Scale insect genus-group names and their families
(Hemiptera: Sternorrhyncha: Coccoidea)

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Abstract

Genus names of the scale insects (Hemiptera: Coccoidea) are listed with their current families. The list includes all generic names that are currently valid with synonyms, unjustified emendations, homonyms, nomia nuda and misspellings. The list has been compiled from many sources as discussed in the introduction. This is the first list to be prepared in recent years of all generic names and it is in alphabetical order.

Key words: genera, families, scale insects, list

Introduction

This list of genus names in the superfamily Coccoidea or scale insects, together with their assignment to the 49 families presently recognized in the superfamily, has been compiled from many sources. Although the names can be found in recent printed catalogues and in ScaleNet, an online database of the scale insects (Ben-Dov et al., 2013), the names are scattered. At present, there is no single complete list of genera and their families, and it is hoped that the present list will help new students of the group and anyone else interested in scale insects. The list has been kept simple and includes present valid names, synonyms, unjustified emendations, nomia nuda, misspellings and homonyms. Further information on all these names can be found in the recent catalogues.

Works checked include that by Signoret (1869), one of the first lists to be published after Linnaeus (1758). Signoret’s paper was followed by a catalogue of scale insects of the world by Fernald (1903) and, despite its age, it is still widely used for important information on early authors and names and for many new combinations. Another work on scale insects of the world was by MacGillivray (1921). This was more than a catalogue but rather a textbook with keys to genera and species. It included many new genera as shown in the present list. The work was described by Ferris (1957) as “nothing more than a calamity” but it cannot be ignored. Lindinger (1937) listed genera and their synonyms but many of the synonyms proposed have not been accepted. Catalogues of the family Eriococcidae by Hoy (1963) and of the armoured scale insects (Diaspididae) by Borchsenius (1966) set new standards in more modern times and both are referred to frequently. An annotated list of generic names in the scale insects by Morrison & Morrison appeared in 1966 and has proved invaluable to scale insect workers. This was followed by supplements compiled by Russell (1970), Kosztarab & Russell (1974), and Kosztarab et al. (1986). There have been short lists on lac insects by Kapur (1958) and by Varshney (1990) and a catalogue of Palaearctic scale insects by Kozár (1998).

Recent printed catalogues that have been widely used in compiling the present list include Ben-Dov (1993) (Coccidae); Ben-Dov (1994) (Pseudococcidae); Miller & Gimpel (2000) (Eriococcidae); Ben-Dov (2005) (Margarodidae sensu Morrison (1928)); Ben-Dov & German (2003) and Miller & Gimpel (2009) (Diaspididae); and Miller et al. (2005) and Ben-Dov (2006) which cover all the remaining smaller families. All of these catalogues have been updated in the online database ScaleNet (Ben-Dov et al., 2013).

The present list does not include the genus Chermes Linnaeus. Since Linnaeus (1758) described it and provided distinct characters separating it from Coccus Linnaeus, this name has been in use for many species of scale insects for well over 100 years. However, the name Chermes has now been replaced by Psylla Geoffroy in the superfamily Psylloidea and is discussed more fully by Favret et al. (2014). The genus-group names Naibia Shcherbakov, Coccavus Shcherbakov and Panirena Shcherbakov, claimed by Shcherbakov (2007) to be scale insect stem groups and placed in the family Naibiidae, are also excluded because their position in the scale insects has been disputed by Gullan & Cook (2007).
References


