

CORRECTION

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Correction to: Mandibulate convergence in an armoured Cambrian stem chelicerate

Cédric Aria^{1*} and Jean-Bernard Caron²

Correction

The original article [1] had 4 paragraphs which contained erroneous information. In this correction article the correct and incorrect information is shown.

– Page 2

○ **Incorrect:** In this study, we thoroughly reinvestigated the Burgess Shale euarthropod *Habelia* Walcott, 1912 based on Walcott's original material and new specimens discovered by the Royal Ontario Museum. *Habelia optata* was initially regarded by Walcott as an "aglaspidid merostome," which would hint at a chelicerate affinity [36], but this statement lacked much justification [37]. Simonetta [38] and Simonetta and Delle Cave [39] followed this view based mostly on overall aspect, while preferring to compare *H. brevicauda*, the new morphotype erected by Simonetta, to *Leancoilia* [39]—a megacheiran. Importantly, early authors [37–41] recognized the presence of at least five pairs of head appendages, a condition that could have later related this animal to *Sanctacaris*—even if an interpretation of strictly five pairs and some other morphological details led to comparisons with crustaceans instead [40, 42]. In his revision of the genus, however, Whittington [43] rejected previous interpretations of a cephalon with five head appendages or more, leaving *Habelia* as a problematicum. Hereafter, we reevaluate the significance of *Habelia* for the early evolution of chelicerates, as well as for the understanding of morphological convergence in the ecological context of the radiation of Cambrian euarthropods.

○ **Correct:** In this study, we thoroughly reinvestigated the Burgess Shale euarthropod *Habelia optata* Walcott, 1912 based on Walcott's original material and new specimens discovered by the Royal Ontario Museum. *H. optata* was initially regarded by Walcott as an "aglaspidid merostome," which would hint at a chelicerate affinity [36], but this statement lacked much justification [37]. Simonetta [38] and Simonetta and Delle Cave [39] followed this view based mostly on overall aspect, while preferring to compare *H. brevicauda*, the new species erected by Simonetta, to *Leancoilia* [39]—a megacheiran. Importantly, early authors [37–41] recognized the presence of at least five pairs of head appendages, a condition that could have later related this animal to *Sanctacaris*—even if an interpretation of strictly five pairs and some other morphological details led to comparisons with crustaceans instead [40, 42]. In his revision of the species, however, Whittington [43] rejected previous interpretations of a cephalon with five head appendages or more, leaving *H. optata* as a problematicum. Hereafter, we reevaluate the significance of *H. optata* [...]

– Page 3

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– Page 3

○ **Incorrect:** Abbreviations used in figures: ag, anterior gnathobase; am, arthrodial membrane; an, anus; ap, anal pouch; att, endopod attachment on gnathobase; bas, basipod(s); ce, cephalic endopod(s); cen, cephalic endopod n; cel, left cephalic exopods; cpl, cephalic pleura; cx, cephalic exopod(s); cxn, cephalic exopod n; db, distal brush; dpex, distal part of exopod; ds, dorsal spine; dtp; distal telson piece; e, eye; en, endopod n; en, endopod; ex, exopod; das, dark stain;

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– **Page 4**

○ **Incorrect:** “however, the presence of **eight post-cephalic** tergites and a pygidium would rather seem to indicate a relationship with *Mollisonia*”

○ **Correct:** “however, the presence of **seven post-cephalic tergites** and a pygidium would rather seem to indicate a relationship with *Mollisonia*”

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