

List of Korean Species of Freshwater Rotifera

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한국 담수산 윤형동물의 총목록

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적 요

Hada(1936)가 처음으로 한국산 윤형동물 14종의 목록을 발표한 이후에 이루어진 한국산 윤형동물에 대한 연구는 내·외국인에 의한 것 모두가 육수학적 연구 과정 중에 생물상을 조사하거나 동물상 조사 결과 얻어진 종의 목록 수준의 것들이어서 분류학적 연구는 지금까지 전무했다고 할 수 있다. 이에 저자는 앞으로의 분류학적 연구에 기초자료로 이용하고자 1988년 이전까지 보고된 한국산 윤형동물 총 145종의 분류목록을 문헌과 함께 작성하였다.

Key words: list of species, Rotifera, Korea.

INTRODUCTION

Hada(1936) recorded 14 species of Korean Rotifera for the first time in the process of faunal study of Söho in Suwon. Thereafter, studies on this taxon have been continued by such foreign and Korean specialists as Sato(1939, 1941), Ueno(1941), Yamamoto(1941, 1953), Yamamoto(1944), Mizuno *et al.* (1980), Turner(1986), Cho(1965, 1966, 1968, 1976, 1979, 1981), Kim(1968), Kang(1969), Hong *et al.* (1969), Kim and Park(1969), Cho and Ra(1971), Hong and Ra(1975), Cho and Mizuno(1977), Cho *et al.* (1978), Mizuno and Cho(1980), Kim *et al.* (1987). However, most of these studies have not been accomplished from taxonomic purposes and the reported species of Rotifera are only lists resulted from examinations of limnological conditions. So, taxonomic works on Korean Rotifera have been poorly performed. In order to provide the basis of further taxonomic research, the author made a list of 145 species of Korean freshwater Rotifera reported until 1988 with references. The classification system for this taxonomic list was based on Pontin(1978) and Ruttner-Kolisko (1974).

LIST OF SPECIES

Phylum Rotifera
 Class Monogononta
 Order Ploima
 Family Brachionidae

1. *Epiphanes senta* (O.F. Müller, 1773)
 Turner(1986).
2. *Brachionus* sp.
 Cho *et al.*(1978).
3. *Brachionus patulus* (O.F. Müller, 1786)
 Hada(1936); Yamamoto(1953); Cho and Ra(1971); Cho *et al.*(1978); Mizuno *et al.*(1980).
4. *Brachionus angularis* Gosse, 1851
 Sato(1941); Yamamoto(1953); Cho(1976); Cho and Mizuno(1977); Cho *et al.*(1978); Mizuno *et al.*(1980).
5. *Brachionus angularis* var. *chelonis* Ahlstrom, 1940
 Cho *et al.*(1978).
6. *Brachionus budapestinensis* Daday, 1885
 Yamamoto(1953); Hong and Ra(1975); Cho *et al.*(1978).
7. *Brachionus calyciflorus* Pallas, 1766
 (= *B. calyciflorus* var. *dorcas* Gosse, 1851)
 Yamamoto(1953); Cho(1965, 1966, 1976); Hong *et al.*(1969); Kim and Park(1969); Cho and Ra(1971); Hong and Ra(1975); Cho and Mizuno(1977); Cho *et al.*(1978); Mizuno *et al.*(1980); Turner(1986).
8. *Brachionus calyciflorus* f. *amphiceros* (Ehrenberg, 1838)
 [= *B. calyciflorus* var. *dorcas* f. *spinosus* (Wierzejski, 1891)]
 Yamamoto(1953); Cho *et al.*(1978).
9. *Brachionus calyciflorus* f. *anuraeiformis* (Brehm, 1909)
 Yamamoto(1953); Cho *et al.*(1978).
10. *Brachionus caudatus* Barrois and Daday, 1894
 Turner(1986).
11. *Brachionus diversicornis* (Daday, 1883)
 Cho(1965); Cho *et al.*(1978); Turner(1986).
12. *Brachionus forficula* Wierzejski, 1891
 Yamamoto(1953); Kang(1969); Cho *et al.*(1978).
13. *Brachionus leydigi* Cohn, 1862
 Turner(1986).
14. *Brachionus leydigi rotundus* Rousselet, 1907
 Turner(1986).
15. *Brachionus quadridentatus* Hermann, 1783(= *Brachionus bakeri* O.F. Müller, 1786)
 Sato(1941); Yamamoto(1953); Kim and Park(1969); Cho and Ra(1971); Cho(1965, 1976); Cho and

Mizuno(1977); Mizuno *et al.*(1980).

16. *Brachionus quadridentatus brevispinus* (Ehrenberg, 1832)
[=*B. quadridentatus* var. *brevispinus* (Ehrenberg, 1832)]
Yamamoto(1953); Cho *et al.*(1978).
17. *Brachionus urceolaris* (O.F. Müller, 1773)
Sato(1941); Yamamoto(1953); Hong *et al.*(1969); Cho and Ra(1971); Cho(1976); Cho *et al.*(1978);
Turner(1986).
18. *Brachionus rubens* Ehrenberg, 1838
Hong *et al.*(1969); Kang(1969); Kim and Park(1969); Cho and Mizuno(1977); Cho *et al.*(1978); Mizuno
et al.(1980).
19. *Brachionus plicatilis* (O.F. Müller, 1786)
Hong *et al.*(1969); Cho(1976); Cho *et al.*(1978); Mizuno and Cho(1980); Mizuno *et al.*(1980).
20. *Brachionus dimidiatus* (Bryce, 1931)
Cho *et al.*(1978).
21. *Brachionus variabilis* (Hempel, 1896)
Turner(1986).
22. *Brachionus falcatus* Zacharias, 1898
Mizuno *et al.*(1980).
23. *Keratella cochlearis* (Gosse, 1851)
Hada(1936); Yamamoto(1941, 1953); Yamamoto(1944); Cho(1965, 1966, 1968, 1976, 1979, 1981);
Hong *et al.*(1969); Kang(1969); Kim and Park(1969); Cho and Ra(1971); Cho and Mizuno(1977); Mizuno
et al.(1980); Turner(1986).
24. *Keratella cochlearis* var. *macracantha* (Lauterborn, 1898)
Kang(1969); Cho *et al.*(1978).
25. *Keratella tecta* (Gosse, 1886)
[=*K. cochlearis* f. *tecta* (Gosse, 1886), *K. cochlearis* var. *tecta* (Gosse, 1886), *K. cochlearis* var. *tecta* f.
micracantha (Lauterborn, 1900)]
Hada(1936); Ueno(1941); Yamamoto(1941, 1953); Cho(1966); Cho *et al.*(1978); Turner(1986).
26. *Keratella macracantha* (Lauterborn, 1900)
Yamamoto(1953).
27. *Keratella eichwaldi* (Levander, 1894)
[=*K. cruciformis* f. *eichwaldi* (Levander, 1894)]
Yamamoto(1953); Cho(1976).
28. *Keratella cruciformis* (Thompson, 1892)
Hong and Ra(1975); Cho(1976); Mizuno and Cho(1980); Mizuno *et al.*(1980).
29. *Keratella hiemalis* Carlin, 1943
Turner(1986).
30. *Keratella quadrata* (O.F. Müller, 1786)
Yamamoto(1941, 1953); Cho(1965); Turner(1986).
31. *Keratella valga* (Ehrenberg, 1834)
Sato(1941); Yamamoto(1953); Cho(1965, 1966); Cho and Ra(1971); Cho *et al.*(1978); Mizuno *et al.*(1980).

32. *Keratella valga* f. *tropicaasymmetrica* Ueno, 1938
Cho(1976).
33. *Keratella tropica* f. *reducta* (Fadew, 1927)
[=*K. valga* f. *monstrosa* (Barrois and Daday, 1894)]
Yamamoto(1953); Cho *et al.*(1978).
34. *Keratella tropica* (Apstein, 1907) (= *K. valga* f. *tropica* Apstein, 1907)
Yamamoto(1953).
35. *Keratella serrulata* (Ehrenberg, 1838)
Yamamoto(1953).
36. *Kellicottia longispina* (Kellicott, 1879)
Cho *et al.*(1978).
37. *Notholca acuminata* (Ehrenberg, 1832)
Yamamoto(1953); Cho and Ra(1971).
38. *Notholca labis* Gosse, 1887
Yamamoto(1953); Turner(1986).
39. *Euchlanis alata* Voronkov, 1912
Yamamoto(1953).
40. *Euchlanis deflexa* Gosse, 1851
Turner(1986).
41. *Euchlanis dilatata* Ehrenberg, 1832
Yamamoto(1953); Cho(1966); Cho *et al.*(1978); Mizuno *et al.*(1980).
42. *Euchlanis incisa* Carlin, 1939 (= *E. triquetra* Ehrenberg, 1838)
Yamamoto(1953).
43. *Euchlanis* sp.
Ueno(1941).
44. *Dipleuchlanis propatula* (Gosse, 1886)
Mizuno *et al.*(1980).
45. *Mytilina trigona* (Gosse, 1851)
Yamamoto(1953).
46. *Mytilina ventralis* (Ehrenberg, 1832)
Yamamoto(1953); Cho *et al.*(1978).
47. *Mytilina ventralis brevispina* Ehrenberg, 1832
(= *M. ventralis* var. *brevispina* Ehrenberg, 1832)
Hada(1936).
48. *Trichotria tetractis* (Ehrenberg, 1830)
Hada(1936); Yamamoto(1953); Turner(1986).
49. *Trichotria tetractis truncata* (Whitelegge, 1889)
Yamamoto(1953).
50. *Trichotria pocillum* (O.F. Müller, 1776)
Cho(1981).
51. *Colurella* sp.
Hong and Ra(1975).

52. *Colurella adriatica* (Ehrenberg, 1831) [= *C. lepta* (Gosse, 1887)]
Yamamoto(1953).
53. *Colurella obtusa* (Gosse, 1886)
Yamamoto(1953); Hong *et al.*(1969); Cho *et al.*(1978); Cho(1979).
54. *Colurella bicuspidata* (Ehrenberg, 1832)
Cho *et al.*(1978).
55. *Lepadella acuminata* (Ehrenberg, 1834)
Yamamoto(1953); Turner(1986).
56. *Lepadella oblonga* (Harring, 1913)
Cho and Ra(1971); Cho *et al.*(1978); Mizuno *et al.*(1980).
57. *Lepadella (Xenolepadella) borealis* Harring, 1916 (= *L. borealis* Harring, 1916)
Hada(1936); Yamamoto(1953).
58. *Lepadella quadricarinata* (Stenroos, 1898)
Cho *et al.*(1978).
59. *Lepadella ovalis* (O.F. Müller, 1786)
Ueno(1941); Yamamoto(1953).
60. *Lepadella* sp.
Kang(1969); Hong and Ra(1975).
61. *Macrochaetus collinsi* (Gosse, 1867)
Cho *et al.*(1978).
62. *Anuraeopsis* sp.
Hada(1936).
63. *Anuraeopsis fissa* (Gosse, 1851)
Cho *et al.*(1978).
64. *Rhinoglana frontalis* Ehrenberg, 1853
Cho *et al.*(1978).

Family Lecanidae

65. *Lecane* sp.
Kang(1969); Cho *et al.*(1978).
66. *Lecane brachydactyla* (Stenroos, 1898)
Ueno(1941); Yamamoto(1953).
67. *Lecane curvicornis* (Murray, 1913)
Cho(1968).
68. *Lecane luna* (O.F. Müller, 1776)
Hada(1936); Yamamoto(1953); Cho(1966); Kim(1968); Cho *et al.*(1978).
69. *Lecane papuana* (Murray, 1913)
Cho and Ra(1971).
70. *Lecane ludwigi* (Eckstein, 1893)
Yamamoto(1953); Cho *et al.*(1978).
71. *Lecane (Monostyla)* sp.

- Kang(1969); Cho and Ra(1971); Cho(1979).
72. *Lecane (Monostyla) acus* (Harring, 1913)
Cho(1981).
73. *Lecane (Monostyla) arcuata* (Bryce, 1891) (= *M. arcuata* Bryce, 1891)
Yamamoto(1953).
74. *Lecane (Monostyla) bulla* (Gosse, 1851)
Kim and Park(1969).
75. *Lecane (Monostyla) lunaris crenata* (Harring, 1913)
[= *M. crenata* (Harring, 1913)]
Yamamoto(1953).
76. *Lecane (Monostyla) pygmaea* (Daday, 1897)
Cho *et al.*(1978).
77. *Lecane (Monostyla) hamata* (Stokes, 1896) (= *M. hamata* Stokes, 1896)
Yamamoto(1953); Cho *et al.*(1978).
78. *Lecane (Monostyla) quadridentata* (Ehrenberg, 1832)
Hong *et al.*(1969); Cho *et al.*(1978).
79. *Lecane (Monostyla) pyriformis* (Daday, 1905) [= *M. pyriformis* (Daday, 1905)]
Yamamoto(1953).
80. *Lecane (Monostyla) sinuata* (Hauer, 1938)
Cho *et al.*(1978).
81. *Lecane (Monostyla) lunaris* (Ehrenberg, 1832) (= *M. lunaris* Ehrenberg, 1832)
Hada (1936); Ueno(1941); Yamamoto(1953); Turner(1986).

Family Trichocercidae

82. *Trichocerca rattus* (O.F. Müller, 1776) [= *T. cristata* (Harring, 1913)]
Yamamoto(1953).
83. *Trichocerca capucina* Wierzejski and Zacharias, 1893
Hada(1936); Yamamoto(1953); Cho(1976).
84. *Trichocerca cylindrica* (Imhof, 1891)
Yamamoto(1953); Cho *et al.*(1978); Mizuno *et al.*(1980).
85. *Trichocerca elongata* (Gosse, 1886)
Hada(1936); Yamamoto(1953).
86. *Trichocerca pusilla* (Lauterborn, 1898)
Hada(1936); Yamamoto(1953).
87. *Trichocerca longiseta* (Schränk, 1802)
Yamamoto(1953); Cho(1966); Cho and Ra(1971).
88. *Trichocerca marina* (Daday, 1890)
Cho(1976).
89. *Trichocerca (Diruella) brachyura* (Gosse, 1851) [= *D. brachyura* (Gosse, 1851)]
Yamamoto(1953).
90. *Trichocerca (Diurella) porcellus* (Gosse, 1851) [= *D. porcellus* (Gosse, 1851)]

Yamamoto(1953); Cho *et al.*(1978).

91. *Trichocerca (Diurella) similis* (Wierzejski, 1893)
Yamamoto(1953); Hong and Ra(1975).
92. *Trichocerca (Diruella) tigris* (O.F. Müller, 1786) [= *D. tigris* (O.F. Müller, 1786)]
Hada(1936); Yamamoto(1953).
93. *Trichocerca (Diurella) weberi* (Jennings, 1903) [= *D. weberi* (Jennings, 1903)]
Yamamoto(1953).

Family Notommatidae

94. *Cephalodella auriculata* (O.F. Müller, 1773)
Turner(1986).
95. *Cephalodella catellina* (O.F. Müller, 1786)
Turner(1986).
96. *Cephalodella* sp.
Turner(1986).
97. *Cephalodella gibba* (Ehrenberg, 1838) [= *Diaschiza gibba* (Ehrenberg, 1838)]
Yamamoto(1953); Turner(1986).
98. *Resticula gelida* (Harring and Myers, 1922) [= *Eosphora gelida* Harring and Myers, 1922]
Turner(1986).
99. *Itura aurita* (Ehrenberg, 1830)
Turner(1986).
100. *Notommata* sp.
Yamamoto(1953).
101. *Monommata grandis* Tessin, 1890
Yamamoto(1953).
102. *Scaridium eudactylopus* Gosse, 1886
Yamamoto(1953).

Family Lindiidae

103. *Lindia (Halolindia) tecusa* Harring and Myers, 1922
Turner(1986).

Family Asplanchnidae

104. *Asplanchna* sp.
Ueno(1941); Yamamoto(1944); Cho and Mizuno(1977); Cho *et al.*(1978); Cho(1981).
105. *Asplanchna priodonta* Gosse, 1850
Hada(1936); Sato(1939, 1941); Yamamoto(1941, 1953); Cho(1965, 1966, 1968, 1976, 1979);
Kang(1969); Kim and Park(1969); Cho and Ra(1971); Hong and Ra(1975); Cho *et al.*(1978).
106. *Asplanchna herricki* De Guerne, 1880
Cho(1968); Kang(1969).

107. *Asplanchna sieboldi* (Leydig, 1854)
Mizuno *et al.*(1980).

Family Synchaetidae

108. *Ploesoma* sp.
Cho(1965); Kang(1969).
109. *Ploesoma (Bipalus) hudsoni* (Imhof, 1891) (= *P. hudsoni* Imhof, 1891)
Hada(1936).
110. *Ploesoma truncatum* (Levander, 1894)
Ueno(1941); Yamamoto(1941, 1953); Cho and Mizuno(1977); Cho *et al.*(1978); Cho(1979); Mizuno *et al.*(1980).
111. *Ploesoma triacanthum* (Bergendal, 1892)
Yamamoto(1953).
112. *Polyarthra vulgaris* Carlin, 1943 (= *P. trigla* Ehrenberg, 1834, *P. platyptera* Ehrenberg, 1838)
Hada(1936); Yamamoto(1953); Cho(1965, 1966, 1976, 1979, 1981); Hong *et al.*(1969); Kang(1969);
Cho and Ra(1971); Cho and Mizuno(1977); Cho *et al.*(1978); Turner(1978).
113. *Polyarthra euryptera* (Wierzejski, 1893)
Yamamoto(1953); Cho(1976, 1979); Cho and Mizuno(1977); Cho *et al.*(1978).
114. *Polyarthra vulgaris* f. *longiremis* (Carlin, 1943)
Turner(1986).
115. *Polyarthra dolichoptera* Idelson, 1925
Turner(1986).
116. *Polyarthra major* Burckhardt, 1900 (= *P. trigla* var. *major* Burckhardt, 1900)
Yamamoto(1941, 1953).
117. *Polyarthra remata* (Skorikov, 1896) (= *P. trigla* var. *remata* Skorikov, 1896)
Yamamoto(1941, 1953).
118. *Synchaeta longipes* Gosse, 1887
Yamamoto(1953).
119. *Synchaeta lakowitziana* Lucks, 1930
Turner(1986).
120. *Synchaeta oblonga* Ehrenberg, 1832
Yamamoto(1953); Turner(1986).
121. *Synchaeta pectinata* Ehrenberg, 1832
Turner(1986).
122. *Synchaeta tremula* (O.F. Müller, 1786)
Yamamoto(1953).
123. *Synchaeta* sp.
Yamamoto(1953); Cho(1965); Mizuno *et al.*(1980); Turner(1986).
124. *Synchaeta stylata* Wierzejski, 1893
Cho(1979).

Order Flosculariacea

Family Testudinellidae

125. *Filinia longiseta* f. *passa* (O.F. Müller, 1786)
Turner(1986).
126. *Filinia cornuta* (Weisse, 1847)
Turner(1986).
127. *Filinia longiseta* (Ehrenberg, 1834)
Yamamoto(1941, 1953); Cho(1965, 1976); Kang(1969); Cho and Ra(1971); Cho and Mizuno(1977);
Cho *et al.*(1978).
128. *Filinia terminalis* (Plate, 1886)
Turner(1986).
129. *Tetramastix opoliensis* Zacharias, 1898
Cho(1976); Cho *et al.*(1978).
130. *Testudinella parva* f. *bidentata* (Ternetz, 1892) [= *T. bidentata* (Ternetz, 1892)]
Yamamoto(1953).
131. *Testudinella patina* (Hermann, 1783)
Sato(1939); Yamamoto(1953); Cho(1965, 1966, 1968, 1976, 1979); Hong *et al.*(1969); Cho and
Ra(1971); Hong and Ra(1975); Cho *et al.*(1978); Mizuno and Cho(1980); Mizuno *et al.*(1980); Turner(1986).
132. *Testudinella clypeata* (O.F. Müller, 1786)
Mizuno and Cho(1980); Mizuno *et al.*(1980).
133. *Hexarthra mira* (Hudson, 1871) [= *Pedalia mira* (Hudson, 1871)]
Sato(1941); Cho(1965, 1976, 1979); Cho *et al.*(1978); Mizuno and Cho(1980); Mizuno *et al.*(1980).
134. *Pompholyx complanata* Gosse, 1851
Cho(1965, 1966, 1981); Cho and Ra(1971); Cho *et al.*(1978).

Family Conochilidae

135. *Conochilus natans* (Seligo, 1900)
Mizuno *et al.*(1980).
136. *Conochilus dossuarius* (Hudson, 1885) [= *Conochiloides dossuarius* (Hudson, 1885)]
Yamamoto(1953); Cho and Mizuno(1977); Cho(1979, 1981).
137. *Conochilus dossuarius* var. *coenobasis* (Skorikov, 1914)
Mizuno *et al.*(1980).
138. *Conochilus hippocrepis* (Schrank, 1830)
Ueno(1941); Yamamoto(1953).
139. *Conochilus unicornis* Rousselet, 1892
Hada(1936); Yamamoto(1953); Cho and Mizuno(1977); Cho *et al.*(1978); Cho(1979, 1981); Mizuno
et al.(1980).
140. *Conochilus* sp.
Turner(1986).

Order Collothecacea
Family Collothecidae

141. *Collotheca coronetta* (Cubitt, 1869)
Cho *et al.*(1978).

Class Digononta
Order Bdelloidea
Family Philodinidae

142. *Rotaria* sp.
Yamamoto(1953); Cho *et al.*(1978).
143. *Rotaria neptunia* (Ehrenberg, 1832)
Kim *et al.*(1987).
144. *Rotaria rotatoria* (Pallas, 1766)
Kim and Park(1969).
145. *Mniobia* sp.
Kim and Park(1969).

ABSTRACT

Hada (1936) reported the list of 14 species of Korean freshwater Rotifera for the first time. Since his report, there have been no taxonomic studies on the Korean Rotifera except some sporadic reports which contained lists of species as a partial result of limnological study. The author made a list of 145 species of Korean freshwater Rotifera reported until 1988 with references as convenient compendium for further taxonomic research.

Acknowledgment

I wish to express my sincere appreciation to Dr. Paul N. Turner. He kindly sent me Appendix 1, part of his manuscript, titled "List of rotifers known to occur in Korea". This list was very helpful to my present publication.

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RECEIVED: 26 SEPTEMBER 1989

ACCEPTED: 20 OCTOBER 1989