

*Short notes and Reviews****Mirabella*, a new name for the genus *Mirabella* De Bruijn *et al.*, 1987 (Mammalia), preoccupied by *Mirabella* Emeljanov, 1982 (Insecta)**

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De Bruijn *et al.* (1987) described a new genus of cricetid-like muroid rodent, *Mirabella*, from the eastern Mediterranean. The type species is *M. tuberosa* from the Early Miocene locality of Aliveri (Island of Evia, Greece). The name had already appeared in Benda and De Bruijn (1982), but only as a *nomen nudum*. Apart from the type species, De Bruijn *et al.* (1987) also defined *M. intermedia* from the Anatolian locality of Harami I. However, this species was transferred subsequently to *Deperetomys* (De Bruijn *et al.*, 1993). Instead, another *Mirabella*, *M. anatolica*, was described, also from Harami I, as well as *M. crenulata* from the somewhat younger locality of Keseköy (De Bruijn and Saraç, 1992). The presence of the genus in two central European localities was also noted therein. The original classification in the Eucricetodontinae, partly based on the species *intermedia*, was changed into Paracricetodontinae. Unfortunately, Kalthoff (2000, 2006) did not analyse the microstructure of the lower incisors of *Mirabella*, so its allocation remains uncertain for the time being.

However, the name *Mirabella* had already been used for a homopteran from Mongolia (Emeljanov, 1982). The type species of this genus is the extant *Mirabella albifrons* (Fieber, 1866) from eastern and northern mainland Europe (Fauna Europaea, 2007).

For completeness, it is also relevant to mention that Barskova (1988a; English translation Barskova, 1988b) described a small suite of fossil molluscs from the Kolyma Uplift in eastern Asia. One new genus was erected, *Mirabella*, assigned to ‘Класс Gastropoda? inc[ertae] sed[is]’ (Barskova, 1988a, p. 104). The shelly *Mirabella* was based on a few specimens of a single species, *Mirabella ridicula* Barskova, 1988a, from the Atdabanian (Lower Cambrian) exposed in the ‘lower reaches of the Bolshaya Stolbovaya River’ (Barskova,

1988b, p. 102). However, *Mirabella* Barskova, 1988a, is a junior synonym of *Micrina* Laurie, 1986 (P. Parkhaev, written comm. to L.W.v.d.H.O., March 2007), although the species *ridicula* was not listed as an ‘other species’ in the recent discussion by Li and Xiao (2004, p. 909).

The authors of these taxa, in erecting a generic name that linked a Cambrian snail, a Miocene hamster and an extant plant-sucking bug, apparently considered the morphology of their respective type species to be aberrant, which lead to the use of the same name (*Mirabella* = miraculous, L.). The homonymy of the hamster and the snail was discovered while entering information into the Paleobiological Database; one of our reviewers drew our attention to that of the homopteran (S. Bengtson, written comm., March 2007). The description of both the homopteran and the hamster *Mirabella* comply by the requirements of the International Code of Zoological Nomenclature. Thus, *Mirabella* De Bruijn *et al.*, 1987, is a junior homonym of *Mirabella* Emeljanov, 1982. We therefore propose the name *Mirabella* nom. nov. for *Mirabella* De Bruijn *et al.*, 1987, not Emeljanov, 1982. The new name attempts to preserve the sense of the original by a minor modification of the spelling. The type species of *Mirabella* is *Mirabella tuberosa* De Bruijn *et al.*, 1987, by original designation.

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References

- Barskova MI. 1988a. Novyye mollyuski iz nizhnemkembriyskikh otlozheniy prikolymskogo podnyatiya. *Paleontologicheskij Zhurnal* 1988: 101-105. [In Russian.]
- Barskova MI. 1988b. New Lower Cambrian mollusks from the Kolyma Uplift. *Paleontological Journal* 22: 98-104. [English translation of Barskova, 1988a.]
- Benda L, Bruijn H De 1982. Biostratigraphic correlations in the Eastern Mediterranean Neogene. Part 7. Calibration of spore-morph and rodent-associations in the Aliveri-Kymi basin (Island of Euboea (Greece)). *Newsletters on Stratigraphy* 11: 128-135.
- Bruijn H De, Fahlbusch V, Saraç G, Ünay E. 1993. Early Miocene rodent faunas from the eastern Mediterranean area Part III. The genera *Deperetomys* and *Cricetodon* with a discussion of the evolutionary history of the Cricetodontini. *Proceedings van de Koninklijke Nederlandse Akademie van Wetenschappen* 96: 151-216.
- Bruijn H De, Saraç G. 1992. Early Miocene rodent faunas from the eastern Mediterranean area Part II. *Mirabella* (Paracricetodontinea, Muroidea). *Proceedings van de Koninklijke Nederlandse Akademie van Wetenschappen* 95: 25-40.
- Bruijn H De, Ünay E, Saraç G, Klein Hofmeijer G. 1987. An unusual new eucricetodontine from the Lower Miocene of the Eastern Mediterranean. *Proceedings van de Koninklijke Nederlandse Akademie van Wetenschappen, Series B* 90: 119-132.
- Emeljanov AF. 1982. Fulgoroidea (Homoptera) collected in the Mongolian People's Republic by the entomofaunistic group of the Soviet-Mongolian complex biological expedition in 1970-1975. *Nasekomye Mongolii* 8: 69-122. [In Russian.]
- Fauna Europaea. 2007. Distribution. Version 1.3 (updated 19 April 2007). www.faunaeur.org/distribution_table. [Visited 6 July 2007.]
- Fieber FX. 1866. Grundzüge der generischen Theilung der Delphacini. *Verhandlungen der Kaiserlich Königlich Zoologisch-Botanischen Gesellschaft in Wien* 16: 517-534. [Not seen.]
- Kalthoff, DC. 2000. Die Schmelzmikrostruktur in den Incisiven der hamsterartigen Nagetiere und anderer Myomorpha (Rodentia, Mammalia). *Palaeontographica A* 259: 1-193.
- Kalthoff, DC. 2006. Incisor enamel structure and its implications to higher-level systematics of Eurasian Oligocene and Early Miocene hamsters (Rodentia). *Palaeontographica A* 277: 67-80.
- Laurie JR. 1986. Phosphatic fauna of the Early Cambrian Todd River Dolomite, Amadeus Basin, central Australia. *Alcheringa* 10: 431-454.
- Li G, Xiao S. 2004. *Tannuolina* and *Micrina* (Tannuolinidae) from the Lower Cambrian of eastern Yunnan, South China, and their scleritome reconstruction. *Journal of Paleontology* 78: 900-913.

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