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A Phylogeny and Classification of the Senticaudata subord. nov. Crustacea: Amphipoda)

J. K. LOWRY, A. A. MYERS

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Abstract

The Amphipoda includes a large clade defined by the presence of a previously unrecognised synapomorphy, apical robust setae on the rami of uropods 1–2. We term this clade the Senticaudata subord. nov. (Latin: *sentis* = thorn). It includes almost all freshwater species as well as a number of marine benthic taxa, formerly part of the 'Gammaridea'. The phylogeny of the senticaudates was determined by cladistic analysis of morphological characters and character states. Within the suborder Senticaudata there are six infraorders: Carangoliopsida, Talitrida, Hadziida, Corophiida, Bogdiellida and Gammarida. A classification is provided and all the senticaudate families are diagnosed. We introduce for the first time in amphipod classification, the level parvorder between infraorder and superfamily. Four new families are described: Kairosidae; Eriopisidae; Nuuanuidae and Kerguelenioliidae.



Keywords

Crustacea, Phylogeny, Classification, Amphipoda, New Suborder, Senticaudata, New Infraorders, Bogdiellida, Carangoliopsida, Corophiida, Gammarida, Hadziida, Talitrida, New Parvorders, Bogdiellidira, Caprellidira, Carangoliopsidira, Corophiidira

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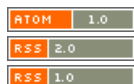
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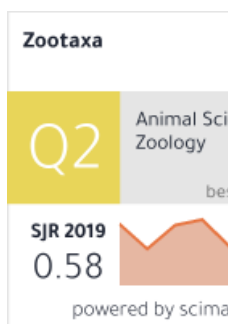
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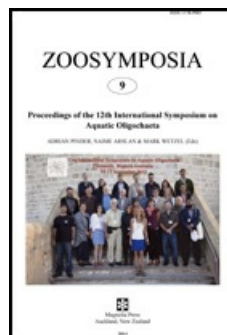
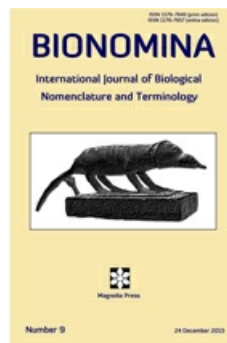
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The classification of the Amphipoda is however being rearranged to better reflect their phylogeny, the relationships within the suborder Gammaridea having suffered from the most confusion. A new classification has been developed in the works of Lowry & Myers, where a new large suborder Senticaudata was split off from the Gammaridea in 2013.[14][15] That taxon, which also encompasses the previous Caprellidea, now comprises over half of the known amphipod species.[12] The classification given below, from the rank of suborder down to superfamily, however still represents. "A phylogeny and classification of the Senticaudata subord. nov. (Crustacea: Amphipoda)" (PDF). *Zootaxa*. The Amphipoda includes a large clade defined by the presence of a previously unrecognised synapomorphy, apical robust setae on the rami of uropods 1-2. We term this clade the Senticaudata subord. nov. (Latin: sentis = thorn). It includes almost all freshwater species as well as a number of marine be ... Crustacea: Amphipoda). *Zootaxa*. 2013 Feb 5;3610:1-80. doi: 10.11646/zootaxa.3610.1.1. The Amphipoda includes a large clade defined by the presence of a previously unrecognised synapomorphy, apical robust setae on the rami of uropods 1-2. We term this clade the Senticaudata subord. nov. (Latin: sentis = thorn). It includes almost all freshwater species as well as a number of marine benthic taxa, formerly part of the 'Gammaridea'. The phylog-eny of the senticaudates was determined by cladistic analysis of morphological characters and character states.

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