarae Laird, 1950 (a: p. 529), *Haemogregarina*. Holotype Pr.300 (slide).

Phylum CERCOZOA

- constantiae* Howell, 1967 (p. 233), *Urosporidium*. Holotype Pr.1 (slide).

Phylum CILIOPHORA

- acanthoclini* Laird, 1953 (p. 114), *Scyphidia* (*Gerda*). Holotype Pr.190 (slide).
kirki Bary, 1950 (p. 3), *Glaucoma*. Holotype Pr.35 (slide).
longipes Laird, 1953 (p. 117), *Caliperia*. Holotype Pr.200 (slide).
loricata Bary, 1950 (p. 7), *Stentor*. Holotype Pr.41 (slide).
multidentis Laird, 1953 (p. 130), *Trichodina*. Holotype Pr.220 (slide).
parabranhicola Laird, 1953 (p. 121), *Trichodina*. Holotype Pr.210 (slide).
rubra Bary, 1950 (p. 10), *Stentor*. Holotype Pr.43 (slide).
setiformis Bary, 1950 (p. 12), *Uroleptus*. Holotype Pr.44 (slide).

Phylum EUGLENOZOA

- gargantua* Laird, 1951 (c: p. 293), *Trypanosoma*. Holotype Pr.70 (slide).
heptatreti Laird, 1948 (p. 440), *Trypanosoma*. Holotype Pr.400 (slide).

Phylum RETARIA

- bartrumi* Parr, 1934 (p. 144), *Halkyardia*. Holotype Pr.442 (slide).

Subkingdom METAZOA

Phylum ACANTHOCEPHALA

- galaxii* Hine, 1977 (a: 52), *Acanthocephalus*. Holotype W.2061 (slide).
novaezelandensis Brockerhoff & Smales, 2002 (p. 58), *Proflicollis*. Holotype W.1498 (ethanol).

Phylum ANNELIDA

- agilis* Lee, 1952 (b: p. 566), *Deinodrilus*. Holotype W.485 (ethanol).
agilis Lee, 1949 (p. 951), *Neodrilus*. Holotype W.214 (ethanol).
albidus Lee, 1952 (a: p. 539), *Rhododrilus*. Holotype W.522 (ethanol).
albus Lee, 1952 (c: p. 35), *Megascolides*. Holotype W.533 (ethanol).
alpinus Lee, 1959 (p. 196), *Maoridrilus*. Holotype W.525 (ethanol).
androgyna Read, 1975 (p. 402), *Boccardia*. Holotype W.1063 (ethanol).
aquaticus Lee, 1959 (p. 149), *Rhododrilus*. Holotype W.493 (ethanol).
argillae Lee, 1959 (p. 342), *Spenceriella*. Holotype W.532 (ethanol).
benhami Richardson, 1950 (p. 98), *Pontobdella*. Holotype W.221 (ethanol).
benhami Lee, 1952 (a: p. 548), *Rhododrilus*. Holotype W.511 (ethanol).
campestris Lee, 1952 (c: p. 39), *Pheretima*. Holotype W.494 (ethanol).
carnosus Lee, 1959 (p. 198), *Maoridrilus*. Holotype W.544 (ethanol).
digitocystis Lee, 1952 (b: p. 570), *Leucodrilus*. Holotype W.539 (ethanol).
disparatus Lee, 1952 (a: p. 542), *Rhododrilus*. Holotype W.476 (ethanol).
forsteri Lee, 1959 (p. 73), *Eudinodriloides*. Holotype W.527 (ethanol).
forsteri Lee, 1959 (p. 232), *Neochaeta*. Holotype W.219 (ethanol).
fuscus Lee, 1952 (b: p. 572), *Leucodrilus*. Holotype W.482 (ethanol).
fuscus Lee, 1952 (c: p. 32), *Megascolides*. Holotype W.549 (ethanol).
gravus Lee, 1959 (p. 203), *Maoridrilus*. Holotype W.210 (ethanol).

- insolitus* Erséus, 1989 (p. 559), *Limnodriloides*. Holotype W.1290 (slide).
- intermedius* Lee, 1952 (a: p. 541), *Rhododrilus*. Holotype W.486 (ethanol).
- irregularis* Lee, 1952 (c: p. 34), *Megascolides*. Holotype W.530 (ethanol).
- kapitiensis* Lee, 1959 (p. 113), *Octochaetus*. Holotype W.503 (ethanol).
- kermadecensis* Lee, 1953 (p. 50), *Acanthodrilus*. Holotype W.548 (ethanol).
- lateralis* Lee, 1959 (p. 51), *Deinodrilus*. Holotype W.515 (ethanol).
- macroseptus* Lee, 1952 (a: p. 547), *Rhododrilus*. Holotype W.481 (ethanol).
- magniovata* Read, 1975 (p. 401), *Boccardia*. Holotype W.1061 (ethanol).
- major* Stout, 1958 (p. 296), *Schizodrilus*. Syntypes W.1524 (6 slides).
- manteri* Richardson, 1959 (p. 287), *Makarabdella*. Holotype W.220 (12 slides).
- maoriana* Mason, 1976 (p. 268), *Dina*. Holotype W.1529 (78 slides).
- microgaster* Lee, 1959 (p. 165), *Rhododrilus*. Holotype W.474 (ethanol).
- minima* Lee, 1959 (p. 274), *Diporochoeta*. Holotype W.497 (ethanol).
- minus* Lee, 1952 (a: p. 550), *Rhododrilus*. Holotype W.538 (ethanol).
- minor* Lee, 1959 (p. 40), *Decachaetus*. Holotype W.540 (ethanol).
- minor* Lee, 1959 (p. 207), *Maoridrilus*. Holotype W.211 (ethanol).
- montanus* Lee, 1959 (p. 66), *Eodrilus*. Holotype W.477 (ethanol).
- montanus* Lee, 1959 (p. 209), *Maoridrilus*. Holotype W.209 (ethanol).
- nelsoni* Lee, 1959 (p. 211), *Maoridrilus*. Holotype W.506 (ethanol).
- nothofagi* Stout, 1958 (p. 289), *Pristina*. Syntypes W.1527 (8 slides).
- nothofagi* Stout, 1958 (p. 292), *Schizodrilus*. Holotype W.1525 (slide).
- notogaea* Nordheim, 1987 (p. 33), *Petrocha*. Holotype W.1180 (slide).
- novaezealandiae* Lee, 1952 (c: p. 38), *Megascolex*. Holotype W.483 (ethanol).
- otagoensis* Probert, 1976 (p. 376), *Euzonus*. Holotype W.1080 (ethanol).
- otagoensis* Westheide & Nordheim, 1985 (p. 189), *Microdorvillea*. Holotype W.1176 (slide).
- pallida* Lee, 1952 (b: p. 568), *Hoplochaetina*. Holotype W.519 (ethanol).
- pallida* Lee, 1959 (p. 345), *Spenceriella*. Holotype W.495 (ethanol).
- pallidus* Lee, 1959 (p. 67), *Eodrilus*. Holotype W.526 (ethanol).
- pallidus* Lee, 1959 (p. 213), *Maoridrilus*. Holotype W.547 (ethanol).
- papaensis* Lee, 1952 (a: p. 546), *Rhododrilus*. Holotype W.496 (ethanol).
- parvus* Lee, 1952 (b: p. 563), *Deinodrilus*. Holotype W.507 (ethanol).
- parvus* Lee, 1959 (p. 70), *Eodrilus*. Holotype W.537 (ethanol).
- parvus* Lee, 1952 (c: p. 30), *Megascolides*. Holotype W.484 (ethanol).
- pelorus* Lee, 1959 (p. 117), *Octochaetus*. Holotype W.480 (ethanol).
- polycystis* Lee, 1952 (b: p. 569), *Hoplochaetina*. Holotype W.542 (ethanol).
- polycystis* Lee, 1959 (p. 246), *Neodrilus*. Holotype W.213 (ethanol).
- raglani* Lee, 1952 (c: p. 31), *Megascolides*. Holotype W.508 (ethanol).
- robusta* Lee, 1952 (b: p. 567), *Hoplochaetina*. Holotype W.546 (ethanol).
- robustus* Lee, 1952 (a: p. 553), *Rhododrilus*. Holotype W.521 (ethanol).
- rosae* Lee, 1959 (p. 173), *Rhododrilus*. Holotype W.498 (ethanol).
- rossi* Lee, 1959 (p. 71), *Eodrilus*. Holotype W.489 (ethanol).
- ruber* Lee, 1952 (c: p. 29), *Megascolides*. Holotype W.543 (ethanol).
- rubicundus* Lee, 1959 (p. 219), *Maoridrilus*. Holotype W.518 (ethanol).
- rubicundus* Lee, 1959 (p. 309), *Megascolides*. Holotype W.520 (ethanol).
- salmoni* Lee, 1959 (p. 235), *Neochaeta*. Holotype W.212 (ethanol).
- serrata* Kudenov & Read, 1978 (p. 698), *Axiobella*. Holotype W.1088 (ethanol).

- spirilla* Lee, 1959 (p. 85), *Hoplochaetina*. Holotype W.517 (ethanol).
- stewartensis* Lee, 1959 (p. 333), *Plutellus*. Holotype W.509 (ethanol).
- subtilis* Lee, 1959 (p. 87), *Hoplochaetina*. Holotype W.500 (ethanol).
- subtilis* Lee, 1959 (p. 176), *Rhododrilus*. Holotype W.513 (ethanol).
- sutherlandi* Lee, 1952 (a: p. 544), *Rhododrilus*. Holotype W.529 (ethanol).
- sylvestris* Lee, 1952 (b: p. 560), *Octochaetus*. Holotype W.535 (ethanol).
- taita* Stout, 1956 (p. 99), *Pristina*. Syntypes W.1526 (4 slides).
- thrushi* Erséus, 1989 (p. 557), *Limnodriloides*. Holotype W.1286 (slide).
- tiritae* Winterbourn, 1969 (p. 282), *Namalycastis*. Holotype W.1015 (ethanol).
- transalpinus* Lee, 1959 (p. 223), *Maoridrilus*. Holotype W.523 (ethanol).
- tricystis* Lee, 1952 (b: p. 559), *Octochaetus*. Holotype W.514 (ethanol).
- vestalis* Paterson & Gibson, 2003 (p. 734), *Amphipolydora*. Holotype W.1522 (ethanol).
- viridis* Lee, 1952 (c: p. 28), *Megascolides*. Holotype W.504 (ethanol).
- volutus* Lee, 1959 (p. 228), *Maoridrilus*. Holotype W.492 (ethanol).
- wellingtonensis* Read, 1975 (p. 404), *Boccardia*. Holotype W.1065 (ethanol).
- wilkini* Lee, 1959 (p. 230), *Maoridrilus*. Holotype W.541 (ethanol).
- Phylum BRACHIOPODA**
- abnormis* Thomson, 1917 (p. 412), *Pachymagas*. Holotype Br.113 (dry).
- amygdala* Thomson, 1920 (a: 374), *Rhizothyris*. Holotype Br.1348 (dry).
- anceps* Thomson, 1920 (a: p. 382), *Neothyris*. Holotype Br.115 (dry).
- andrewi* Thomson, 1920 (a: p. 380), *Pachymagas*. Holotype Br.120 (dry).
- antipoda* Thomson, 1918 (a: p. 117), *Hemithyris*. Holotype Br.1262 (dry).
- bartrumi* Thomson, 1920 (a: p. 376), *Pachymagas*. Holotype Br.126 (dry).
- boehmi* Thomson, 1918 (a: p. 118), *Liothyrella*. Holotype Br.1347 (dry).
- browni* Thomson, 1915 (a: p. 402), *Magadina*. Holotype Br.46 (dry).
- buckmani* Thomson, 1918 (b: p. 22). *Amphithyris*. The dorsal valve and lophophore of the holotype, originally slide-mounted *in situ* (Thomson 1918b, fig. 29), have since been separated (February 2005) to facilitate study of the valve. The ventral valve (Thomson 1918b, fig. 35) cannot be traced. Br.80 (dry valve + slide-mounted lophophore).
- clarkei* Thomson, 1920 (a: p. 376), *Pachymagas*. Holotype Br.127 (dry).
- compressa* Neall, 1972 (p. 242), *Neothyris*. Holotype Br.1345 (dry).
- cottoni* Thomson, 1920 (a: p. 375), *Pachymagas*. Holotype Br.119 (dry).
- coxi* Thomson, 1920 (a: p. 379), *Pachymagas*. Holotype Br.1340 (dry).
- crassa* Thomson, 1920 (a: p. 372), *Rhizothyris*. Holotype Br.1359 (dry).
- curiosa* Thomson, 1915 (a: p. 399), *Rhizothyris*. Holotype Br.52 (dry).
- curta* Thomson, 1920 (a: p. 372), *Rhizothyris*. Holotype Br.1349 (dry).
- depressa* Thomson, 1918 (a: p. 117), *Hemithyris*. Holotype Br.1264 (dry).
- elliptica* Thomson, 1920 (a: p. 372), *Rhizothyris*. Holotype Br.48 (dry).
- ellipticus* Thomson, 1918 (a: p. 118), *Pachymagas*. Holotype Br.1268 (dry).
- elongata* Thomson, 1920 (a: p. 372), *Rhizothyris*. Holotype Br.1350 (dry).
- esdailei* Thomson, 1918 (a: p. 119), *Neothyris*. Holotype Br.1360 (dry).
- fortis* Thomson, 1920 (a: p. 373), *Rhizothyris*. Holotype Br.1351 (dry).
- haasti* Thomson, 1920 (a: p. 377), *Pachymagas*. Holotype Br.124 (dry).
- hectori* Thomson, 1920 (a: p. 377), *Pachymagas*. Holotype Br.1339 (dry).
- hedleyi* Thomson, 1915 (b: p. 463), *Thecidellina*. Holotype Br.123 (dry).
- huttoni* Thomson, 1916 (p. 41), *Crania*. Holotype Br.69 (dry).
- iheringi* Thomson, 1920 (a: p. 382), *Neothyris*. Holotype Br.116 (dry).
- intermedia* Thomson, 1920 (a: p. 381), *Waiparia*. Holotype Br.117 (dry).

landonensis Thomson, 1918 (a: p. 118), *Liothyrella*.
Holotype Br.1341 (dry).

lateralis Thomson, 1920 (a: p. 373), *Rhizothyris*.
Holotype Br.1352 (dry).

magna Hamilton, 1910 (p. 18), *Magellania*. Lectotype
(Allan 1932: 5) Br.1346 (dry).

mckayi Thomson, 1920 (a: p. 378), *Pachymagas*.
Holotype Br.123 (dry).

media Thomson, 1920 (a: p. 371), *Rhizothyris*. Holotype
Br.1353 (dry).

minima Thomson, 1918 (c: p. 260), *Bouchardia*.
Holotype Br.42 (dry).

morgani Thomson, 1920 (a: p. 379), *Pachymagas*.
Holotype Br.121 (dry).

neozelanica Thomson, 1918 (b: p. 17), *Liothyrella*.
Holotype Br.72 (dry).

obesa Thomson, 1920 (a: 373), *Rhizothyris*. Holotype
Br.1354 (dry).

obtusa Thomson, 1920 (b: p. 81), *Neothyris*. Holotype
Br.1272 (dry).

ovata Thomson, 1920 (a: p. 373), *Rhizothyris*. Holotype
Br.1355 (dry).

pirum Thomson, 1920 (a: p. 373), *Rhizothyris*. Holotype
Br.1356 (dry).

pulchra Thomson, 1918 (a: p. 118), *Liothyrella*. Holotype
Br.1344 (dry).

reinga Lee & Wilson, 1979 (p. 442), *Notosaria nigricans*.
Holotype Br.1361 (dry).

scutum Thomson, 1920 (a: p. 371), *Rhizothyris*. Holotype
Br.1357 (dry).

sinuata Hutton, 1873 (p. 36), *Waldhemia*. Holotype
Br.349 (dry).

speighti Thomson, 1920 (a: p. 376), *Pachymagas*.
Holotype Br.122 (dry).

squamosa Hutton, 1873 (p. 37), *Rhynchonella*. Holotype
Br.1266 (dry).

sublaevis Thomson, 1918 (a: p. 117), *Hemithyris*.
Holotype Br.1267 (dry).

suessi Hutton, 1873 (p. 37), *Terebratella*. Syntypes (3)
Br.1265, 1434 (dry).

tapirina Hutton, 1873 (p. 36), *Waldhemia*. Syntypes (3)
Br.1367, 1368 (dry).

totaraensis Thomson, 1918 (a: p. 119), *Terebratella*.
Holotype Br.1243 (dry).

trellissickensis Thomson, 1918 (a: p. 118), *Pachymagas*.
Holotype Br.1271 (dry).

triangulare Hutton, 1873 (p. 36), *Waldhemia*. Holotype

Br.118 (dry).

uttleyi Thomson, 1918 (b: p. 27), *Stethothyris*. Holotype
Br.1270 (dry).

waiparensis Thomson, 1915 (a: p. 403), *Magadina*.
Holotype Br.47 (dry).

Phylum MYXOZOA

acinum Hine, 1975 (p. 159), *Myxidium*. Holotype Pr.16
(slide).

iucundus Hine, 1977 (c: p. 158), *Myxobolus*. Syntypes
Pr.72–75 (four slides).

serum Hine, 1975 (p. 157), *Myxidium*. Holotype Pr.12
(slide).

vitiensis Laird, 1950 (b: p. 286), *Henneguya*. Holotype
Pr.100 (slide).

zealandicum Hine, 1975 (p. 154), *Myxidium*. Holotype
Pr.3 (slide).

Phylum NEMATODA

craigi Poinar, 1990 (p. 398), *Blepharomermis*. Holotype
W.1328 (slide).

giganteus Poinar & Early, 1990 (p. 404), *Aranimermis*.
Holotype W.1324 (slide).

minuta Andrews, 1974 (p. 330), *Hedruris*. Holotype
W.1042 (slide).

mynah Laird, 1951 (a: p. 8), *Microfilaria*. Holotype
W.1523 (slide).

namis Poinar, 1990 (p. 396), *Austromermis*. Holotype
W.1326 (slide).

poicilandri Ainsworth, 1990 (p. 816), *Skrjabinodon*.
Holotype W.1316 (slide).

trimorphi Ainsworth, 1990 (p. 815), *Skrjabinodon*.
Holotype W.1308 (slide).

zealandica Poinar, Latham & Poulin, 2002 (p. 228),
Thaumamermis. Holotype W.1509 (slide).

Phylum NEMATOMORPHA

dimorphus Poinar, 1991 (p. 1593), *Gordius*. Holotype
W.1332 (glycerin).

nigromaculatus Poinar, 1991 (p. 1594), *Euchordodes*.
Holotype W.1334 (glycerin).

zealandica Poinar & Brockerhoff, 2001 (p. 151),
Nectonema. Holotype W.1528 (slide).

Phylum NEMERTEA

rangitotoensis Gibson & Strand, 2002 (p. 3),

Vulcanonemertes. Holotype W.1511 (222 slides).

sanguinea Riser, 1998 (p. 288), *Nipponnemertes*. Holotype
W.1456 (15 slides).

Phylum PLATYHELMINTHES

aetobatidis Robinson, 1959 (p. 390), *Prochristianella*.

Holotype W.203 (five slides).

allisonae Schmidt, 1980 (p. 7), *Baerietta*. Holotype

W.1121 (slide).

ashleyi Fyfe, 1953 (p. 8), *Geoplana*. Holotype W.101

(ethanol + three slides).

aucklandica Dendy, 1909 (p. 673), *Geoplana*. Not *G.*

aucklandica Dendy, 1901 = *G. marrineri* Dendy, 1911.

Lectotype (Fyfe 1953: 8) W.100 (ethanol).

australis Allison, 1979 (p. 16), *Curtuteria*. Holotype

W.1108 (slide).

carnleyi Fyfe, 1953 (p. 9), *Artioposthia*. Holotype W.102

(ethanol + nine slides).

chalarosomum Alexander, 1963 (p. 123),

Calyptrobothrium. Holotype W.222 (slide).

chalinolobi Andrews & Daniel, 1974 (p. 334),

Hymenolepis. Holotype W.1044 (four slides).

coenoforum Alexander, 1963 (p. 135), *Echinobothrium*.

Holotype W.226 (slide).

contorta Hine, 1977 (b: p. 145), *Nippotaenia*. Holotype

W.1032 (slide).

coronatum Robinson, 1959 (p. 384), *Echinobothrium*.

Holotype W.202 (two slides).

decidua Hine, 1977 (b: p. 151), *Amurotaenia*. Holotype

W.1051 (slide).

decidua Ainsworth, 1985 (p. 131), *Baerietta*. Holotype

W.1172 (two slides).

fortis Sluys & Kawakatsu, 2001 (p. 167), *Cura*. Holotype

W.1495 (12 slides).

fragilis Hine, 1977 (b: p. 150), *Nippotaenia*. Holotype

W.2043 (slide).

fuscus Fyfe, 1953 (p. 12), *Coleocephalus*. Holotype W.104

(20 slides).

geniagni Howell, 1966 (p. 24), *Neocreadium*. Holotype

W.234 (slide).

isopodicola Blair & Williams, 1987 (p. 1156), *Kronborgia*.

Holotype W.1185 (38 slides).

isuri Robinson, 1959 (p. 388), *Gymnorhynchus*. Holotype

W.198 (ethanol + eight slides).

kaikourensis Holleman, 1998 (p. 64), *Anonymus*.

Holotype W.1445 (slide).

leoformum Alexander, 1963 (p. 128), *Clydonobothrium*.

Holotype W.223 (slide).

leiolopismae Allison & Blair, 1987 (p. 368), *Dolichosaccus*

(*Lecithopyge*). Holotype W.1191 (slide).

macrocephalum Alexander, 1963 (p. 130), *Pentaloculum*.

Holotype W.224 (slide).

marrineri Dendy, 1911 (p. 100), *Geoplana*. Replacement

name for *Geoplana aucklandica* Dendy, 1909 not

Dendy 1901 (preoccupied). Lectotype (Fyfe 1953: 8)

W.100 (ethanol).

megacotylosum Andrews, 1977 (p. 99), *Lyperosomum*.

Holotype W.1086 (ethanol).

multivirilis Holleman, 1998 (p. 62), *Anonymus*. Holotype

W.1442 (slide).

philippae Hine, 1977 (d: p. 164), *Deretrema*. Holotype

W.1024 (slide).

ranuii Fyfe, 1953 (p. 10), *Geoplana*. Holotype W.103

(ethanol + three slides).

tadornae Bisset, 1977 (p. 366), *Notocotylus*. Holotype

W.1091 (slide).

thyrstitae Robinson, 1959 (p. 385), *Gymnorhynchus*

(*Molicola*). Holotype W.199 (two slides).

tylotocephalum Alexander, 1963 (p. 133), *Calliobothrium*.

Holotype W.225 (three slides).

wedli Robinson, 1959 (p. 381), *Acanthobothrium*.

Holotype W.194 (ethanol + eight slides).

zealandicum Hine, 1977 (d: p. 166), *Coitocaecum*.

Holotype W.1028 (slide).

Phylum PORIFERA

akaroa Cook & Bergquist, 1999 (p. 550), *Ircinia*.

Holotype Por.446 (ethanol).

ambigua Bergquist & Fromont, 1988 (p. 36), *Desmacella*.

Holotype Por.92 (ethanol).

anchorata Bergquist & Fromont, 1988 (p. 72), *Pronax*.

Holotype Por.100 (ethanol).

anisostromyloxea Bergquist & Fromont, 1988 (p. 66),

Hymedesmia. Holotype Por.98 (ethanol).

arenaria Bergquist, 1968 (p. 45), *Stelletta*. Holotype

Por.20 (ethanol).

areolata Bergquist & Fromont, 1988 (p. 70), *Phorbas*.

Holotype Por.107 (ethanol).

australiensis Bergquist, 1970 (p. 14), *Axinella*. Holotype

Por.18 (ethanol).

australiensis Bergquist, 1968 (p. 27), *Suberites*. Holotype

Por.17 (ethanol).

australis Bergquist, 1970 (p. 20), *Pseudaxinella*. Holotype

Por.26 (ethanol).

australis Bergquist, 1972 (p. 128), *Stylocordyla*. Holotype

Por.33 (ethanol).

australis Bergquist & Fromont, 1988 (p. 68), *Stylopus*.

Holotype Por.106 (ethanol).

- lyncurium* var. *australis* Kirk, 1911 (p. 574), *Tethya*.
Lectotype (Fell 1950: 10. Recorded as 'solitary holotype', yet Kirk recorded five specimens) Por.703 (two slides).
- bactriana* Cook & Bergquist, 2000 (p. 395),
Semitaspongia. Holotype Por.458 (ethanol).
- bathamae* Kelly-Borges & Bergquist, 1997 (p. 398),
Acanthopolymastia. Holotype Por.68 (wax block).
- bathamae* Bergquist & Warne, 1980 (p. 26), *Callyspongia*.
Holotype Por.80 (ethanol).
- battershilli* Bergquist & Fromont, 1988 (p. 61), *Tedania*.
Holotype Por.96 (ethanol).
- beresfordae* Cook & Bergquist, 1996 (p. 21),
Psammocinia. Holotype Por.433 (ethanol).
- brondstedii* Bergquist & Fromont, 1988 (p. 97), *Antho*.
Holotype Por.111 (ethanol).
- brondstedii* Bergquist & Warne, 1980 (p. 14), *Haliclona*.
Holotype Por.72 (ethanol).
- coccinea* Bergquist, 1961 (p. 38), *Microcionia*. Holotype
Por.10 (ethanol).
- coerulea* Bergquist, 1967 (p. 165), *Halichondria*. Holotype
Por.137 (ethanol).
- columna* Bergquist & Fromont, 1988 (p. 84), *Myxilla*.
Holotype Por.109 (dry).
- compressa* Bergquist, 1970 (p. 29), *Raspailia*. Holotype
Por.30 (ethanol).
- confertus* Kelly-Borges & Bergquist, 1994 (p. 313),
Aaptos. Holotype Por.135 (ethanol).
- contorta* Bergquist & Fromont, 1988 (p. 105),
Dictyociona. Holotype Por.115 (ethanol).
- conulosa* Bergquist, 1968 (p. 49), *Stelletta*. Holotype Por.22
(ethanol).
- conulosa* Bergquist & Fromont, 1988 (p. 38),
Strongylacidon. Holotype Por.94 (ethanol).
- coriocrassus* Bergquist & Fromont, 1988 (p. 111),
Rhaphidophlus. Holotype Por.113 (ethanol).
- crisagalli* Bergquist, 1961 (p. 33), *Dysidea*. Holotype
Por.290 (dry).
- cristata* Cook & Bergquist, 2001 (p. 37), *Spongia*
(*Heterofibria*). Holotype Por.438 (ethanol).
- crocea* Kelly-Borges & Bergquist, 1997 (p. 378),
Polymastia. Holotype Por.62 (ethanol).
- cupuloides* Bergquist, 1961 (p. 42), *Suberites*. Holotype
Por.2 (ethanol).
- dendyi* Kirk, 1895 (p. 287), *Sycon*. Lectotype (Fell 1950:
7) Por.701 (slide).
- dendyi* Bergquist & Fromont, 1988 (p. 100), *Microcionia*.
Holotype Por.114 (ethanol).
- dendyi* Bergquist, 1970 (p. 17), *Phakellia*. Holotype
Por.24 (ethanol).
- echinus* Kelly-Borges & Bergquist, 1997 (p. 376),
Polymastia. Holotype Por.67 (ethanol).
- fistulosa* Kirk, 1911 (p. 576), *Chalina*. Holotype Por.71
(two slides).
- fistulosa* Cook & Bergquist, 1999 (p. 556), *Ircinia*.
Holotype Por.451 (ethanol).
- flaccida* Bergquist, 1970 (p. 27), *Raspailia*. Holotype
Por.29 (ethanol).
- flagelliformis* Bergquist & Fromont, 1988 (p. 21),
Aegogropila. Holotype Por.88 (ethanol).
- fragilis* Bergquist & Warne, 1980 (p. 15), *Haliclona*.
Holotype Por.73 (ethanol).
- fragilis* Bergquist & Warne, 1980 (p. 23), *Sigmatocia*.
Holotype Por.79 (ethanol).
- fragilis* Bergquist, 1972 (p. 131), *Stylocordyla*. Holotype
Por.34 (ethanol).
- fulva* Bergquist & Fromont, 1988 (p. 72), *Pronax*.
Holotype Por.101 (ethanol).
- fusca* Bergquist, 1961 (p. 43), *Polymastia*. Holotype
Por.13 (ethanol).
- glabra* Bergquist, 1961 (p. 35), *Haliclona*. Holotype
Por.69 (ethanol).
- glebosa* Cook & Bergquist, 2000 (p. 391), *Semitaspongia*.
Holotype Por.457 (ethanol).
- globosum* Kelly-Borges & Bergquist, 1994 (p. 309),
Aaptos. Holotype Por.133 (ethanol).
- gorgonocephalus* Cook & Bergquist, 2001 (p. 42), *Spongia*
(*Heterofibria*). Holotype Por.441 (ethanol).
- granulosa* Bergquist, 1967 (p. 168), *Terpios*. Holotype
Por.35 (ethanol).
- hawere* Cook & Bergquist, 1996 (p. 23), *Psammocinia*.
Holotype Por.434 (ethanol).
- hentscheli* Bergquist & Fromont, 1988 (p. 24), *Carmia*.
Holotype Por.166 (ethanol).
- hirsuta* Bergquist, 1968 (p. 23), *Polymastia*. Holotype
Por.16 (ethanol).
- hirsuta* Cook & Bergquist, 1998 (p. 415), *Psammocinia*.
Holotype Por.439 (ethanol).
- incompta* Cook & Bergquist, 2000 (p. 389),
Semitaspongia. Holotype Por.459 (ethanol).
- incrustans* Bergquist, 1961 (p. 42), *Isociella*. Holotype
Por.4 (ethanol).
- incrustata* Bergquist, 1968 (p. 60), *Pachastella*. Holotype
Por.25 (ethanol).

- intermedia* Kirk, 1911 (p. 579), *Clathria*. Holotype Por.291 (two slides).
- intermedia* Kirk, 1896 (p. 208), *Leucosolenia*. Holotype Por.47 (three slides). Fell (1950: 4) designated one of the slides of sections as lectotype, but there is no indication from the original description that there was more than one original specimen.
- intermedia* Bergquist, 1961 (p. 36), *Phorbas*. Holotype Por.1 (ethanol).
- irregularis* Bergquist & Warne, 1980 (p. 29), *Callyspongia*. Holotype Por.81 (ethanol).
- isodictyale* Bergquist, 1961 (p. 34), *Haliclona*. Holotype Por.5 (ethanol).
- kaikoura* Bergquist & Warne, 1980 (p. 17), *Haliclona*. Holotype Por.74 (ethanol).
- lamellata* Bergquist & Fromont, 1988 (p. 94), *Sigmarotula*. Holotype Por.110 (ethanol).
- laxa* Kirk, 1896 (p. 208), *Leucosolenia*. Holotype Por.48 (four slides). Fell (1950: 4) designated one of the slides as lectotype, but there is no indication from the original description that there was more than one original specimen.
- lissosclera* Bergquist & Fromont, 1988 (p. 106), *Clathria*. Holotype Por.112 (ethanol).
- lissostyla* Bergquist & Fromont, 1988 (p. 68), *Stylopus*. Holotype Por.105 (ethanol).
- lithodes* Bergquist, 1968 (p. 46), *Stelletta*. Holotype Por.21 (ethanol).
- lorum* Kelly-Borges & Bergquist, 1997 (p. 374), *Polymastia*. Holotype Por.61 (ethanol).
- macrostrongyla* Bergquist & Fromont, 1988 (p. 74), *Hamigera*. Holotype Por.102 (ethanol).
- macrotoxa* Bergquist & Fromont, 1988 (p. 117), *Axociella*. Holotype Por.119 (ethanol).
- mamillatum* Bergquist & Fromont, 1988 (p. 37), *Desmacidon*. Holotype Por.93 (ethanol).
- manipulatus* Cook & Bergquist, 2001 (p. 44), *Spongia* (*Heterofibria*). Holotype Por.450 (ethanol).
- maorimotu* Cook & Bergquist, 1998 (p. 419), *Psammocinia*. Holotype Por.445 (ethanol).
- maxima* Bergquist & Warne, 1980 (p. 17), *Haliclona*. Holotype Por.75 (ethanol).
- microsigma* Bergquist & Fromont, 1988 (p. 25), *Paresperella*. Holotype Por.89 (ethanol).
- microstrongyla* Bergquist & Fromont, 1988 (p. 66), *Hymedesmia*. Holotype Por.99 (ethanol).
- mokohinau* Cook & Bergquist, 2001 (p. 40), *Spongia* (*Heterofibria*). Holotype Por.440 (ethanol).
- morei* Bergquist, 1961 (p. 40), *Halichondria*. Holotype Por.8 (ethanol).
- nigra* Bergquist, 1968 (p. 55), *Erylus*. Holotype Por.23 (ethanol).
- nigra* Bergquist, 1967 (p. 167), *Eurypon*. Holotype Por.162 (ethanol).
- nigrachorda* Cook & Bergquist, 2000 (p. 393), *Semitaspongia*. Holotype Por.456 (ethanol).
- novaezealandiae* Bergquist, 1961 (p. 45), *Corticella*. Holotype Por.7 (ethanol).
- novaezealandiae* Bergquist & Fromont, 1988 (p. 82), *Naniupi*. Holotype Por.104 (ethanol).
- novaezealandiae* Bergquist & Warne, 1980 (p. 37), *Xestospongia*. Holotype Por.86 (ethanol).
- oliveri* Kirk, 1911 (p. 577), *Toxochalina*. Holotype Por.83 (dry).
- oxeata* Bergquist & Fromont, 1988 (p. 113), *Ophlitaspongia*. Holotype Por.117 (ethanol).
- papillata* Cook & Bergquist, 1998 (p. 418), *Psammocinia*. Holotype Por.442 (ethanol).
- papillosa* Cook & Bergquist, 1996 (p. 31), *Thorectandra*. Holotype Por.437 (ethanol).
- parietalioides* Bergquist, 1961 (p. 37), *Adocia*. Holotype Por.9 (ethanol).
- pedicellatum* Kirk, 1898 (p. 313), *Sycon*. Lectotype (Fell 1950: 6) Por.700 (slide).
- pepo* Kelly-Borges & Bergquist, 1997 (p. 385), *Polymastia*. Holotype Por.544 (ethanol).
- perforodorsa* Cook & Bergquist, 1998 (p. 419), *Psammocinia*. Holotype Por.444 (ethanol).
- prostrata* Bergquist, 1970 (p. 22), *Acanthoclada*. Holotype Por.27 (ethanol).
- pulvinata* Cook & Bergquist, 2000 (p. 394), *Semitaspongia*. Holotype Por.454 (ethanol).
- punctata* Bergquist & Warne, 1980 (p. 17), *Haliclona*. Holotype Por.76 (ethanol).
- purpurescens* Bergquist & Fromont, 1988 (p. 62), *Tedania*. Holotype Por.97 (ethanol).
- ramosa* Bergquist & Fromont, 1988 (p. 87), *Ectyomyxilla*. Holotype Por.108 (ethanol).
- reticulata* Bergquist & Fromont, 1988 (p. 113), *Ophlitaspongia*. Holotype Por.118 (ethanol).
- reticulata* Cook & Bergquist, 1996 (p. 28), *Thorecta*. Holotype Por.436 (ethanol).
- reversa* Kirk, 1911 (p. 575), *Reniera*. Lectotype (Fell 1950: 11) Por.84 (dry).
- rhabderemioides* Bergquist, 1961 (p. 40), *Biemna*. Holotype Por.11 (ethanol).

rosea Kelly-Borges & Bergquist, 1994 (p. 311), *Aaptos*. Holotype Por.134 (ethanol).
rosea Kirk, 1896 (p. 209), *Leucosolenia*. Lectotype (Fell 1950: 4) Por.49 (slide).
rubens Bergquist, 1961 (p. 38), *Microciona*. Holotype Por.3 (ethanol).
rubens Kelly-Borges & Bergquist, 1997 (p. 381), *Polymastia*. Holotype Por.63 (ethanol).
rubrum Kirk, 1911 (p. 580), *Clathriodendron*. Syntypes Por.332 (based on three specimens: five slides).
rufescens Bergquist & Fromont, 1988 (p. 32), *Biemna*. Holotype Por.87 (ethanol).
sabulosa Bergquist & Warne, 1980 (p. 18), *Haliclona*. Holotype Por.77 (ethanol).
sinclairae Bergquist & Fromont, 1988 (p. 54), *Paracornulum*. Holotype Por.91 (ethanol).
spatulosa Bergquist & Fromont, 1988 (p. 55), *Coelocarteria*. Holotype Por.90 (ethanol).
spherodigitata Bergquist, 1970 (p. 37), *Hymeniacion*. Holotype Por.32 (ethanol).
spinostylota Bergquist & Fromont, 1988 (p. 59), *Tedania*. Holotype Por.95 (ethanol).
stellata Bergquist & Warne, 1980 (p. 32), *Callyspongia*. Holotype Por.85 (ethanol).
stellata Bergquist, 1961 (p. 41), *Rhaderemia*. Holotype Por.12 (ethanol).
subaspera Cook & Bergquist, 1999 (p. 553), *Ircinia*. Holotype Por.448 (ethanol).
tapetum Kelly-Borges & Bergquist, 1997 (p. 372), *Polymastia*. Holotype Por.65 (ethanol).
tarangaensis Bergquist & Fromont, 1988 (p. 74), *Hamigera*. Holotype Por.103 (ethanol).
tasmani Bergquist & Fromont, 1988 (p. 22), *Carmia*. Holotype Por.85 (ethanol).
tenacior Bergquist, 1961 (p. 34), *Haliclona*. Holotype Por.6 (ethanol).
tentum Kelly-Borges & Bergquist, 1994 (p. 307), *Aaptos*. Holotype Por.132 (ethanol).
toxitenuis Bergquist & Fromont, 1988 (p. 117), *Axociella*. Holotype Por.120 (ethanol).
umbraculum Kelly-Borges & Bergquist, 1997 (p. 380), *Polymastia*. Holotype Por.66 (ethanol).
undulans Cook & Bergquist, 1999 (p. 559), *Ircinia*. Holotype Por.447 (ethanol).
verrucosa Cook & Bergquist, 1996 (p. 26), *Psammocinia*. Holotype Por.435 (ethanol).
villosus Kelly-Borges & Bergquist, 1997 (p. 393),

Tylexocladus. Holotype Por.561 (ethanol).

zona Kirk, 1895 (p. 289), *Lamontia*. Lectotype (Fell 1950: 777) Por.331 (slide).

Phylum SIPUNCULA

saprophagicum Gibbs, 1987 (p. 135), *Phascolosoma*. Holotype W.1182 (ethanol).

temporariae Edmonds, 1976 (p. 217), *Phascolion*. Holotype W.1082 (ethanol).

tortum Edmonds, 1976 (p. 218), *Phascolion*. Holotype W.1084 (ethanol).

Type Material Missing

Phylum ANNELIDA

Type specimens of the following species of earthworms were listed as absent by R.K. Dell (2 March 1966) after K.E. Lee's earthworm collection was received by the museum in early 1966.

aduncocystis Lee, 1952a (p. 552), *Rhododrilus*.

agathis Lee, 1959 (p. 145), *Rhododrilus*.

attenuatus Lee, 1952a (p. 549), *Rhododrilus*.

brucei Lee, 1952b (p. 562), *Octochaetus*.

dissimilis Lee, 1959 (p. 243), *Neodrilus*.

dobsoni Lee, 1959 (p. 155), *Rhododrilus*.

edwardsi Lee, 1959 (p. 245), *Neodrilus*.

egmonti Lee, 1952c (p. 43), *Perionyx*.

fuscus Lee, 1959 (p. 202), *Maoridrilus*.

micros Lee, 1959 (p. 66), *Eodrilus*.

montanus Lee, 1959 (p. 52), *Deinodrilus*.

robustus Lee, 1959 (p. 93), *Leucodrilus*.

ruber Lee, 1959 (p. 217), *Maoridrilus*.

rubra Lee, 1959 (p. 84), *Hoplochaetina*.

ultimus Lee, 1959 (p. 227), *Maoridrilus*.

violaceus Lee, 1959 (p. 41), *Decachaetes*.

Type specimens of the following two earthworm species were neither listed as absent by Dell (2 March 1966, pasted on p. 7 of worm register) nor registered subsequent to receipt of the Lee Collection, so presumably they were never received with it.

gravus Lee, 1959 (p. 181), *Sylvodrilus*.

obtusa Lee, 1952 (c: p. 41), *Diporochoeta*.

Specimens of the following three leech species were originally deposited in collections of the Department of Zoology, Victoria University of Wellington. None of them is included in a list of type and other material transferred to the Dominion Museum from Victoria University (Te Papa Archives MU000511/1/1, 2).

benhami Mason, 1976 (p. 265), *Hirudobella*.

eptatreti Richardson, 1953 (p. 285), *Bdellamaris*.

Following enquiries, 38 slides of sections of several specimens were presented by the author in 1991, none of which, however, is labelled as having type status (W.1366–1369).

parkeri Richardson, 1949 (p. 5), *Branchellion*.

Phylum APICOMPLEXA

salariasi Laird, 1951 (a: p. 3), *Haemogregarina*. This species had a previously allocated register number 'Z16', but the type was never received at the museum.

Phylum BRACHIOPODA

buttoni Thomson, 1915, *Pachymagus*. Thomson (1915a: 403) stated that the holotype was in the Dominion Museum, but I could not find any specimen with the given dimensions (43 x 41 x 23 mm) among the paratypes from the type locality.

Phylum MYXOZOA

tripterygii Laird, 1953 (p. 108), *Sphaeromyxa*. Laird (1953: 111) stated that the holotype slide (assigned number 'Z104') was deposited at the Dominion Museum, though there is no evidence that it was ever received.

Phylum PORIFERA

Fell (1950) reported that no type material of the following sponge species had been located.

conica Kirk, 1909 (p. 539), *Stylohalina*.

ornatum Kirk, 1898 (p. 314), *Sycon*.

Primary types of the following seven sponge species were assigned museum registration numbers, but there is no evidence that they were ever received at the museum.

erecta Brondsted, 1924 (Bergquist 1970: 13 – neotype), *Hymeniacidon*.

flabellata Bergquist, 1970 (p. 23), *Biemna*.

hispida Bergquist, 1970 (p. 31), *Eurypon*.

multitoxaformis Bergquist & Fromont, 1988 (p. 118), *Axociella*.

stelliderma Bergquist & Warne, 1980 (p. 18 – holotype and 'neotype' [sic]), *Haliclona*.

transiens Bergquist & Fromont, 1988 (p. 48), *Coelosphaera*.

venustina Bergquist, 1961 (p. 37), *Adocia*.

Phylum RETARIA

corbuliformis Chapman, 1906 (p. 84), *Brachysiphon*. 'Holotype' listed in Colonial Museum register under 'For' (i.e. Pr.) 88.

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