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## **Unresolved cases of type fixation, synonymy and homonymy in harpacticoid copepod nomenclature (Crustacea: Copepoda)**

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## Abstract

Type fixation for each of the 601 valid genera (17 placed *incertae sedis*) and 13 genera of doubtful identity (*genera inquirenda*) in the Harpacticoida (Crustacea, Copepoda) has been verified. Twenty-four genus-group names published after 1930 lack the mandatory type fixation and are therefore unavailable. With the exception of *Kliopsyllus* Kunz, 1962 which is replaced by its senior synonym *Emertonia* Wilson, 1932, such names are made available here by either attributing the original name to the first author(s) who explicitly fixed a type species (*Psammastacus* Nicholls, 1935; *Alteuthellopsis* Lang, 1944; *Idyellopsis* Lang, 1944; *Paralaophonte* Lang, 1944; *Robertgurneya* Lang, 1944; *Cladorostrata* Shen & Tai, 1963; *Micropsammis* Mielke, 1975; and the subgenera *Rheocamptus* Borutzky, 1948 and *Scottopsyllus* Kunz, 1962;) or by adopting the name taking the present authorship and date (*Paranannopus* Lang, 1936a; *Paraidya* Sewell, 1940; *Apodopsyllus* Kunz, 1962; *Scottolana* Por, 1967; *Barbaracletodes* Becker, 1979; *Ameiropsyllus* Bodin, 1979; *Chilaophonte* Mielke, 1985; *Psammonitocrella* Rouch, 1992; *Tectacingulum* Harris, 1994; and the subgenera *Intermedopsyllus* Kunz, 1962 (corrected spelling *Intermediopsyllus*) and *Fiersiella* Suárez Morales & Iliffe, 2005). In two cases a ruling by the International Commission on Zoological Nomenclature will be required to avoid upsetting a long-accepted name in its accustomed meaning (*Halectinosoma* Lang, 1944; *Heterolaophonte* Lang, 1944). The recently proposed generic name *Pilocamptus* Wells, 2007 does not satisfy the provisions of ICZN Art. 13.1 and is here made available by explicit citation of a bibliographic reference that provides a diagnosis purported to differentiate the taxon. *Rhizothrix* Brady & Robertson, 1876 is an unavailable name which was first made available by Sars (1909a). The unavailable generic name *Scottopsyllus* Kunz, 1962 has no potentially valid synonym and is replaced by the next oldest available name from among its subgenera, i.e. *Wellsopsyllus* Kunz, 1981 (ICZN Art. 23.3.5). The unavailable subgeneric name *Psylocamptus* (*Langpsylocamptus*) Kunz, 1975b is not reinstated because it denotes a taxon that is based exclusively on plesiomorphies.

New replacement names have been proposed for preoccupied generic names in the harpacticoid families Canthocamptidae (*Poria* Lang, 1965; *Dahlakia* Por, 1986a), Dactylopusiidae (*Sewellia* Lang, 1965), and Leptopontiidae (*Ichnusella* Cottarelli, 1971). The preoccupied generic name *Anoplosoma* Sars, 1911c (family Ameiridae) is replaced by a previously proposed, but subsequently forgotten, replacement name, *Anoplosomella* Strand, 1929. *Nomina nova* are also suggested for *Parathalassius* Dussart, 1986 (Calanoida: Centropagidae) and *Berea* Yamaguti, 1963 (Cyclopoida: Chondracanthidae) which have entered into homonymy with previously established names.

The junior synonym *Alteutha* Baird, 1846b is considered valid, taking precedence as a *nomen protectum* over the older names *Sterope* Goodsir, 1845 and *Carillus* Goodsir, 1845 (*nomina oblita*). Similar reversal of precedence applies to the family-group names Peltidiidae Claus, 1860 and Tisbidae Stebbing, 1910 which are junior subjective synonyms of Steropinae Dana, 1854 and Scutellidiinae Claus, 1889, respectively. Since the type of *Idomene* Philippi, 1843 is identified as a member of the Clausidiidae (Cyclopoida), the generic name *Xouthous* Thomson, 1883 is reinstated to accommodate all remaining species currently placed in *Idomene*. The forgotten copepod genus *Microchelonia* Brady, 1918 is placed in the family Laophontidae and considered a senior subjective synonym of *Namakosiramia* Ho & Perkins, 1977.

The family-group name Pontostratiotidae A. Scott, 1909 (type: *Pontostratiotes* Brady, 1883) is a senior subjective synonym of Cerviniopseinae Brotskaya, 1963 (type: *Cerviniopsis* Sars, 1903) and the former is consequently reinstated at the subfamilial level. The family-group name Huntemanniidae Por, 1986a (type: *Huntemannia* Poppe, 1884) is a junior subjective synonym of Nannopinae Brady, 1880a (type: *Nannopus* Brady, 1880a) and the latter is reinstated as the valid name at family rank and with the spelling corrected to Nannopodidae. The family-name Paranannopinae Por, 1986a is a *nomen nudum* based on an unavailable generic name and is replaced by Danielsseniinae Huys & Gee in Huys *et al.*, 1996.

Four orphaned taxonomic groupings created by the removal of the type species – but not of the remaining species included in a genus – require an existing (previously invalid) or new generic name. *Amphiascus* Sars, 1905a is a senior objective synonym of *Paramphiascopsis* Lang, 1944 and must be restricted to the species currently included in the latter; a new genus *Sarsamphiascus* (type: *Dactylopus minutus* Claus, 1863) is proposed to receive all remaining *Amphiascus* species. The new generic names *Monardius* gen. nov. and *Glabrotelson* gen. nov. are proposed for the orphaned taxonomic groupings resulting from the removal of the types of *Teissierella* Monard, 1935a to *Robertsonia* Brady, 1880a, and of *Hastigerella* Nicholls, 1935 to *Arenosetella* Wilson, 1932, respectively. *Leptomesochra* Sars, 1911b is a senior subjective synonym of *Interleptomesochra* Lang, 1965 and must be restricted to the latter's taxonomic concept; the previously unavailable generic name *Leptameira* Lang, 1936d is reinstated under the present authorship and date to assemble all remaining *Leptomesochra* species.