

List of Pseudococcidae (Hemiptera: Coccoidea) Deposited at the Insect Collection of Taiwan Agricultural Research Institute (TARI)¹

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Abstract

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A list of 72 species in 35 genera with 872 slide mounted specimens of Pseudococcidae (Hemiptera: Sternorrhyncha: Coccoidea) deposited at Insect Collection of the Taiwan Agricultural Research Institute (TARI) is provided. The specimens were mainly collected during Japanese Colonial Period. Synonyms, host plants and distribution for each species are provided.

Key words: Pseudococcidae, Taiwan Agricultural Research Institute (TARI), Slide-mounted specimens.

Introduction

Scale insects (Hemiptera: Sternorrhyncha: Coccoidea) of Taiwan have been extensively studied by several western and Japanese entomologists such as Green, Chamberlin, Ferris, Takahashi and Takagi since 1923 (Tao 1978). Most of the slide-mounted specimens of Pseudococcidae (Hemiptera: Sternorrhyncha: Coccoidea) collected by Takahashi were deposited at the Insect Collection, Division of Applied Zoology, Taiwan Agricultural Research Institute (TARI). Among them, a great number of slide-mounted specimens were types designated by Takahashi. However, a considerable number of species names used by Takahashi have been changed or synonymized with the other names. In this list, taxonomic status of all slide-mounted specimens were revised based on the modern taxonomic studies.

Materials and Methods

A total of 872 slide-mounted specimens were examined by Optical Microscope (Leitz DMRB) in this study. Distribution data of each species were compiled based on the information provided on the slide-mounted specimens deposited at the TARI Insect Collection.

Results

A total of 72 species of Pseudococcidae were identified. Among them, there were 30 species described by Takahashi. The following list provides comprehensive information on the nomenclature, synonymies, host plants, and distribution of each species. Appendix of the locality records included in the paper (Table 1) (Chu & Yamanaka 1973, 1974, 1975).

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***Allomyrmococcus acariformis* Takahashi, 1941** (Takahashi 1941; Tang 1992; Ben-Dov & Miller 2010)

Original spelling on label: *Allomyrmococcus acariformis* Takah. (10 slides)

Distribution: Thailand (Mt. Sutep).

Note: Holotype, female [collected from Thailand: Mt. Sutep, near Chiengrai, on Leguminosae, associated with an ant *Dolichoderus* sp., 05- IV-1940 by R. Takahashi (#51-5-1-1~#51-5-2-5-b)].

***Antonina crawi* Cockerell, 1900** (Tao 1989; Cockerell 1900; Ben-Dov & Miller 2010)

Original spelling on label: *Antonina crawi* Ckll. (10 slides)

Distribution: Japan (Kyoto; Loochoo: Nago); Taiwan (Taihoku: Hichiseisan, Sozan, Taihoku).

Syn.: *Antonina* (*Antonina*) *crawii* (Cockerell 1900).

***Antonina graminis* (Maskell, 1897)** (Maskell 1897b; Cockerell 1899; Green 1908; Tao 1989; Ben-Dov & Miller 2010)

Original spelling on label: *Antonina indica* Green. (11 slides)

Distribution: India; Palau Isls. (Korror); Taiwan (Taichu: Kori; Taihoku); USA (Saipan: Garapan).

Syn.: *Sphaerococcus graminis* Maskell, 1897; *Chaetococcus graminis* Maskell, 1898; *Antonina indica* Green, 1908; *Antonina littoralis* Cockerell & Bueker, 1930.

***Antonina pretiosa* Ferris, 1953** (Ferris 1953; Tang 1992)

Original spelling on label: *Antonina pretiosa* Ferris. (2 slides)

Distribution: Singapore.

***Antonina thaiensis* Takahashi, 1942** (Takahashi 1942b; Tang 1992; Ben-Dov & Miller 2010)

Original spelling on label: *Antonina thaiensis* Takah. (2 slides)

Distribution: Malaysia (Malaya: Serdang); Thailand (Siam: Bangkok Noi).

Note: Syntype, female [collected from Thailand: Bangkok, on bamboo, 27-III-1940 by R. Takahashi (#51-4-4-1)].

***Balanococcus diminutus* (Leonardi, 1918)** (Leonardi 1918; Morrison 1925; Cox 1987; Tang 1992; Tao 1999; Ben-Dov & Miller 2010)

Original spelling on label: *Trionymus diminutus* Newstead. (12 slides)

TARI specimens Distribution: Taiwan (Byoritsu; Nantou: Horin; Taichu: Kori; Taito).

Syn.: *Pseudococcus diminutus* Leonardi, 1918; *Trionymus diminutus* (Leonardi, 1918); *Erium diminutum* (Leonardi, 1918).

***Brevennia pulveraria* (Newstead, 1892)** (Newstead 1892; Goux 1933; Miller 1975; Tang 1992; Ben-Dov & Miller 2010)

Original spelling on label: *Trionymus pulverarius* Newstead. (3 slides)

Distribution: Taiwan (Nantou: Sankakuho).

Syn.: *Ripersia pulveraria* Newstead, 1892; *Dactylopius pulverarius* (Newstead, 1892); *Trionymus pulverarius* (Newstead, 1892); *Erium pulverarium* (Newstead, 1892); *Brevennia krishtali* Ter-eznikova, 1962; *Brevennia pulverarius* (Newstead, 1892).

***Chaetococcus bambusae* (Maskell, 1893)** (Maskell 1893; Kirkaldy 1902; Ferris 1921; Tao 1989; Tang 1992; Ben-Dov & Miller 2010)

Original spelling on label: *Antonina bambusae* Mask. (38 slides)

Distribution: China (Canton); Japan (Hokkaido: Sapporo; Okinawa: Daito-Jima); Taiwan (Kagi; Nantou: Hori; Taihoku: Hokuto, Shirin, Taihoku); Thailand (Siam: Bangkok); USA (Saipan: Garapan, Saipan)

Syn.: *Sphaerococcus bambusae* Maskell, 1893; *Kermicus bambusae* (Maskell, 1893); *Antonina* (*Chaetococcus*) *bambusae* (Maskell, 1893); *Antonina bambusae* (Maskell, 1893).

***Coccidohystrix insolita* (Green, 1908)** (De Lotto 1969; Green 1908; Tang 1992; Ben-Dov & Miller 2010)

Original spelling on label: *Phenacoccus insolitus* Green. (1 slide)

Distribution: India (Bangalore: Mysore).

Syn.: *Phenacoccus insolitus* Green, 1908; *Tylococcus insolitus* (Green, 1908); *Centrococcus insolitus* (Green, 1908).

***Coccurea suwakoensis* (Kuwana & Toyota, 1915)**

(Kuwana & Toyoda 1915; Kanda 1934; Danzig 1980; Tang 1992; Ben-Dov & Miller 2010)

Original spelling on label: *Phenacoccus suwakoensis* Kuw. (2 slides)**Distribution:** Japan (Kanagawa: Yokohama).**Syn.:** *Phenacoccus suwakoensis* Kuwana & Toyoda, 1915; *Rosanococcus suwakoensis* (Kuwana & Toyota, 1915); *Phenacoccus ussuriensis* Borchsenius, 1936; *Coccurea ussuriensis* Borchsenius, 1949.***Crisicoccus cambodiensis* (Takahashi, 1942)**

(Takahashi 1942b; Tang 1992; Williams 2004; Ben-Dov & Miller 2010)

Original spelling on label: *Trionymus cambodiensis* Takah. (3 slides)**Distribution:** Cambodia (Angkor).**Syn.:** *Trionymus cambodiensis* Takahashi, 1942.**Note:** Syntypes, female (collected from Cambodia: Angkor, on undetermined host, 24-IV-1940 by R. Takahashi (#60-1-1-1~3)).***Crisicoccus chiponensis* (Takahashi, 1939)**

(Takahashi 1939b; Tu et al. 1988; Tao 1989; Tang 1992; Wong et al. 1999; Ben-Dov & Miller 2010)

Original spelling on label: *Pseudococcus chiponensis* Takah. (16 slides)**Distribution:** Papua New Guinea (N. Britain: Rabaul), Taiwan (Taito: Chippon).**Syn.:** *Pseudococcus chiponensis* Takahashi, 1939; *Planococcoides chiponensis* (Takahashi, 1939); *Planococcoides chiponensis* (Takahashi, 1939).**Note:** Syntypes, female (collected from Chipon near Taito, on *Citrus* sp., IV-1938 by M. Ogawa (#56-5-4-1~#56-5-6-5)).***Crisicoccus matsumotoi* (Shiraiwa, 1935)**

(Shiraiwa 1935; Shinji 1936; Tang 1992)

Original spelling on label: *Pseudococcus matsumotoi* Shiraiwa. (2 slides)**Distribution:** Japan (Fukuoka).**Syn.:** *Pseudococcus matsumotoi* Shiraiwa, 1935; *Pseudococcus astericola* Shinji, 1936.***Dysmicoccus boninsis* (Kuwana, 1909)**

(Kuwana 1909; Takahashi 1932; Ferris 1950a; Tao 1989; Ben-Dov & Miller 2010)

(1)Original spelling on label: *Pseudococcus bonin-**sis* Kuwana. (5 slides)**Distribution:** Japan (Loochoo: Naha); Taiwan (Taihoku).**(2)Original spelling on label:** *Trionymus taiwanus* Takah. (13 slides)**Distribution:** Palau Is. (Koror); Taiwan (Formosa; Heito: Roopi; Taihoku: Shinten, Taihoku; Toen: Heichin); USA (Saipan: Tsukimi Shin).**Syn.:** *Dactylopius (Pseudococcus) boninsis* Kuwana, 1909; *Dactylopius boninsis* (Kuwana, 1909); *Pseudococcus heterospinus* Green, 1923; *Pseudococcus aegyptiacus* Hall, 1925; *Pseudococcus boninsis* (Kuwana, 1909); *Trionymus boninsis* (Kuwana, 1909); *Trionymus taiwanus* Takahashi, 1932; *Erium taiwanum* (Kuwana, 1909); *Pseudococcus zae* Kanda, 1943; *Trionymus kayashimai* Takahashi, 1951; *Vryburgia graminea* De Lotto, 1967.***Dysmicoccus brevipes* (Cockerell, 1893)**

(Cockerell 1893; Ferris 1950a; Tao 1989; Ben-Dov & Miller 2010)

(1)Original spelling on label: *Pseudococcus brevipes* Ckll. (53 slides)**Distribution:** Guiana (Georgetown); Malaysia (Malaya: Kuala Lumpur, Malaya, Negri Sembilan, Serdang); Micronesia (Caroline Is.: Yap: Okao); Palau Is. (Babeldaob: Ngarard; Korror; Korror Anona muricata; Palan Isl.); Taiwan (Formosa; Heito: Hozan; Kagi; Ropi; Taihoku: Shirin, Taihoku; Takaoshu: Daijusho, Reiko, Taiju); USA (Saipan: Garapan, Tsukimishima).**(2)Original spelling on label:** *Pseudococcus bromeliae* Bouche. (2 slides)**Distribution:** Taiwan (Kagi).**Syn.:** *Dactylopius brevipes* Cockerell, 1893; *Pseudococcus brevipes* (Cockerell, 1893); *Dactylopius (Pseudococcus) ananassae* Kuwana, 1909; *Pseudococcus missionum* Cockerell, 1910; *Pseudococcus palauensis* Kanda, 1933; *Pseudococcus cannae* Green, 1934; *Pseudococcus longirostralis* James, 1936; *Pseudococcus defluiteri* Betrem, 1937; *Pseudococcus pseudobrevipes* Mamet, 1941.

***Dysmicoccus cocotis* (Maskell, 1890)** (Maskell 1890; Fernald 1903; Shiraiwa 1933; Williams & Watson 1988; Tao 1989; Ben-Dov & Miller 2010)

(1) **Original spelling on label:** *Pseudococcus cocotis* Mask. (5 slides)

Distribution: Micronesia (Caroline Is.: Oleai-Atolli; Falulap).

(2) **Original spelling on label:** *Pseudococcus saipanensis* Shiraiwa. (9 slides)

Distribution: Micronesia (Caroline Is.: Truk; Wela; Yap: Dogor); Palau Is. (Babeldaob: Ngarard-Ngarasumao); USA (Saipan: Inai Haguman).

Syn.: *Dactylopius cocotis* Maskell, 1890; *Pseudococcus cocotis* (Maskell, 1890); *Pseudococcus saipanensis* Shiraiwa, 1933; *Dysmicoccus saipanensis* (Siraiwa, 1933).

***Dysmicoccus shintenensis* (Takahashi, 1934)** (Takahashi 1934; Tao 1989; Tang 1992; Ben-Dov & Miller 2010)

Original spelling on label: *Pseudococcus shintenensis* Takah. (2 slides)

Distribution: Taiwan (Taihoku: Shinten).

Syn.: *Pseudococcus shintenensis* Takahashi, 1934.

Note: Syntypes, female (collected from Taiwan: Shinten near Taihoku, on plant of the Gremineae, 02-IV-1933 by R. Takahashi (#62-5-4-1~2)).

***Dysmicoccus wistariae* (Green, 1923)** (Green 1923; Shiraiwa 1935; Tao 1989; Ben-Dov 1994; Ben-Dov & Miller 2010)

(1) **Original spelling on label:** *Pseudococcus matsudoensis* Kuw. (2 slides)

Distribution: Japan.

(2) **Original spelling on label:** *Pseudococcus piriicola* Shiraiwa. (4 slides)

Distribution: Japan (Hokkaido: Sapporo).

Syn.: *Pseudococcus wistariae* Green, 1923; *Pseudococcus piriicola* Shiraiwa, 1935; *Pseudococcus matsudoensis* Kuwana, 1935; *Pseudococcus cuspidatae* Rau, 1937; *Dysmicoccus cuspidatae* (Green, 1923); *Dysmicoccus piriicola* (Green, 1923).

***Eumyrmococcus smithii* Silvestri, 1926** (Silvestri 1926; Tao 1989, 1999)

(1) **Original spelling on label:** *Eumyrmococcus smithii* Silvestri. (3 slides)

Distribution: Japan (Kyushu: Oita).

(2) **Original spelling on label:** *Eumyrmococcus smithi* Silv. (3 slides)

Distribution: Taiwan (Taichu; Toen; Heichin).

***Exallomochlus hispidus* (Morrison, 1921)** (Morrison 1921; Tao 1989; Kondo & Williams 2004; Ben-Dov & Miller 2010)

Original spelling on label: *Pseudococcus hispidus* Morr. (1 slide)

Distribution: Singapore.

Syn.: *Pseudococcus hispidus* Morrison, 1921; *Pseudococcus jacobsoni* Green, 1930; *Erium hispidum* (Morrison, 1921); *Cataenococcus hispidus* (Morrison, 1921); *Paraputo hispidus* (Morrison, 1921).

***Ferrisia virgata* (Cockerell, 1893)** (Cockerell 1893; Fullaway 1923; Tao 1989; Wong et al. 1999)

(1) **Original spelling on label:** *Ferrisia virgata* Ckll. (55 slides)

Distribution: Borneo; China (Hainan: Sana); India (Karnataka: Baugalore; Mysore); Malaysia (Malaya: Butu Tiga, Johore, Jugra, Klang, Nilai, Sumgei way); Palau (Korrer); Papua New Guinea (Bougainville Isl.: Kieta; New Guinea); Taiwan (Formosa); Heito: Heito, Koshun; Karenko; Saisei; Taichu: Shuko-Toyohara, Tosei; Taihoku; Tainan; Taito; Takao: Naii); USA (Saipan: Garapan).

(2) **Original spelling on label:** *Pseudococcus virgatus*. (2 slides)

Distribution: Taiwan (Tainan).

Syn.: *Dactylopius segregatus* Cockerell, 1893; *Dactylopius virgatus* Cockerell, 1893; *Dactylopius virgatus farinosus* Cockerell, 1893; *Dactylopius virgatus humilis* Cockerell, 1893; *Dactylopius ceriferus* Newstead, 1894; *Dactylopius talini* Green, 1896; *Dactylopius dasyliirii* Cockerell, 1896; *Dactylopius setosus* Hempel, 1900; *Pseudococcus virgatus* (Cockerell, 1893); *Dactylopius magnolicida* King, 1902; *Pseudococcus magnolicida* (King, 1902); *Pseudococcus virgatus farinosus* (Cocker-

ell, 1893); *Pseudococcus dasyliirii* (Cockerell, 1896); *Pseudococcus segregatus* (Cockerell, 1893); *Pseudococcus virgatus humilis* (Cockerell, 1893); *Dactylopius virgatus madagascariensis* Newstead, 1908; *Pseudococcus marchali* Vayssiere, 1912; *Pseudococcus virgatus madagascariensis* (Newstead, 1908); *Pseudococcus bicaudatus* Keuchenius, 1915; *Ferrisiana setosus* (Hempel, 1900); *Ferrisiana virgata* (Cockerell, 1893); *Heliococcus malvastrus* McDaniel, 1962; *Ferrisia neovirgata* Khalid & Shafee, 1988.

***Formicococcus cinnamomi* Takahashi, 1928** (Takahashi 1928b; Tao 1989; Ben-Dov & Miller 2010)

Original spelling on label: *Formicococcus cinnamomi* Takah. (21 slides)

Distribution: Taiwan (Taichu: Tosei; Taihoku: Heirin near Shinten, Hokuto, Shinten, Taihoku).

Syn.: *Ferrisicoccus cinnamomi* (Takahashi, 1928).

Note: Syntype, female (collected from Taiwan: Hokuto, Taihoku, on *Cinnamomum* sp., 19-II-1928 by R. Takahashi (#53-2-2-3)).

***Formicococcus macarangae* (Takahashi, 1940)** (Takahashi 1940; Tao 1989; Ben-Dov & Miller 2010)

Original spelling on label: *Pseudococcus macarangae* Takah. (9 slides)

Distribution: Malaysia (Malaya: Kuala Lumpur); Taiwan (Heito: Garanbi; Karenko: Kirisato).

Syn.: *Pseudococcus macarangae* Takahashi, 1940; *Planococcoides macarangae* (Takahashi, 1940).

Note: Syntypes, female (collected from Taiwan: Karenko Prefecture, Garanabi, on *Macaranga tanarius* and *Mallotus* sp., 25-VI-1939 (#53-1-1-1~5) and 08-VIII-1939 (#62-2-1-1~3) by R. Takahashi).

***Formicococcus schimae* Takahashi, 1929** (Takahashi 1929; Tao 1989; Ben-Dov & Miller 2010)

Original spelling on label: *Formicococcus schimae* Takahashi. (6 slides)

Distribution: Taiwan (Nantou: Suisha).

Note: Syntypes, female (collected from Tai-

wan: Suisha, on *Schima noranhae*, IX-1928 by R. Takahashi (#53-1-2-1~5, #62-2-2-1)).

***Geococcus coffeae* Green, 1933** (Green 1933; Tang 1992)

Original spelling on label: *Geococcus coffeae* Green. (3 slides)

Distribution: Palau (Korror).

***Geococcus oryzae* (Kuwana, 1907)** (Kuwana 1907, 1923; Borchsenius 1956; Tang 1992)

Original spelling on label: *Geococcus oryzae* Kuw. (2 slides)

Distribution: Japan (Ibaraki: Mito).

Syn.: *Ripersia oryzae* Kuwana, 1907; *Geococcus unimaculatus* Borchsenius, 1956.

***Heliococcus bambusae* (Takahashi, 1930)** (Takahashi 1930; Goux 1934; Wang 1982; Tao 1989; Ben-Dov & Miller 2010)

Original spelling on label: *Phenacoccus bambusae* Takahashi. (2 slides)

Distribution: Taiwan (Nantou: Suisha).

Syn.: *Heliococcus lingnaniae* Wang, 1982.

Note: Syntype, female (collected from Taiwan: Suisha, on *Bambusa* sp., 26-I-1930 by R. Takahashi (#54-2-2-5)).

***Heliococcus takae* (Kuwana, 1907)** (Kuwana 1907, 1917; Kanda 1934; Danzig 1971; Tao 1989; Tang 1992)

Original spelling on label: *Heliococcus takae* Kuw. (1 slide)

Distribution: Japan.

Syn.: *Dactylopius takae* Kuwana, 1907; *Phenacoccus takae* (Kuwana, 1907); *Saliooccus takae* (Kuwana, 1907).

***Hordeolicoccus eugeniae* (Takahashi, 1942)** (Takahashi 1942a; Williams 2004; Ben-Dov & Miller 2010)

Original spelling on label: *Phenacoccus eugeniae* Tak. (1 slide)

Distribution: Singapore.

Syn.: *Phenacoccus eugeniae* Takahashi, 1942.

Note: Syntype, female (collected from Singapore, on *Eugenia* sp., 17-III-1940 by R. Takahashi (#54-1-2-5)).

***Kiritshenkella sacchari* (Green, 1900)** (Green 1900; Hall 1923; Williams 1970; Tao 1989)

Original spelling on label: *Ripersia cellulosa* Hall. (15 slides)

Distribution: Taiwan (Taihoku).

Syn.: *Ripersia sacchari* Green, 1900; *Ripersia cellulosa* Hall, 1923; *Tychea cellulosa* (Hall, 1923); *Kiritshenkella stataria* Borchsenius, 1948; *Pseudantonina fushanensis* Borchsenius, 1958; *Kiritshenkella shirakensis* Hadzibejli, 1960; *Kiritshenkella fushanensis* (Borchsenius, 1958); *Kiritshenkella cellulosa* (Hall, 1923).

***Laminicoccus pandani* (Cockerell, 1895)** (Cockerell 1895b; Takahashi 1939a; Beardsley 1966; Tang 1992)

Original spelling on label: *Pseudococcus carolinensis* Takah. (13 slides)

Distribution: Micronesia (Caroline Isls.: Ponape; Paliker, Paliker-Kolinia; Truk; Wela).

Syn.: *Dactylopius pandani* Cockerell, 1895; *Pseudococcus pandani* (Cockerell, 1985); *Tylococcus giffardi* Ehrhorn, 1916; *Pseudococcus carolinensis* Takahashi, 1939; *Pseudococcus giffardi* (Ehrhorn, 1916).

***Maconellicoccus hirsutus* (Green, 1908)** (Green 1908; Tao 1989; Wong et al. 1999; Ben-Dov & Miller 2010)

Original spelling on label: *Phenacoccus hirsutus* Green. (26 slides)

Distribution: Taiwan (Bokoto: Hakushato, Mako; Kagi; Taihoku: Hokuto, Taihoku; Tainan; Toroku); Thailand (Siam: Bangkok)

Syn.: *Phenacoccus hirsutus* Green, 1908; *Maconellicoccus pasaniae* (Borchsenius, 1962).

***Miscanthicoccus miscanthi* (Takahashi, 1928)** (Takahashi 1928a, 1958; Tao 1989; Ben-Dov & Miller 2010)

Original spelling on label: *Trionymus miscanthi* Takah. (17 slides)

Distribution: Taiwan (Taihoku).

Syn.: *Trionymus miscanthi* Takahashi, 1928; *Pseudantonina ostiolata* Borchsenius, 1958; *Kiritshenkella ostiolata* (Borchsenius, 1958); *Cannococcus ostiolata*

(Borchsenius, 1958).

Note: Syntypes, female (collected from Taiwan: Taihoku, on *Miscanthus* sp., 10-VII-1927 (#60-4-4-2); 14-VII-1927 (#60-4-1-4~5, #60-4-3-1~5); 10-VIII-1927 (#60-4-2-1~5); 1-VIII-1927 (#60-4-4-1) and 02-IX-1927 (#60-4-1-1~3) by R. Takahashi).

***Mizococcus sacchari* Takahashi, 1928** (Takahashi 1928a; Lindinger 1932, 1943; Tao 1989; Wong et al. 1999; Ben-Dov & Miller 2010)

Original spelling on label: *Mizococcus sacchari* Takah. (14 slides)

Distribution: Taiwan (Heito; Taichu)

Syn.: *Ripersia sacchari* (Takahashi, 1928); *Ripersia takahashii* (Takahashi, 1928); *Tychea takahashii* (Takahashi, 1928).

Note: Syntypes, female (collected from Taiwan: Taichu, on *Saccharum officinarum* and *Miscanthus* sp., V-1927, by M. Yanagihara (#59-1-1-1~5, #59-1-3-1~4)).

***Neoripersia miscanthicola* (Takahashi, 1937)** (Takahashi 1937, 1958; Tao 1989; Ben-Dov & Miller 2010)

Original spelling on label: *Trionymus miscanthicola* Takah. (10 slides)

Distribution: Taiwan (Taihoku: Shinten).

Syn.: *Trionymus miscanthicola* Takahashi, 1937.

Note: Syntypes, female (collected from Taiwan: Shinten, on *Miscanthus* sp., 10-III-1936 by R. Takahashi (#60-5-1-1~#60-5-2-3)).

***Neosimmondsia esakii* Takahashi, 1939** (Takahashi 1939a; Tang 1992; Ben-Dov & Miller 2010)

Original spelling on label: *Neosimmondsia esakii* Takah. (23 slides)

Distribution: Micronesia (Caroline Isls.: Ponape; Nanalaut, Ronkiti-Paliker).

Note: Syntypes, female (collected from Caroline Islands: Ponape, Ronkiti-Paliker, on *Coelococcus amicarum* and on *Pandanus* sp., 4-I-1938 (#53-4-3-1~53-4-5-5) and 15-I-1938 (#53-4-1-1~53-4-2-4) by T. Esaki).

***Nipaecoccus filamentosus* (Cockerell, 1893)** (Cockerell 1893; Tao 1989; Ben-Dov 1994; Ben-Dov & Miller 2010)

Original spelling on label: *Pseudococcus filamentosus* Ckll. (15 slides)

Distribution: China (Hainan); India (Bangalore: Mysore; Sidapur); Pakistan (D. I. Khan); Taiwan (Taihoku).

Syn.: *Dactylopius filamentosus* Cockerell, 1893; *Pseudococcus filamentosus* (Cockerell, 1893).

***Nipaecoccus nipae* (Mask, 1892)** (Maskell 1893; Cockerell 1902; Tao 1989; Tang 1992; Ben-Dov & Miller 2010)

Original spelling on label: *Pseudococcus nipae*. (1 slide)

Distribution: Japan (Chiba: Matsudo).

Syn.: *Dactylopius nipae* Maskell, 1893; *Dactylopius pseudonipae* Cockerell, 1897; *Ripersia serrata* Tinsley, 1900; *Pseudococcus nipae* (Maskell, 1893); *Pseudococcus pseudonipae* (Cockerell, 1897); *Ceroputo nipae* (Maskell, 1893); *Pseudococcus magnoliae* Hambleton, 1935; *Ripersia nipae* (Maskell, 1893); *Nipaecoccus pseudonipae* (Cockerell, 1897).

***Nipaecoccus viridis* (Newstead, 1894)** (Newstead 1894; Ali 1970b; Tang 1992; Ben-Dov & Miller 2010)

Original spelling on label: *Nipaecoccus viridis* (Newstead) (5 slides)

Distribution: India (Bangalore: Mysore; Sidapur); Taiwan (Taihoku).

Syn.: *Dactylopius viridis* Newstead, 1894; *Dactylopius vastator* Maskell, 1895; *Pseudococcus vastator* (Maskell, 1895); *Pseudococcus viridis* (Newstead, 1894); *Dactylopius perniciosus* Newstead & Willcocks, 1910; *Pseudococcus solitarius* Brain, 1915; *Ripersia theae* Rutherford, 1915; *Pseudococcus perniciosus* Newstead, 1920; *Pseudococcus filamentosus corymbatus* Green, 1922; *Trionymus sericeus* James, 1936; *Pseudococcus theae* (Rutherford, 1915); *Nipaecoccus vastator* (Maskell, 1895).

***Palmicultor palmarum* (Ehrhorn, 1916)** (Ehrhorn 1916; Takahashi 1939a; Williams 1963; Ben-Dov & Miller 2010)

(1)Original spelling on label: *Pseudococcus oce-*

anicus Takah. (2 slides)

Distribution: Micronesia (Caroline Isls.: Truk: Toloas); USA (Saipan).

(2)Original spelling on label: *Pseudococcus oceanicus* Tak. var. *kentiae* Tak. (3 slides)

Distribution: Palau (Korror).

Syn.: *Ripersia palmarum* Ehrhorn, 1916; *Pseudococcus oceanicus* Takahashi, 1939; *Pseudococcus oceanicus kentiae* Takahashi, 1939; *Dysmicoccus palmarum* (Ehrhorn, 1916); *Palmicola palmarum* (Ehrhorn, 1916).

***Pandanicola esakii* (Takahashi, 1942)** (Takahashi 1942c; Beardsley 1966; Tang 1992; Ben-Dov & Miller 2010)

Original spelling on label: *Pseudococcus esakii* Takah. (5 slides)

Distribution: Palau Isls. (Babeldaob: Aimibik).

Note: Syntypes, female (collected from Palau Islands: Babeldaob, Amilik, on *Pandanus* sp., 18-VIII-1939 by T. Esaki. (#58-1-2-1~5)).

***Pandanicola pandani* (Takahashi, 1939)** (Takahashi 1939a; Beardsley 1966; Tang 1992; Ben-Dov & Miller 2010)

Original spelling on label: *Trionymus pandani* Takah. (13 slides)

Distribution: Micronesia (Caroline Isls.: Ponape: Nipit-Ninoani).

Syn.: *Trionymus pandani* Takahashi, 1939.

Note: Lectotype, female (collected from Caroline Islands: Ponape, Nipit-nonoani, on *Pandanus* sp., 13-I-1938 by T. Esaki (#60-5-5-4). Takahashi designated four slides (#60-5-4-4, #60-5-5-2, #60-5-5-3, #60-5-5-4) as cotypes, Beardsley (1966) selected (#60-5-5-4) as lectotype).

***Paramyrmococcus chiengraiensis* Takahashi, 1941** (Takahashi 1941; Tang 1992)

Original spelling on label: *Paramyrmococcus chiengraiensis* Takah. (3 slides)

Distribution: Thailand (Siam: Chiengra).

***Paramyrmococcus vietnamensis* Williams D. J., 1978** (Williams 1978; Tang 1992)

Original spelling on label: *Paramyrmococcus vietnamensis* Williams (2 slides)

Distribution: Vietnam (Chute de Goch).

Note: Paratypes, female (collected from Vietnam: South, Da Lat, Chute de Gauhgau, host plant not indicated, 25-IV-1960 by R. E. Leech. (#54-1-1-4~5)).

***Phenacoccus asteri* Takahashi, 1932** (Takahashi 1932; Tao 1989; Tang 1992; Ben-Dov 1994)

Original spelling on label: *Phenacoccus asteri* Takah. (3 slides)

Distribution: Taiwan (Taihoku).

Syn.: *Puto asteri* (Takahashi, 1932).

Note: Syntypes, female (collected from Taiwan: Taihoku, on *Aster lauruleanus.*, 30-VIII-1931 (#54-2-1-1); X-1931 (#54-2-1-4) and XI-1931 (#54-2-1-3) by R. Takahashi)).

***Phenacoccus fici* Takahashi, 1940** (Takahashi 1940; Tao 1989; Tang 1992; Ben-Dov & Miller 2010)

Original spelling on label: *Phenacoccus fici* Takah. (2 slides)

Distribution: Taiwan (Heito: Garanbi).

Syn.: *Tylococcus fici* (Takahashi, 1940).

Note: Syntypes, female (collected from Taiwan: Garanbi, on *Ficus retusa*), 25-VI-1939 by R. Takahashi (#54-1-3-1~2)).

***Phenacoccus pergandei* Cockerell, 1896** (Cockerell 1896; Shinji 1935; Tao 1989; Ben-Dov & Miller 2010)

Original spelling on label: *Phenacoccus pergandei* Ckll. (1 slide)

Distribution: Japan (Hokkaido: Sapporo).

Syn.: *Pseudococcus katsurae* Shinji, 1935.

***Pilococcus miscanthi* Takahashi, 1928** (Takahashi 1928b; Tao 1989; Ben-Dov & Miller 2010)

Original spelling on label: *Pilococcus miscanthi* Takah. (24 slides)

Distribution: Taiwan (Giran: Riyohen; Heito: Kuraru; Nantou: Takeyama; Taihoku: Urai).

Note: Syntypes, female (collected from Taiwan: Urai and Takeyama, on *Miscanthus* sp.), 17-X-1927 by R. Takahashi (#55-3-1-1~#55-3-5-5)).

***Planococcus angkorensis* (Takahashi, 1942)** (Ali 1970a; Takahashi 1942b; Tang 1992; Ben-Dov & Miller 2010)

Original spelling on label: *Pseudococcus angkorensis* Takah. (2 slides)

Distribution: Cambodia (Angkor).

Syn.: *Pseudococcus angkorensis* Takahashi, 1942; *Planococcus dorsospinosus* Ezzat & McConnell, 1956; *Planococcus myrsinophilus* Borchsenius, 1962; *Planococcus sinensis* Borchsenius, 1962.

Note: Syntypes, female (collected from Cambodia: Angkor, on undetermined host), 23-IV-1940 by R. Takahashi (#56-1-5-4~5)).

***Planococcus citri* (Risso, 1813)** (Risso 1813; Signoret, 1875; Cockerell 1902; Ferris 1950a; Tao 1989; Ben-Dov & Miller 2010)

Original spelling on label: *Pseudococcus citri*. (72 slides)

Distribution: Japan (Okinawa: Daito-jima); Malaysia (Malaya: Kuala hilis, Kuala Lumpur, Kuang, Malacca, Serdang, Sungei Petani); Micronesia (Caroline Isls.: Ponape: Paliker; Truk: Erin, Toloas-Erin; Yap: Gatzapar); Palau Isls. (Korror: Korror, Korror-Anabakastu; Peliliou: Ashiasu); Solomon Isls (Isabel: Kumaigula); Taiwan (Heito: Heito, Kuraru; Hozan; Itahashi; Karenko; Nantou: Nama; Taihoku: Sozan, Taihoku, 台北; Tainan; Taito: Riran, Taito; Takao: Taiju); USA (Saipan: Topocho).

Syn.: *Dorthisia citri* Risso, 1813; *Coccus tuliparum* Bouche, 1844; *Coccus citri* (Risso, 1813); *Dactylopius alaterni* Signoret, 1875; *Dactylopius ceratoniae* Signoret, 1875; *Dactylopius citri* (Risso, 1813); *Dactylopius cyperi* Signoret, 1875; *Dactylopius tuliparum* (Bouche, 1844); *Lecanium phyllococcus* Ashmead, 1879; *Dactylopius brevispinus* Targioni Tozzetti, 1881; *Dactylopius destructor* Comstock, 1881; *Dactylopius secretus* Hempel, 1900; *Phenacoccus spiriferus* Hempel; *Pseudococcus citri* (Risso, 1813); *Pseudococcus cyperi* (Signoret, 1875); *Pseudococcus robiniae* (Signoret, 1875); *Pseudococcus tuliparum* (Bouche, 1844); *Pseudococcus*

alaterni (Signoret, 1875); *Pseudococcus ceratoniae* (Signoret, 1875); *Pseudococcus citri coleorum* Marchal, 1908; *Dactylopius (Trechocorys) citri* (Risso, 1813); *Pseudococcus citri phenacociformis* Brain, 1915; *Planococcoides cubanensis* Ezzat & McConnell, 1956; *Planococcus citricus* Ezzat & McConnell, 1956; *Planococcus cucurbitae* Ezzat & McConnell, 1956.

***Planococcus kraunhiae* (Kuwana, 1902)** (Kuwana 1902; Ferris 1950a; Tao 1989; Wong et al. 1999; Ben-Dov & Miller 2010)

Original spelling on label: *Pseudococcus kraunhiae* Kuw. (11 slides)

Distribution: China (Shanghai); Japan (Fukuoka); Malaysia (Malaya; Cameron Highlands, Kuala Lumpur); Taiwan (Heito).

Syn.: *Dactylopius kraunhiae* Kuwana, 1902; *Pseudococcus kraunhiae* (Kuwana, 1902); *Planococcus siakwanensis* Borchsenius, 1962.

***Planococcus lilacinus* (Cockerell, 1905)** (Cockerell 1905; Ferris 1950a; Tao 1989; Ben-Dov & Miller 2010)

(1)**Original spelling on label:** *Pseudococcus lilacinus* Ckll. (64 slides)

Distribution: Indo-China (Cambodia: Angkor); Indonesia (Java); Japan (Okinawa: Ishigaki); Micronesia (Caroline Is.: Oleai-Atolli: Falulap); Taiwan (Bokoto: Mako; Giran: Karrapo, Riyohen; Heito: Garanbi, Heito, Kagi, Kankau, Kuraru, Toko; Kankau; Karenko: Domon, Karenko; Taichu; Taihoku: Hokuto, Shinten, Taihoku; Taito: Botel Tobago, Seisui); Thailand (Siam: Bangkok, Korat).

(2)**Original spelling on label:** *Pseudococcus tayabanus* Ckll. (5 slides)

Distribution: Taiwan (Heito: Garanbi); Thailand (Siam: Bangkok Noi).

Syn.: *Pseudococcus tayabanus* Cockerell, 1905; *Dactylopius crotonis* Green, 1906; *Dactylopius coffeae* Newstead, 1908; *Pseudococcus coffeae* (Newstead, 1908); *Dactylopius crotonis* Green, 1911; *Pseudococcus*

crotonis (Green, 1911); *Pseudococcus deceptor* Betrem, 1937; *Tylococcus mauritiensis* Mamet, 1939; *Planococcus crotonis* (Green, 1906); *Planococcus tayabanus* (Cockerell, 1905); *Planococcus indicus* Avasthi & Shafee, 1987; *Planococcus lilacinus* (Cockerell).

***Planococcus minor* (Maskell, 1897)** (Maskell 1897a; Cox 1989; Tao 1989; Ben-Dov & Miller 2010)

Original spelling on label: *Pseudococcus citri* Risso (7 slides)

Distribution: Micronesia (Caroline Is.: Truk: Toloas-Erin); Palau (Korror); Taiwan (Heito: Koshun; Taihoku); USA (Saipan: Tapocho).

Syn.: *Dactylopius calceolariae minor* Maskell, 1897; *Pseudococcus calceolariae minor* (Maskell, 1897); *Planococcus pacificus* Cox, 1981; *Planococcus psidii* Cox, 1989.

***Pseudococcus bambusicola* Takahashi, 1930** (Takahashi 1930; Tao 1989; Tang 1992; Ben-Dov & Miller 2010)

Original spelling on label: *Pseudococcus bambusicola* Takahashi. (1 slide)

Distribution: Taiwan (Nantou: Suisha).

Syn.: *Planococcoides bambusicola* (Takahashi, 1930).

Note: Syntype, female (collected from Taiwan: Suisha, on *Bambusa* sp., 26-I-1930 by R. Takahashi (#56-4-1-5)).

***Pseudococcus calceolariae* (Maskell, 1879)** (Maskell 1879; Fernald 1903; Clausen 1915; Tao 1999; Ben-Dov & Miller 2010)

Original spelling on label: *Pseudococcus citrophilus* Claussen (1 slide)

Distribution: Taiwan (Taichu: Reimei).

Syn.: *Dactylopius calceolariae* Maskell, 1879; *Dactylopius similans* Lidgett, 1898; *Pseudococcus similans* (Lidgett, 1898); *Pseudococcus fragilis* Brain, 1912; *Pseudococcus citrophilus* Clausen, 1915; *Pseudococcus gahani* Green, 1915; *Erium calceolariae* (Maskell, 1879).

***Pseudococcus casuarinae* (Takahashi, 1939)** (Takahashi 1939a; Beardsley 1966; Tang 1992; Ben-Dov & Miller 2010)

Original spelling on label: *Pseudococcus casuarinae* (Takahashi) (1 slide)

Distribution: Micronesia (Caroline Isls.: Ponape; Paliker); Palau Isls.: (Korror; Arumizu).

Syn.: *Ferrisiana casuarinae* Takahashi, 1939.

Note: Lectotype, female (collected from Palau Islands: Korror, Arumizu, on *Casuarina* sp., 31-I-1938 by Teiso Esaki (#56-4-2-2)) and det. by J. W. Beardsley (1964)).

***Pseudococcus comstocki* (Kuwana, 1902)** (Kuwana 1902; Fernald 1903; Tao 1989; Ben-Dov & Miller 2010)

Original spelling on label: *Pseudococcus comstocki* Kuw. (29 slides)

Distribution: Gojo; Indo-China (Cambodia: Angkor); Japan (Fukuoka; Honshu: Tokyo; Japan; Kanagawa: Yokohama; Niigata; Okinawa: Miyako); Malaysia (Malaya: Kuala Lumpur); Rehovot; Taiwan (Heito: Garanbi; Kagi; Karenko; Tainan: Shokwa; Takao: Taiju, Takao; Urai); Thailand (Siam: Bangkok Noi, Chiangmai); USA (Saipan: Karabera, Matansha-Banaderu).

Syn.: *Dactylopius comstocki* Kuwana, 1902.

***Pseudococcus cryptus* Hempel, 1918** (Hempel 1918; Tao 1999; Ben-Dov & Miller 2010)

Original spelling on label: *Pseudococcus comstocki* Kuw. (5 slides)

Distribution: Rehovot; Taiwan (Taihoku: Hokuto, Taihoku, Tamsui).

Syn.: *Pseudococcus citriculus* Green, 1922; *Pseudococcus spathoglottidis* Lit, 1992; *Pseudococcus mandarinus* Das & Ghose, 1996.

***Pseudococcus longispinus* (Targioni-Tozzetti, 1867)** (Signoret, 1875; Cockerell 1902; Tao 1989; Ben-Dov & Miller 2010)

Original spelling on label: *Pseudococcus adonidum* L. (16 slides)

Distribution: Taiwan (Heito; Taihoku: Maruyama, Shinten, Taihoku, Tansui).

Syn.: *Pediculus coffeae* Linnaeus, 1767; *Coccus laurinus* Boisduval, 1867; *Dactylopius longispinus* Targioni Tozzetti, 1867; *Dactylopius hoyae* Signoret, 1875; *Dactylopius*

longifilis Comstock, 1881; *Pseudococcus longispinus* (Targioni Tozzetti, 1867).

***Pseudococcus maritimus* (Ehrhorn, 1900)** (Ehrhorn 1900; Essig 1910; Hollinger 1917; Ben-Dov 1994)

Original spelling on label: *Pseudococcus maritimus* (Ehrhorn, 1900) (8 slides)

Distribution: USA (California: Riverside).

Syn.: *Dactylopius maritimus* Ehrhorn, 1900; *Pseudococcus bakeri* Essig, 1910; *Pseudococcus omniverae* Hollinger, 1917.

***Pseudococcus orchidicola* Takahashi, 1939** (Takahashi 1939a; Tang 1992)

Original spelling on label: *Pseudococcus orchidicola* Takahashi, 1939 (5 slides)

Distribution: USA (Rota: Sabana).

Note: Lectotype, female (collected from Mariana Islands: Rota, Sabana, on an orchid, 07-XI-1937 by T. Esaki (#62-4-1-2)). Beardsley (1966) designated four slides (#62-4-1-2~5) as cotypes and selected (#62-4-1-2) as lectotype).

***Pseudococcus pandanicola* Takahashi, 1939** (Takahashi 1939a; Tang 1992; Williams & Martin 2005; Ben-Dov & Miller 2010)

Original spelling on label: *Pseudococcus pandanicola* Takah. (3 slides)

Distribution: Palau Isls. (Babeldaob: Ngarard-Ngarasumao, Ngarumisukan).

Syn.: *Laminicoccus pandanicola* (Takahashi, 1939).

Note: Syntype, female (collected from Palau Islands: Babeldaob, Ngarard-Ngarasumao, on *Pandanus* sp., 7-II-1938 by Teiso Esaki (#62-4-2-1~2)).

***Pseudococcus saccharicola* Takahashi, 1928** (Takahashi 1928a; Tao 1989; Wong et al. 1999; Ben-Dov & Miller 2010)

Original spelling on label: *Pseudococcus saccharicola* Takah. (6 slides)

Distribution: Taiwan (Tainan).

Syn.: *Trionymus oryzae* Wirjati, 1959; *Dysmicoccus oryzae* (Wirjati, 1959).

Note: Syntypes, female (collected from Taiwan: Shinkwa, on *Saccharum officinarum*, 24-VIII-1927 by R. Takahashi (#62-5-2-1 ~ #62-5-3-1)).

***Pseudococcus solomonensis* Williams, 1960** (Williams 1960; Tang 1992)

Original spelling on label: *Pseudococcus solomonensis* Williams, 1960 (1 slide)

Distribution: Palau Is. (Koror: Arumizu).

***Rastrococcus iceryoides* (Green, 1908)** (Green 1908; Ferris 1954; Williams 1989; Tang 1992; Ben-Dov & Miller 2010)

Original spelling on label: *Phenacoccus iceryoides* Green. (30 slides)

Distribution: India (Bangalore: Mysore; Karnataka: Hebbal); Indonesia (Java: Butenzorg); Malaysia (Malaya: Bamting, Ipon, Kuala Lumpur, Malaya, N. Sembilan, Nilai, Port Swatendam, Rembau, Serdang, Telong); Singapore.

Syn.: *Phenacoccus iceryoides* Green, 1928; *Dactylopius (Pseudococcus) obtusus* Newstead, 1911; *Phenacoccus obtusus* (Green, 1908); *Ceroputo iceryoides* (Green, 1908); *Rastrococcus cappariae* Avasthi & Shafee, 1983.

***Rastrococcus invadens* Williams, 1986** (Williams 1986, 1989; Tang 1992)

Original spelling on label: *Puto spinosa* Robinson. (8 slides)

Distribution: Cambodia (Angkor); Malaysia (Malaya: Kuala Lumpur); Thailand (Siam: Bangkok, Chiangmai).

***Rastrococcus mangiferae* (Green, 1896)** (Green 1896; Ferris 1954; Tao 1989; Williams 1989; Ben-Dov & Miller 2010)

Original spelling on label: *Puto mangiferae* Green. (3 slides)

Distribution: Taiwan (Nantou: Suisha; Taihoku: Shirin).

Syn.: *Pseudococcus mangiferae* Green, 1896; *Phenacoccus mangiferae* (Green, 1896); *Phenacoccus ballardi* Newstead, 1917; *Puto mangiferae* (Green, 1896).

***Rastrococcus spinosus* (Robinson, 1918)** (Robinson 1918; Ferris 1954; Tao 1989; Williams 1989; Ben-Dov & Miller 2010)

Original spelling on label: *Phenacoccus spinosus* Robinson. (8 slides)

Distribution: India (Karnataka: Baugalore); Taiwan (Karenko: Hatsune; Taito:

Kowarun).

Syn.: *Phenacoccus spinosus* Robinson, 1918; *Puto spinosus* (Robinson, 1918); *Ceroputo spinosus* (Robinson, 1918).

***Saccharicoccus sacchari* (Cockerell, 1895)** (Cockerell 1895a, 1902; Ferris 1950b; Tao 1989; Ben-Dov & Miller 2010)

Original spelling on label: *Trionymus sacchari* Ckll. (39 slides)

Distribution: Fiji (Nansori); Japan (Loochoo: Naha; Okinawa); Micronesia (Caroline Is.: Ponape: Reitao); Taiwan (Formosa; Heito: Koshun; Hokoto: Mako; Karenko; Taichu: Kori, Taichu; Taihoku; Tainan: Kohekirin, Shinka); USA (Saipan: Garampan).

Syn.: *Dactylopius sacchari* Cockerell, 1895; *Pseudococcus sacchari* (Cockerell, 1895); *Dactylopius sacchari brasiliensis* van Gorkum, 1913; *Trionymus sacchari* (Cockerell, 1895); *Erium sacchari* (Cockerell, 1895); *Trionymus praegrandidis* James, 1936; *Trionymus sacchari* (Cockerell, 1895); *Saccharicoccus sacchari* (Cockerell, 1895).

***Trionymus formosanus* Takahashi, 1930** (Takahashi 1930; Tao 1989; Ben-Dov & Miller 2010)

Original spelling on label: *Trionymus formosanus* Takah. (15 slides)

Distribution: Taiwan (Kagi; Taihoku).

Syn.: *Erium formosanum* (Takahashi, 1930).

Note: Syntype, female (collected from Taiwan: Taihoku, on *Bambusa stenostachya*, VIII-1929 by R. Takahashi (#60-2-1-2)).

***Trionymus latus* Takahashi, 1929** (Takahashi 1929; Tao 1989; Ben-Dov & Miller 2010)

Original spelling on label: *Trionymus latus* Takahashi. (11 slides)

Distribution: Japan (Loochoo: Naz); Taiwan (Nantou: Suisha; Taihoku: Shinten, Taihoku).

Syn.: *Erium latum* (Takahashi, 1929).

Note: Syntypes, female (collected from Taiwan: Taihoku, on *Miscanthus* sp., 23-VIII-1928 by R. Takahashi (#60-3-1-1~5); Taiwan: Shinten, on *Miscanthus*

Table 1. List of the localities recorded on the specimens

Old name	Current name	Chinese name
Kagi	Chiayi	嘉義
Karenko	Hualien	花蓮，花蓮港
Hatsune	Hualien, Chiyin	花蓮，初音
Domon	Hualien, Tungmen	花蓮，銅門
Takao, Takaoshu	Kaohsiung	高雄
Taiju, Daijusho	Kaohsiung, Dashu	高雄，大樹
Hozan	Kaohsiung, Fengshan	高雄，鳳山
Reiko	Kaohsiung, Lingkou	高雄，嶺口
Naii	Kaohsiung	高雄
Byoritsu	Miaoli	苗栗
Nantou	Nantou	南投
Takeyama	Nantou, Zhushan	南投，竹山
Sankakuho	Nantou, Meifeng, Sanjiaofeng	南投，梅峰，三角峰
Nama	Nantou, Mingjian	南投，名間
Hori, Horin	Nantou, Puli	南投，埔里
Suisha	Nantou, Shuishhe	南投，水社
Hakushato	Penghu, Baisha	澎湖，白沙鄉
Mako	Penghu, Magong	澎湖，馬公
Heito	Pingtung	屏東
Roopi	Pingtung	屏東
Toko	Pingtung, Donggang	屏東，東港
Koshun	Pingtung, Hengchun	屏東，恆春
Kuraru	Pingtung, Sheding	屏東，社頂
Kankau	Pingtung, Manzhou, Gangkou	屏東，滿州，港口
Garanbi	Pingtung, Eluanbi	屏東，鵝鑾鼻
Taichu	Taichung	台中
Tosei	Taichung, Dongshi	台中，東勢
Kori	Taichung, Houli	台中，后里
Reimei	Taichung, Liming	台中，黎明
Shuko–Toyohara	Taichung, Shalu–Fengyuan	台中，沙鹿至豐原
Kohekirin	Tainan, Houbi	台南，後壁
Shinka	Tainan, Xinhua	台南，新化
Shokwa	Tainan, Xinhua, Damujiang	台南，新化，大目降
Taihoku	Taipei	台北
Hokuto	Taipei, Beitou	台北，北投
Hichiseisan	Taipei, Qixing Mountain (Chihsingshan)	台北，七星山
Shirin	Taipei, Shilin	台北，士林
Sozan	Taipei, Yangmingshan	台北，陽明山

Table 1. List of the localities recorded on the specimens (continued)

Old name	Current name	Chinese name
Maruyama	Taipei, Yuanshan	台北，圓山
Itabashi	New Taipei, Banqiao	新北市，板橋
Tamsui	New Taipei, Danshui	新北市，淡水
Heirin	New Taipei, Pinglin	新北市，坪林
Heirin near Shinten	New Taipei, Pinglin	新北市，坪林
	New Taipei, Xindian	新北市，新店
Urai	New Taipei, Wulai	新北市，烏來
Shinten	New Taipei, Xindian	新北市，新店
Taito	Taitung	台東
Chippon	Taitung, Zhiben	台東，知本
Seisui	Taitung, Chingshui	台東，清水
Kowarun	Taitung, Daren	台東，達仁
Botel Tobago	Taitung, Lanyu	台東，蘭嶼
Riran	Taitung, Lilong	台東，里龍
Heichin	Taoyuan, Puxin	桃園，埔心
Karrapo	Yilan, Chialan	宜蘭，加蘭
Riyohen	Yilan, Liuxingshe	宜蘭，流興社
Saisei	Yilan, Sanxing	宜蘭，三星
Yunlin, Toroku	Yunlin, Douliu	雲林，斗六

sp., 07-X-1928 by R. Takahashi (#60-3-2-1~4)).

***Turbinoecoccus pandanicola* (Takahashi, 1941)**

(Takahashi 1941; Beardsley 1966; Tang 1992; Ben-Dov & Miller 2010)

Original spelling on label: *Trionymus pandanicola* Takahashi, 1941 (8 slides)

Distribution: Palau Isls. (Babeldaob: Ng-armisuken; Korrer).

Syn.: *Trionymus pandanicola* Takahashi, 1941.

Note: Cotypes, female (collected from Palau Islands: Korrer, on *Pandanus* sp., by T. Esaki)).

Discussion

Based on the modern taxonomic system, the number of Pseudococcid species collected and deposited at TARI Insect Collection is decreased 7 to 72. The present paper will provide basic information for setting up an online database of scientific name, synonyms, host plants, distribution and digital ar-

chives through Digital Insect of TARI website (<http://digiins.tari.gov.tw/>) which will meet the requirement of both basic and applied works and will be helpful to taxonomic researchers, quarantine inspector, and farmers in the future.

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農業試驗所昆蟲標本館館藏粉介殼蟲標本名錄¹

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摘 要

陳淑佩、翁振宇、吳文哲。2012。農業試驗所昆蟲標本館館藏粉介殼蟲標本名錄。台灣農業研究 61:298–315。

本文羅列 35 屬 72 種 (872 玻片標本) 之農業試驗所館藏之粉介殼蟲科 (Pseudococcidae) [半翅目 (Hemiptera) 胸喙亞目 (Sternorrhyncha) 介殼蟲總科 (Coccoidea)] 名錄，其中亦包含異名、寄主植物及採集分布等資料。

關鍵詞：粉介殼蟲、農業試驗所、館藏標本。

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