

**Comment on “*Aysheaia prolata* from the Utah Wheeler Formation (Drumian, Cambrian) is a frontal appendage of the radiodontan *Stanleycaris*” by Stephen Pates, Allison C. Daley, and Javier Ortega-Hernández**

José A. Gámez Vintaned and Andrey Y. Zhuravlev

*Acta Palaeontologica Polonica* 63 (1), 2018: 103-104 doi:<http://dx.doi.org/10.4202/app.00335.2017>

Pates et al. (2017) and Pates and Daley (2017) reinterpreted a number of presumable xenusians (lobopodians) and described some new fossils from various Cambrian Lagerstätten as radiodontan (anomalocaridid) frontal appendages. The authors suggested that some features including overall length of a specimen, a number of tentative podomeres, a number of ventral blades (spines) and dorsal spines, their morphology, and an angle between the dorsal and ventral surfaces ( $\theta$ ) of a specimen provide enough information for a fairly good morphological description and a relevant systematic interpretation of stem group ecdysozoans. The case of xenusian *Mureropodia apae* from the lower Cambrian Valdemiedes Formation of Murero, northeastern Spain (Gámez Vintaned et al. 2011), which Pates and Daley (2017) identified as radiodontan *Caryosyntrops* cf. *camurus*, does not verify a plausibility of such a reductive approach.

José A. Gámez Vintaned [[gamez@unizar.es](mailto:gamez@unizar.es)], Department of Geosciences, Faculty of Geosciences & Petroleum Engineering, Universiti Teknologi PETRONAS (UTP), 32610 Bandar Seri Iskandar (Tronoh), Perak, Malaysia. Andrey Y. Zhuravlev [[ayzhur@mail.ru](mailto:ayzhur@mail.ru)], Department of Biological Evolution, Faculty of Biology, Lomonosov Moscow State University, Leninskie Gory 1(12), Moscow, 119234, Russia.

This is an open-access article distributed under the terms of the Creative Commons Attribution License (for details please see [creativecommons.org](http://creativecommons.org)), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

 [Full text \(129.1 kB\)](#)