

Case 3555

CHILODONTIDAE Macalister, 1876 (Ciliophora), CHILODONTINAE Eigenmann, 1910 (Pisces, Characiformes), and CHILODONTINAE Wenz, 1938 (Mollusca, Gastropoda): proposed resolution of homonymy between family-group names

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Abstract. The purpose of this application, under Articles 29 and 55 of the Code, is to remove the homonymy between the family-group names CHILODONTIDAE Macalister, 1876 (type genus *Chilodon* Ehrenberg, 1834 [Ciliophora]), CHILODONTINAE, an emendation of CHILODINAE Eigenmann, 1910 (type genus *Chilodus* Müller & Troschel, 1844 [Pisces]), and CHILODONTINAE Wenz, 1938 (type genus *Chilodonta* Étallon, 1859 [Gastropoda]). It is proposed to place the unused name CHILODONTIDAE Macalister, 1876 on the Official Index; to place the name CHILODONTINAE Eigenmann, 1910, as emended by Fowler (1950), on the Official List; and that the stem of the generic name *Chilodonta* Étallon, 1859 be deemed to be *Chilodonta*-, such that the name CHILODONTINAE Wenz, 1938 is emended to CHILODONTAINAE Wenz, 1938.

Keywords. Nomenclature; taxonomy; Ciliophora; Pisces; Characiformes; Vetigastropoda; SEGUENZIOIDEA; CHILODIDAE; CHILODONTIDAE; CHILODONELLIDAE; homonymy; ciliates; fish; gastropods.

1. The family-group name CHILODONTIDAE was established by Macalister (1876, p. 71), based upon the type genus *Chilodon* Ehrenberg, 1834, for a group of ciliate protozoans. Strand (1928, p. 31), because of a perceived homonymy between *Chilodon* Ehrenberg, 1831 [Mollusca] and *Chilodon* Ehrenberg, 1834, established *Chilodonella* Strand, 1928 as a substitute name for the latter, and Deroux (1970, p. 180) established the name CHILODONELLINAE based on *Chilodonella* Strand, 1928. *Chilodon* Ehrenberg, 1831 is in fact a nomen nudum [no description, no included nominal species, and no indication], and *Chilodon* Ehrenberg, 1834 and CHILODONTIDAE Macalister, 1876, remain potentially valid names.

2. The family-group name CHILODINAE was established by Eigenmann (1910, p. 424), based on the type genus *Chilodus* Müller & Troschel, 1844, for a group of characiform fish. The name *Chilodus* Müller & Troschel, 1844, with the type species *Chilodus punctatus* Müller & Troschel, 1844 by monotypy, has been placed on the Official List of Generic Names in Zoology by Opinion 1150 (BZN 37(2): 72–74, June

1980). The spelling of CHILODINAE was later emended by Fowler (1950), on the grounds of classical grammar, to CHILODONTINAE.

3. The gastropod family-group name CHILODONTINAE was established by Wenz (1938, p. 296), based on the type genus *Chilodonta* Étallon, 1859 (type species *Chilodonta clathrata* Étallon, 1859, by subsequent designation of Bayan, 1874, p. 335).

4. Both CHILODONTINAE (attributed to Eigenmann, 1910) and CHILODONTINAE Wenz, 1938 are in current use, usually at family level. Usage of the names *Chilodon* Ehrenberg, 1834 and CHILODONTIDAE Macalister, 1876 has been discontinued, and the substitutes *Chilodonella* Strand, 1928 and CHILODONELLINAE Deroux, 1970 (raised to family rank by Corliss, 1977, p. 119) are in current use (e.g. Corliss, 1979; Foissner, 1979, 1988; Lynn, 2010). However, as *Chilodon* Ehrenberg, 1834 and CHILODONTIDAE Macalister, 1876 remained in use well into the 20th century (e.g. Kudo, 1931, p. 354, where the family name was attributed in error to Bütschli), they cannot be declared nomina oblita under Article 23.9.2 of the Code.

5. Although there is nothing in Müller & Troschel's description of *Chilodus* that suggests that the name was based on the Greek *odous* (a tooth), Fowler (1950) emended the fish name CHILODINAE to CHILODONTINAE because the genitive singular of *odous* is *odontos*, and thus the stem for the family name would be *Chilodont-*. This interpretation was seconded by Steyskal (1980), who insisted that fish names ending in *-odus* have a stem in *-odont-*. The latinisation of the Greek *odous* to *odus* is a simple transliteration of the Greek diphthong *-ou-* to *-u-* (cf. Grensted & Chester Bradley, 1985) and does not constitute a 'change of ending' in terms of Article 29.3.2 of the Code. If one accepts this etymology of *Chilodus*, then the genitive stem of *Chilodus* is indeed *Chilodont-* (Article 29.3.1 of the Code) as claimed by Fowler (1950) and his emendation is justified. Although Géry (1977) persisted in using CHILODINAE, making it explicit that it was intentional, after Steyskal (1980), the spelling CHILODONTINAE has become the accepted one, usually at family level (see, e.g. Vari, 1983; Isbrücker & Nilssen, 1988; Vari et al. 1995; Eschmeyer, 1998; Martins et al., 2000; Reis et al., 2003; Calcagnotto et al., 2005; Nelson, 2006; Berra, 2007; Mirande, 2010). It is also consistent with the formation of other fish family-group names e.g. DISTICHODONTIDAE (based on *Distichodus* Müller & Troschel 1844), HEMIODONTIDAE (based on *Hemiodus* Müller, 1842) and PROCHILODONTIDAE (based on *Prochilodus* Agassiz, 1829).

6. The gastropod name CHILODONTINAE was not initially widely used. However, since the publication of Hickman & McLean (1990), it has received increasing usage in the literature pertaining to Recent and fossil vetigastropods, initially as a tribe within the trochoidean EUCYCLINAE (Hickman & McLean, 1990, Hickman, 1996, 1998; Kiel & Bandel, 2001), and more recently as a family (Bouchet & Rocroi, 2005; Poppe et al., 2006; Kano, 2008; Williams et al. 2008; Kano et al. 2009; Bandel, 2010) within the SEGUENZIOIDEA. CHILODONTINAE Wenz, 1938 has no synonym (see Bouchet & Rocroi, 2005).

7. The International Commission on Zoological Nomenclature is accordingly asked:

(1) to use its plenary power:

(a) to rule that the name *Chilodon* Ehrenberg, 1834 is suppressed for the Purposes of the Principle of Priority but not for those of the Principle of Homonymy;

- (b) to rule that the name CHILODONTIDAE Macalister, 1876 is suppressed for the purposes of both the Principle of Priority and the Principle of Homonymy;
- (c) to rule that CHILODONTINAE as emended by Fowler (1950) is a justified emendation of the original spelling CHILODINAE Eigenmann, 1910;
- (d) to rule that for the purposes of Article 29 of the Code, the stem of the generic name *Chilodonta* Étallon, 1859 is *Chilodonta*-;
- (2) to place on the Official List of Family-Group Names in Zoology the following names:
 - (a) CHILODONELLINAE Deroux, 1970 (type genus *Chilodonella* Strand, 1928) (Ciliophora);
 - (b) CHILODONTINAE Eigenmann, 1910 (type genus *Chilodus* Müller & Troschel, 1844) (Pisces);
 - (c) CHILODONTAINAE Wenz, 1938 (type genus *Chilodonta* Étallon, 1859) (spelling emended by the ruling in (1)(d) above) (Mollusca);
- (3) to place on the Official Index of Rejected and Invalid Family-Group Names in Zoology the following names:
 - (a) CHILODONTIDAE Macalister, 1876, as suppressed by the ruling in (1)(b) above (Ciliophora);
 - (b) CHILODONTINAE Wenz, 1938 (junior homonym of CHILODONTINAE Eigenmann, 1910 spelling emended to CHILODONTAINAE by the ruling in (1)(d) above (Mollusca).

Acknowledgements

We thank Maurice Kottelat (*Cornol, Switzerland*), Sven Kullander and Anders Warén (*Swedish Museum of Natural History*), Gary Rosenberg (*Academy of Natural Sciences, Philadelphia*), and Richard Vari (*Smithsonian Institution, Washington, D.C.*) for their input. We also acknowledge the contribution of an anonymous Commissioner regarding the finer points of transliteration and latinisation.

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Acknowledgement of receipt of this application was published in BZN **68**: 93

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Herbert, D G and Bouchet, Philippe. 2011. "Case 3555 chilodontidae Macalister, 1876 (Ciliophora), chilodontinae Eigenmann, 1910 (Pisces, Characiformes), and chilodontinae Wenz, 1938 (Mollusca, Gastropoda): proposed resolution of homonymy between family-group names." *The Bulletin of zoological nomenclature* 68(3), 175–179.

<https://doi.org/10.21805/bzn.v68i3.a9>.

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