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ADDITIONS AND CORRECTIONS
to
An Annotated List of Generic Names of
the Scale Insects (Homoptera: Coccoidea)

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SUPPLEMENT
Miscellaneous Publication No. 1015

Agricultural Research Service
UNITED STATES DEPARTMENT OF AGRICULTURE

PREFACE

This publication contains additions and corrections to "An Annotated List of Generic Names of the Scale Insects (Homoptera: Coccoidea" by Harold Morrison and Emily R. Morrison, published in October 1966. It extends through December 31, 1963, as did the Morrison and Morrison publication, and in addition includes citations to a 1965 paper by De Lotto, which has a crucial bearing on certain coccid generic names, and the 1966 diaspidid catalog of Borchsenius.

Morrison and Morrison treated names proposed by Amyot, 1847: 488-503, as uninominals and hence as invalid names without explaining their action. Neave listed the Amyot names without comment. Although inclusion in Neave's list does not imply validity of the names, their presence there has led some workers to question the correctness of the Morrison and Morrison conclusions.

It therefore seems relevant to note the following statement by Amyot, 1845: 369: "Ce qui doit le plus frapper au premier abord, dans cet ouvrage, est le mode de nomenclature que nous y avons adopté, sous le titre de Méthode mononymique, et qui consiste dans l'application d'un nom unique, donné à chaque espèce, au lieu de deux, le nom générique et le nom spécifique, comme cela se pratique dans la nomenclature en usage depuis Linné."

This system obviously does not meet the requirements of Article 11(c) of the International Code of Zoological Nomenclature. The matter was settled unequivocally by the International Commission in Opinion 686, 1963: 423, when Amyot's Méthode mononymique was placed on the Official Index of Rejected and Invalid Works in Zoological Nomenclature.

It is evident from their comments on Amyot names that Morrison and Morrison were not aware of Opinion 686.

A few Amyot coccid names were omitted by Morrison and Morrison. They are included in the present list for the sake of completeness, and notes or corrections are added under a few Amyot names included by Morrison and Morrison.

Morrison and Morrison usually cited the name of a type-species in its original combination but sometimes cited a later combination if one had been used by the describer of the genus. In the latter instances that I have recognized, I have added or substituted the original name combination of the type-species.

Entries in the present list are arranged by the page number of the original publication and are followed by the generic name under which the addition or correction appears. Generic names omitted from the original list are here included in alphabetical sequence following the page number and are marked "(new entry)."

Except for the references given at the end of this list, publications cited may be found in the coccid bibliographies of Morrison and Renk, 1957, and Morrison and Morrison, 1965.

I extend my appreciation to all persons who have informed me of omissions and errors in the 1966 publication and especially to Giovanni De Lotto, Plant Protection Research Institute, Pretoria, South Africa. I am also deeply indebted to Curtis W. Sabrosky, Systematic Entomology Laboratory, U.S. Department of Agriculture, for advice on nomenclatorial problems.

ADDITIONS AND CORRECTIONS

Page

- 2 **Acontonidia**: Change "*triangularia*" to "*triangularis*"
- 3 **Acreagris**: Insert "123," before "pl."
- 5 **Albastaspis**: Change "295" to "275"
- 8 **Anamefiorinia**: Change "*casuarinae*" to "*casuarinae*"
- Anaparaputo**: Change "1961" to "1962"
- 10 **Anisococcus**: Insert "21," before "26."
- Anophococcus**: Add after discussion "This synonymy was indicated by Hoy, 1962: 23, and 1963: 132-133. See discussion under *Anothococcus* Ferris."
- 11 **Anoplaspis** Leonardi, 1898: After "(207)" add "nomen nudum; Leonardi, 1898, in Berlese and Leonardi, Riv. di Patol. Veg. (1897) 6: 131 [289]."
- Antakaspis**: Change "*terminalis*" to "*terminaliae*"
- Antecerococcus**: Change "*punctiferus* Green, 1900," to "*punctiferus* Green, 1901,"
- 13 **Aonidia**: Change "43" to "42"
- Aonidomytilus**: Change "102." to "102-103."
- 16 **Aspidaspis**: Change "45;" to "45, nomen nudum;"
- 20 **Aulacaspis**: Change "1834" to "1833" and insert "C. L." before "Scott"
- Austrolichtensia**: Change "*Lecaniodiaspis*" to "*Lecanodiaspis*" and add after discussion of type-species "Fuller, 1897, first used the name '*Lecanodiaspis* (?) *hakearum*' for the species

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that he later, 1899 : 457, called '*Lichstensia hakearum* sp. n.' In 1899 : 458, he stated, 'In my preliminary list this species is mentioned as a *Lecaniodiaspis* (?) ; . . . '

21 **Balachowskiella**: Change "1956" to "1955"

24 **Boisduvalia**: Change "1822" to "1882"

25 **Brachyscelis**: Insert "Type-species: *Brachyscelis pileata* Schrader, 1863, by subsequent designation by Lindinger, 1937 : 179, through substitution of *Apiomorpha* Rübsaamen for preoccupied *Brachyscelis*."

26 **Caelostoma**: Change "Cockrell" to "Cockerell"

31 **Cephalaspis**: Add after discussion "Borchsenius, 1963 : 1162, accepted the concept of *Cephalaspis* MacGillivray and proposed *Parainsulaspis* to replace the preoccupied name. See discussion under *Parainsulaspis*."

Cercococcus: Insert "H." before "Scott"

32 **Ceroplastes**: Change "*chilensis* Gray, 1827," to "*janeirensis* Gray, 1828,"

34 **Chentraspis**: Change "284, 286;" to "284-286;" and "6:111" to "6:110-111"

35 **Chionaspis**: Insert as first two references "Targioni-Tozzetti, 1868, (separate) Soc. Ital. di Sci. Nat. Atti 11 : 5 ; 1869, 11 : 698, nomen nudum;"

37 **Chnaurococcus**: Insert "22," before "40"

Chortinaspis: Change "46," to "45-46,"

40 **Coccinella**: Insert after second sentence of discussion "Gmelin did not include a species name under *Coccinella*."

Coccinilla (new entry) Amyot, 1847, Soc. Ent. de France Ann. (ser. 2) 5 : 493.

Amyot wrote "*Coccus* ou *Coccinilla*" and included the species name "*cacti* Linn."

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- 41 **Cocconidia**: Change "1758" to "1767" and add after discussion "Under *Cocconidia* Amyot included the species name '*adonidum* Linn.' The latter name stood for the mealybug that has been known erroneously as *Pseudococcus adonidum* (Linnaeus, 1758 or 1767). De Lotto, 1965: 226-228, has shown that there is no *Coccus adonidum* Linnaeus, 1758, that *Coccus adonidum* Linnaeus, 1767, is not a scale insect, and that *Pseudococcus adonidum* auct. is *Pseudococcus longispinus* (Targioni-Tozzetti, 1867)."

Coccopoa: Change "uninomial" to "uninominal" and "1761" to "1758" Insert after first sentence of discussion "In 1758 *phalaridis* was validated by bibliographic reference to the 1746 Fauna Suecica where the species was described as completely as in 1761."

Coccopsidia (new entry) Amyot, 1847, Soc. Ent. de France Ann. (ser. 2) 5: 496.

Amyot proposed this name for *Coccus psidii* Chavannes, thus apparently publishing the name before the description of *psidii* appeared in the 1848 Chavannes publication.

- 43 **Cockerellella**: Change "p. 71." to "pp. 71, 75."

- 45 **Constockiella** (new entry) MacGillivray, 1921, The Coccidae, p. 423.

A lapsus for *Constockiella* Cockerell.

- 46 **Cornimytilus** (new entry) Borchsenius, 1963, Zool. Zhur. 42: 1165.

TYPE-SPECIES: *Lepidosaphes afganensis* Borchsenius, 1962, by original designation and monotypy.

The author indicated a close relationship between this genus and *Lepidosaphes* Shimer and *Eucornuaspis* Borchsenius.

Cornoculus: Insert "78," before "81" and change type-species to read "*Cornoculus cornutus* Ferris, 1955, by monotypy; *Cornoculus oculatus* Ferris, 1955, by original designation, nomen nudum." Insert before discussion "Ferris designated the type-species of this genus as '*Cornoculus oculatus*, new species; the only included species.' However, he described the only included species under the name *C. cornutus*, and did not mention *oculatus* again."

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47 **Crisicoccus**: Insert "22," before "45"51 **Cryptophyllaspis**: Insert as first reference "1897, *in* Leonardi, Riv. di Patol. Veg. 5: 375;"53 **Cyphoma**: Change "*Cyphoma characias*" to "*Orthezia characias*" and delete brackets.**Cystococcus**: Insert as second reference "(1897, Separate, Notes on Coccidae, p. 11)." and change "1902g" to "1902h"54 **Cystococcus** (new entry) Lindinger, 1937, Ent. Jahrb. 46: 182.An alternate spelling for *Cisticoccus* A. Costa.**Dactylopius**: Change "1758" to "1767" and add after discussion "De Lotto, 1965: 226-228, has shown that there is no *Coccus adonidum* Linnaeus, 1758, that *Coccus adonidum* Linnaeus, 1767, is not a scale insect, and that *Pseudococcus adonidum* auct. is *Pseudococcus longispinus* (Targioni-Tozzetti, 1867)."Since it is recognized that *Coccus adonidum* Linnaeus, 1767, the possible type-species of *Dactylopius*, was misidentified, it is most urgent that this case be submitted to the International Commission."55 **Delococcus**: Change "*Formicoccus*" to "*Formicococcus*"57 **Diaprosteci**: Change "1758" to "1767" and add after discussion "De Lotto, 1965: 226-228, has shown that there is no *Coccus adonidum* Linnaeus, 1758, that *Coccus adonidum* Linnaeus, 1767, is not a scale insect, and that *Pseudococcus adonidum* auct. is *Pseudococcus longispinus* (Targioni-Tozzetti, 1867)."

Since the type-species was misidentified, the case should be referred to the International Commission."

59 **Diaspidistus**: Change to "*Diaspidistis*"**Diaspis**: Change "*echinocactus*" to "*echinocacti*"62 **Dorthesia**: Change type-species to read "*Orthezia characias* Bosc d'Antic, 1784, by monotypy, = *Aphis urticae* Linnaeus, 1767." and change "*Coccus urticae* Linnaeus." to "*Orthezia urticae* (Linnaeus)."

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- Dorthesia** (new entry) Signoret, 1869, Soc. Ent. de France Ann. (ser. 4) 8: 833.
- Apparently a lapsus for *Dorthesia* since it appeared twice against seven spellings of *Dorthesia* in Signoret, 1868-77. See discussion under *Dorthesia*.
- 65 **Dynaspidotus**: Change "131," to "131-132,"
- 66 **Emmereziaspis**: Change "*allaudi* de Charmoy" to "*alluandi* Grandpré and Charmoy"
- 71 **Eucornuaspsis** (new entry) Borchsenius, 1963, Zool. Zhur. 42: 1168.
- TYPE-SPECIES: (*Mytilaspis machili* Maskell, 1898) = *Aspidiolus pinnaciformis* Bouché, 1851, currently *Eucornuaspsis pinnaciformis* (Bouché), by original designation.
- Borchsenius, 1966: 58, synonymized *machili* with *pinnaciformis*. He indicated a close relationship between this genus and *Cornuaspsis* Borchsenius.
- 73 **Eulepidosaphes**: Change "384" to "364"
- 74 **Euparlatoria**: Change "*Parlatoria oleae*" to "*Diaspis oleae*"
- 77 **Fernaldiella**: Change first sentence of discussion to read "Leonardi presented this spelling in his generic key (p. 4) and in a list of species (p. 112); other (3) references in his paper were to *Fernaldella*."
- 78 **Ferrisiana**: Insert "Type-species: *Dactylopius virgatus* Cockerell, 1893, by substitution of *Ferrisiana* for *Ferrisia* Fullaway."
- 81 **Froggatiella** (new entry) Morrison and Renk, 1957, U.S. Dept. Agr. Misc. Pub. 734: 129.
- A lapsus for *Froggattiella* Leonardi.
- 82 **Fulbrightia**: Insert "1950," after "*gallicola* Ferris,"
- 84 **Genistaspis**: Change "*zelihiae*" to "*zelihae*"
- 85 **Globulicoccus**: Change type-species to read "*Coccus fuscus* Gmelin, 1789, '*L.[ccanium]* . . . Dougl.' of Lindinger."
- Gossyparia**: Change "*Coccus spurius* Modeer, 1778," to "*Gossyparia spuria* (Modeer, 1778)."

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- 86 **Greenacoccus:** Insert "Type-species: *Monophlebus stebbingii* Stebbing, 1902, by substitution of *Greenacoccus* for *Greeniella* MacGillivray."
- 87 **Greeniella** (non Cockerell, 1897): Change "75, 474." to "459." Insert after first sentence of discussion "*Greeniella* appeared on pp. 70 and 459. The spelling *Greenella* appeared on p. 75, where the type was designated, and on p. 474, where the name was changed to *Greenacoccus*."
- 88 **Greenoripersia:** Change "1921" to "1929"
- Guerinia:** Change "39" to "31"
- Guerinococcus:** Insert "Type-species: *Guerinia tinctoria* Targioni-Tozzetti, 1868, believed to be the same as *Coccus serratulae* Fabricius, 1775, by substitution of *Guerinococcus* for *Guerinia* Targioni-Tozzetti."
- 89 **Haliaspis** (new entry) Takagi, 1963, *Insecta Matsumurana* 26: 118.
- TYPE-SPECIES: *Chionaspis spartinae* Comstock, 1883, by original designation.
- This genus was established to receive three North American species formerly placed in *Duplachionaspis* MacGillivray.
- 90 **Hemiaspidis:** Change "*Hemaspidus*" to "*Hemaspidis*"
- 91 **Hemiberlesiella:** Delete brackets.
- 92 **Hemilecanium:** Insert after first sentence of discussion "Green, 1910: 6-7, indicated that *theobromae* was a synonym of *imbricans*."
- 96 **Incisaspis:** Delete "311," and add after discussion "The spelling *Inciaspis* appeared on p. 311 where the type-species was designated."
- 99 **Kermesoides:** Insert "1869," after "*Targionia nigra* Signoret,"
- 103 **Lakshadia:** Change "*Tachardia lacca* (Kerr), by substitution." to "*Coccus lacca* Kerr, currently *Laccifer lacca* (Kerr)."
- Lattaspidiotus:** Insert "394," before "457-458" and change "de Charmoy," to "Grandpré and Charmoy,"

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- 105 **Lecanodiopsis** (new entry) Lichtenstein and Signoret, 1886, Soc. Ent. de France Ann. (Bul. Ent.) (ser. 6) 6: xxxix.
A lapsus for *Lecanodiaspis* Targioni-Tozzetti. The species involved, *L. dugesii*, is currently placed in *Ceroplastodes* Cockerell.
- 111 **Liucoccus**: Change "*Linococcus chihornioides*" to "*Liucoccus chihornioides*"
Longisomus: Insert "nomen nudum," before "by monotypy."
Lophococcus: Change "1902" to "1901"
- 112 **Luzulaspis**: Insert "!" after "*Aspidiotus*"
Lyraspis: Change "46:" to "46, nomen nudum;" and add after discuss on "Lepage, 1939: 313, stated that in 1939 Ferris (personal communication) informed him that *Lyraspis* was a synonym of *Nireaspis* MacGillivray."
Macracanthopyga: Change "1957, by 87," to "1957b: 66, 1957e: 87."
- 114 **Mallophora**: Change "1896," to "1897,"
- 115 **Marchaliella**: Change "*Monophlebus hellenicus* Gemmadius, 1883," to "*Chionaspis lepineyi* Balachowsky, 1928,"
Marlattaspis: Change "monotypy." to "monotypy, = *Aspidiotus lataniae* Signoret, 1869." Change "Signoret." to "(Signoret)."
- 116 **Maskellia**: Insert as second and fourth references "(1897, Misc. Pub. 177: 1-2); (1897, Separate, Notes on Coccidae, p. 5)."
Maskelliella (new entry) Ferris, 1937, Microentomology 2: 4.
A lapsus or emendation for *Maskelliella* Leonardi. See discussion under *Maskelliella*.
- 122 **Mixorthezia**: Change "1926" to "1925"
- 123 **Moluscococcus**: Change to "*Molluscococcus*"
- 125 **Murataspis**: Change "*megaporus* Balachowsky" to "*megapora* Balachowsky, 1928,"

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126 **Mycococcus:** Change "*copernicae*" to "*coperniciae*"**Mytilaspis:** Change "1798" to "1789"127 **Mytilella:** Insert "4," before "20"128 **Najococcus:** Change "Lindinger" to "Green"**Natalaspis:** Insert "unnamed" before "var."130 **Neogreenia:** Insert before discussion "The name *Paragreenia* appeared on p. 78 where the type-species was designated."132 **Neopulvinaria:** Change "*imertina*" to "*imeretina*"136 **Nuculaspis:** Insert "75," after "45,"137 **Odonaspis:** Change "284" to "284-286"138 **Onceropyga:** Insert "78," before "208"141 **Ourococcus:** Insert "Separate," before "Notes"144 **Parafairmairia:** Change "1876" to "1872"145 **Parainsulaspis** (new entry) Borchsenius, 1963, Zool. Zhur. 42: 1162.

TYPE-SPECIES: *Mytilaspis cocculi* Green, 1896, through substitution of *Parainsulaspis* for *Cephalaspis* MacGillivray.

Borchsenius erroneously designated *Lepidosaphes laterochitinsa* Green, 1925, as the type-species. The describer proposed this name as a replacement for *Cephalaspis* MacGillivray, 1921, a name preoccupied in Pisces. He included *Mytilaspis cocculi* Green, 1896, the type-species of *Cephalaspis* MacGillivray, in *Parainsulaspis* but designated *Lepidosaphes laterochitinsa* as the type of his genus, a species not included in *Cephalaspis*. Under the provisions of Article 67(i) of the International Code of Zoological Nomenclature, *cocculi* Green becomes the type-species of *Parainsulaspis*. Borchsenius indicated a close relationship between this genus and *Paralepidosaphes* Borchsenius and *Insulaspis* Mamet.

146 **Paraonidea:** Change "394" to "454"147 **Parasaissetia:** Change type-species to read "*Lecanium nigrum* Nietner, 1861, currently *Saissetia nigra* (Nietner)."**Paraselenaspidus:** Change "1953" to "1954"

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151 **Pelomphala**: Change "292" to "392"152 **Phaulaspis**: Change "284" to "284-286"153 **Phenacaspis**: Change "38" to "48"156 **Pinaspis** (new entry) Lindinger, 1942, in Titschack Beit. z. Fauna Perus 2: 126.A lapsus or emendation for *Pinnaaspis* Cockerell.**Pinomytilus** (new entry) Borchsenius, 1963, Zool. Zhur. 42: 1173.TYPE-SPECIES: *Lepidosaphes pseudotsugae* Takahashi, 1957, by original designation and monotypy.The describer indicated a close relationship between this genus and *Eucornuaspis* Borchsenius and *Cornimytilus* Borchsenius.**Pistaciaspis** (new entry) Borchsenius, 1963, Zool. Zhur. 42: 1165.TYPE-SPECIES: *Lepidosaphes pistaceae* Arhangel'skaya, 1930, by original designation.The describer indicated a close relationship between this genus and *Lepidosaphes* Shimer.157 **Planococcoides**: Change "Laing, 1956" to "Laing, 1929"**Planococcus**: Change type-species to read "*Dorthesia citri* Risso, 1813, as interpreted by Ferris, 1950, by original designation."160 **Porphyrophora**: Change "1883" to "1833"162 **Protargionia** (new entry) Ferris, 1937, Microentomology 2: 106.A lapsus for *Partargionia* MacGillivray.163 **Pseudaonidea** (new entry) MacGillivray, 1921, The Coccidae, p. 453.A lapsus for *Pseudaonidia* Cockerell.164 **Pseudaulacaspis**: Change "*Aulacaspis*" to "*Diaspis*"

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- 165 **Pseudococcus:** Change type-species to read "*Dactylopius longispinus* Targioni-Tozzetti, 1867, by subsequent designation of Fernald, 1903b: 96." Add after discussion "De Lotto, 1965: 226-228, has shown that *Coccus adonidum* Linnaeus, 1767, is not a scale insect, and that *Pseudococcus adonidum* auct. is *Pseudococcus longispinus* (Targioni-Tozzetti, 1867)."
- 169 **Pterolecanium:** Change "48" to "47-48" and insert "*(Eulecanium)*" before "*pulchrum*"
- Pulvinariella:** Change "1830" to "1829"
- 170 **Pulvinella:** Insert "*(Pulvinella)*" before "*pulchella*" and "J. P." before "da Fonseca"
- 172 **Radiaspis:** Insert as first reference "1938, Microentomology 3: 45, 75, nomen nudum;"
- 175 **Rhodococcus:** Change "*rosaelutea*" to "*rosaeluteae*"
- 176 **Ripersiella:** Insert "*in* Cockerell," before "1899"
- 178 **Saccharicoccus:** Change "1893" to "1895"
- 179 **Sakarmyaspis:** Change "Mamet, 1953," to "Mamet, 1954,"
- Sasakiaspis:** Change "1885" to "1886"
- 180 **Schizentaspis:** Change "*Schizentapidus*" to "*Schizentaspis*"
- Schizochlamys:** Change "1900" to "1899"
- 182 **Selenaspis:** Delete brackets.
- 183 **Signoretia:** Change "Stål, 1869" to "Targioni-Tozzetti, 1868" and add "by monotypy" after "1864"
- 184 **Signoretia:** Change reference to read "1868, (separate) Soc. Ital. di Sci. Nat. Atti 11: 25; 1869, 11: 699."
- 185 **Solenophora:** Change "Maskell, 1899," to "Maskell, 1890,"

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Spaerolecanium (new entry) Leonardi, 1908, (non Sülc, 1908), Portici R. Scuola Super. di Agr. Lab. Zool. Gen. e Agr. Bol. 3: 180.

Apparently a lapsus for *Sphaerolecanium*. This spelling appeared on p. 180. *Sphaerolecanium* appeared on p. 181, in Leonardi, 1918: 213, and in Silvestri, 1920: 312.

186 **Sphaerococcopsis**: Change "*Sphaerococcopsis inflatipes*" to "*Sphaerococcus inflatipes*"

187 **Sphaerolecanium**: Change "180-181." to "181." Add after discussion "This spelling appeared on p. 181, in Leonardi, 1918: 213, and in Silvestri, 1920: 312. The spelling *Spaerolecanium* appeared on p. 180."

190 **Suturaspis**: Change "268" to "262-263"

Symeria: Change "*Lepidosaphes epiphytidis* (Maskell)" to "*Mytilaspis epiphytidis* Maskell"

191 **Tachardia**: Insert "R." before "Blanchard"

192 **Talla**: Change type-species to read "*Lecanium quercus* Réaumur ('gallinsecte en forme de rein,' Réaumur, 1738: 79) of von Heyden, 1860=*Coccus quercus* Linnaeus, 1758, currently *Kermes quercus* (Linnaeus), by monotypy." Insert before discussion "This insect was named *quercus* by Linnaeus in 1758 when he referred to Réaumur's figures of the 'gallinsecte' on oak."

193 **Tecaspis**: Change "*umtali*" to "*umtali*"

196 **Tozzetia**: Change to "*Tozzettia*"

197 **Trachycoccus**: Insert "78," before "215"

Trechocorys: Change "monotypy." to "monotypy,=*Dactylopius longispinus* Targioni-Tozzetti, 1867, through misidentification of *Coccus adonidum* Linnaeus, 1767." Add after discussion "De Lotto, 1965: 226-228, has shown that *Coccus adonidum* Linnaeus, 1767, is not a scale insect, and that *Pseudococcus adonidum* auct. is *Pseudococcus longispinus* (Targioni-Tozzetti, 1867). Since the type-species was misidentified, the case should be referred to the International Commission."





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