**Supplementary file 1**

Full list of synonyms and key publications of *Heterogen japonica*, *H. longispira*, and *Sinotaia quadrata histrica*

Supplement of New insights from museum specimens: a case of Viviparidae (Caenogastropoda: Mollusca) in Iwakawa’s collection preserved in the National Museum of Nature and Science, Tokyo

by Takumi Saito and Osamu Kagawa

***Heterogen japonica* (Martens, 1861)**

* *Paludina japonica* von Martens 1861: 44. Type locality: Japan. (original description); Reeve 1862: pl. 3, figs 13a–b; Kobelt 1879: 120, pl. 11, fig. 1; Iwakawa 1895: 356, pl. 19, fig. 1; Tanba 1897: 431.
* *Vivipara sclateri* Frauenfield 1865: 531, pl. 22, unnumbered figs. Type locality: Japan. (original description); Pilsbry 1895: 158; Kobelt 1909: 102, pl. 16, figs 3–6, 8 [part; pl. 16, fig. 9 and pl. 17, figs 3, 5 seemingly have the intermediate morphology between *H. japonica* and *H. longispira*, see discussion]; Annandale 1916: 46 [part].
* *Paludina ingallsiana* — Kobelt 1879: 124, pl. 10, fig. 14 [part; pl. 10, figs 15–16 and 18 seemingly have the intermediate morphology between *H. japonica* and *H. longispira*, see discussion]; Iwakawa 1895: 412, pl. 19, figs 8–9 [part]; Iwakawa 1897a: 86, pl. 5, fig. 7 [part] (Japanese viviparid catalogue); Iwakawa 1897b: 5.
* *Paludina oxytropis* — Kobelt 1879: 123, pl. 11, fig. 6; Iwakawa 1895: 411, pl. 19, figs 5–7; Iwakawa 1897a: 9, pl. 2, fig. 10; Iwakawa 1897b: 88, pl. 5, figs 8–12.
* *Paludina sclateri* — Kobelt 1879: 121, pl. 11, fig. 3; Tanba et al. 1883: 368; Tanba et al. 1891: 216; Iwakawa 1895: 357, pl. 19, fig. 2; Kitahara 1895: 89.
* *Paludina oxytropis* var. *japonica* — Iwakawa 1897a: 88, pl. 5, figs 15, 17 [Iwakawa noted that fig. 15 was intermediate form between *P. oxytropis oxytropis* and *P. o. japonica*]; Iwakawa 1897b: 9, pl. 2, fig. 13.
* *Paludina oxytropis* var. *sclateri* — Iwakawa 1897a: 89, pl. 5, figs 13–14, 16 [Iwakawa noted that figs 13, 16 were intermediate form between *P. oxytropis oxytropis* and *P. o. sclateri*]; Iwakawa 1897b: 9, pl. 2, figs 7–9, 11.
* *Vivipara oxytropis* — Pilsbry 1895: 158.
* *Viviparus japonicus* — Pilsbry 1902: 117, pl. 9, fig. 1; Hirase 1909: 45; Hirase 1910: 15; Hatta and Sasaki 1910: 96; Lake Biwa fisheries experimental station 1915: 30, fig. 12; Yagura 1916: 18; Iwakawa 1919: 70–71; Yamakawa 1930: pl. 48, fig. 11; Hirase 1934a: 55; Hirase 1934b: pl. 77, fig. 9; Yagura 1935: 12; Hirase and Taki 1951: pl. 77, fig. 9; Hirase and Taki 1954: pl. 77, fig. 9; Taki 1954: 186, fig. 340.
* *Viviparus japonicus* var. *iwakawa* Pilsbry 1902: pl. 9, fig. 3. Type locality: Furukawa, Rikuzen [Furukawa City, Miyagi Pref., Japan]. (original description).
* *Viviparus sclateri* — Pilsbry 1902: 118 [part]; Iwakawa 1919: 72 [part].
* *Vivipara japonica* — Kobelt 1909: 99, pl. 15, figs 1–4; Hannibal 1911: 32; Annandale 1916: 46; Kawamura 1918: 358.
* *Vivipara japonica* var. *iwakawa* — Kobelt 1909: 100, pl. 15, figs 5–7.
* *Idiopoma* (*Idiopoma*) *japonica* — Hannibal 1912: 194.
* *Viviparus japonicus iwakawa* — Iwakawa 1919: 71–72; Hirase 1934a: 55; Hirase 1934b: pl. 77, fig. 10; Yagura 1935: 13; Yamakawa 1953: pl. 46, fig. 3; Hirase and Taki 1951: pl. 77, fig. 10; Hirase and Taki 1954: pl. 77, fig. 10.
* *Viviparus japonecus* — Kanamaru 1920: 4, pl. 2, fig. 85. [sic].
* *Lecythoconcha japonica* — Annandale 1921: 401; Annandale 1922: 133.
* *Lecythoconcha sclateri* — Annandale 1921: 401, fig.3; Annandale 1922: 133.
* *Viviparus* (*Idiopoma*) *japonicus* — Hirase 1927: 1380, fig. 2653.
* *Viviparus* (*Idiopoma*) *japonicus iwakawa* — Hirase 1927: 1381, fig. 2654.
* *Vivipara japonica* var. *iwakawae* — Prashad 1928: 173, pl. 19, fig. 12. [sic].
* *Viviparus* (*Cipangopaludina*) *japonicus* — Prashad 1928: 172; Kuroda 1929: 102; Kuroda 1933: 182; Kuroda 1935: 44; Taki, 1933 in Horikoshi and Itabashi 1994: 20; Yagura 1932: 28; Yagura 1938: 16; Taki 1938: 13; Nishimura and Watabe 1943: 65; Okada and Kurasawa 1950: 151, figs 5–6, 9, 14 (in text), pl. 2, figs 5–6, pl. 4, figs a–g.
* *Viviparus* (*Dactylochlamys*) *iwakawae* — Prashad 1928: 173, pl. 19, fig. 12. [sic].
* *Viviparus* (*Viviparus*) *sclateri* — Prashad 1928: 172, pl. 19, fig. 5 [part?].
* *Viviparus* (*Cipangopaludina*) *japonicus iwakawa* — Kuroda 1929: 102; Yagura 1938: 16; Okada and Kurasawa 1950: 151, figs 7–9, 14 (in text), pl. 2, figs 7–8, pl. 4, figs a'–g'.
* *Viviparus* (*Cipangopaludina*) *japonicus sclateri* — Kuroda 1929: 102; Yagura 1932: 28.
* *Viviparus oxytropis* — Taki, 1933 in Horikoshi and Itabashi 1994: 20.
* *Viviparus iwakawai* — Taki 1946: 202, fig. 8 [sic].
* *Cipangopaludina japonica* — Hirase and Kuroda 1947a: 1161, fig. 3304; Kuroda 1947: 3; Kuroda 1948: 26; Kuroda 1955: 2; Kuroda 1963: 14; Kira 1959: 170, pl. 63, fig. 8; Oyama and Kajiyama 1959: 119, text-figs; Taki 1960: 170, pl. 80, fig. 12; Kuroda and Habe 1965a: 48, fig. 149; Habe and Kosuge 1967: 27, pl. 11, figs 3–5; Mori 1971: 302, fig. 15; Habe 1973: 313, pl. 17-1, fig. 28; Habe 1975: 63, 179, unnumbered figs; Kihira and Matsuda 1990: 29, text-figs; Nishino 1991: 3, text-figs; Kihira et al. 2003: 37, text-figs; Kihira et al. 2009: 37, text-figs; Masuda and Uchiyama 2004: 52, text-figs; Matsuda and Nakai 2006a: 499; Hirano et al. 2015: 435, figs 2–3; Nakai 2016a: 587; Van Bocxlaer and Strong 2016:
* *Cipangopaludina japonica iwakawa* — Hirase and Kuroda 1947b: 1162, fig. 3305; Habe and Kosuge 1967: 27.
* *Cipangopaludina* (*Ussuriensis*?) *japonica* — Habe 1990: 4.
* *Heterogen japonica* — Hirano et al. 2019b: 5033, figs 1, 4–5, 8.

***Heterogen longispira* (Smith, 1886)**

* *Paludina ingallsiana*— Kobelt 1879: 124, pl. 10, figs 15–18, pl. 11, fig. 2 [part; pl. 10, figs 15–16 and 18 seemingly have the intermediate morphology between *H. japonica* and *H. longispira*, see discussion]; Tanba et al. 1883: 368; Iwakawa 1895: 412 [part]; Iwakawa 1897a: 86 [part]; Iwakawa 1897b: 5 [part].
* *Paludina longispira*Smith 1886: 57–58. Type locality: Lake Biwa. (original description).
* *Viviparus sclateri*— Pilsbry 1902: 118, pl.9, fig. 4 [part; see discussion]; Hirase 1909: 45 [part?]; Hirase 1910: 15 [part?]; Lake Biwa fisheries experimental station 1915: 30, fig. 13; Iwakawa 1919: 72 [part].
* *Vivipara sclateri*— Kobelt 1909: 102, pl. 16, figs 7, 9, pl. 17, figs 1–5. [part; pl. 16, fig. 9 and pl. 17, figs 3, 5 seemingly have the intermediate morphology between *H. japonica* and *H. longispira*, see discussion]; Annandale 1916: 46 [part]; Kawamura 1918: 358, fig. 441 [part?].
* *Heterogen turris* Annandale 1921: 400, figs 1–2. Type locality: Lake Biwa. (original description); Annandale 1922: 133; Oyama and Kajiyama 1959: 119, text-figs.
* *Viviparus* (*Heterogen*) *turris*— Hirase 1927: 1381, fig. 2655.
* *Viviparus* (*Heterogen*) *longispira*— Prashad 1928: 172, pl. 19, fig. 7; Kuroda 1929: 102; Hirase 1934b: pl. 77, fig. 12; Yagura 1935: 13; Yagura 1938: 16; Hirase and Kuroda 1947c: 1161, fig. 3302.
* *Heterogen longispira*— Kuroda 1947: 3; Kuroda 1948: 26; Kuroda 1955: 2; Kira 1959: 170, pl. 63, fig. 7; Taki 1960: 170, pl. 80, fig. 13; Kuroda 1963: 14; Mori 1971: 302, fig. 11; Habe 1973: 313, pl. 17-1, fig. 27; Habe 1975: 63, 243, unnumbered figs; Habe 1990: 4; Kihira and Matsuda 1990: 32, text-figs; Nishino 1991: 4, text-figs; Kihira et al. 2003: 39, text-figs; Kihira et al. 2009: 39, text-figs; Matsuda and Nakai 2006b: 495, unnumbered fig.; Hirano et al. 2015: 435, figs 2–3; Hirano et al. 2019b: 5033, figs 1, 4–5, 8; Nakai 2016b: 583, unnumbered fig.
* *Viviparus* (*Heterogen*) *turis* — Okada and Kurasawa 1950: 153, fig. 10–11, 14, (in text), pl. 2, figs 7–8, pl. 3, figs 9–10, pl. 4, figs a"–g". [sic].
* *Viviparus longispira* — Hirase and Taki 1951: pl. 77, fig. 10; Hirase and Taki 1954: pl. 77, fig. 12; Yamakawa 1953: pl. 46, fig. 1.
* *Cipangopaludina* (*Heterogen*) *longispira* — Kuroda and Habe 1965b: 48, fig. 151; Habe and Kosuge 1967: 27, pl. 11, figs 1–2.

***Sinotaia quadrata histrica* (Gould, 1859)**

* *Paludina histrica*Gould 1859: 41. Type locality: Ousima and Loo Choo [Amami-Oshima and the Ryukyu Islands]. (original description); Gould 1862: 106; Johnson 1964: 88, pl. 43, fig. 5 (Lectotype was selected. Type locality: "presumably" Amami-O-shima).
* [?]*Paludina nitens*Reeve 1863: pl. 10, fig. 59. Type locality: Japan. (original description); Kobelt 1879: 125; Iwakawa 1895: 413.
* *Paludina ingallsiana*— Iwakawa 1897a: 86, pl. 5, figs 5–6 [part]; Iwakawa 1897b: 5, pl. 2, fig. 6 [part].
* *Viviparus histricus*— Pilsbry 1902: pl. 9, fig. 5; Kuroda 1935: 43.
* *Vivipara histrica*— Kobelt 1909: 107, pl. 16, fig. 6.
* [?]*Vivipara nitens*— Kobelt 1909: 107.
* [?]*Vivipara lacustris*— Kawamura 1918: 358.
* *Viviparus quadratus*var.? *histricus*— Hirase 1927: 1382, fig. 2656.
* *Cipangopaludina histrica*— Kuroda 1928: 32.
* *Viviparus* (*Viviparus*) *histricus*— Prashad 1928: 172; Kuroda 1929: 102; Yagura 1938: 16.
* *Viviparus histricus*— Iwakawa 1919: 72; Yamakawa 1930: pl. 48, fig. 10; Hirase 1934a: 55; Hirase 1934b: pl. 77, fig. 11; Hirase and Taki 1951: pl. 77, fig. 11; Hirase and Taki 1954: pl. 77, fig. 11.
* *Viviparus* (*Sinotaia*) *histricus*— Hirase and Kuroda 1947d: 1160, fig. 3301.
* *Taia* (*Sinotaia*) *histrica*— Kuroda 1947: 4; Taki 1960: 170, pl. 80, fig. 14.
* *Sinotaia histrica*— Kuroda 1948: 26; Kuroda 1955: 2; Kuroda 1963: 14; Kira 1959: 169, pl. 63, fig. 5; Oyama and Kajiyama 1959: 119; Mori, 1971: 302.
* *Viviparus* (*Idiopoma*) *histricus*— Okada and Kurasawa 1950: 149, figs 3–4, 12–14 (in text), pl. 1, figs 1–2, pl. 3, figs a'–g'.
* *Sinotaia quadratus histrica*— Kuroda and Habe 1965c: 48, fig. 152.
* *Sinotaia quadrata histrica*— Habe and Kosuge 1967: 27, pl. 11, fig. 8; Habe 1973: 313, pl. 17-1, fig. 26; Habe 1975: 15, 63, 259, unnumbered figs; Habe 1990: 4; Kihira and Matsuda 1990: 34, text-figs; Nishino 1991: 5, text-figs; Kihira et al. 2003: 41, text-figs; Kihira et al. 2009: 41, text-figs; Masuda and Uchiyama 2004: 54, text-figs; Hirano et al. 2015: 435, figs 2–3.

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