

CORRECTION

Correction: Genetic diversity of *Entamoeba*: Novel ribosomal lineages from cockroaches

Tetsuro Kawano, Mihoko Imada, Pennapa Chamavit, Seiki Kobayashi, Tetsuo Hashimoto, Tomoyoshi Nozaki

The authors acknowledge that a closely related study was published in a 2015 Master's thesis [1], and this work should have been cited and discussed in the article [2].

It was previously reported that *Entamoeba*-like species were identified from cockroaches [1]; this previous work investigated the diversity of *Entamoeba*-like species found in cockroaches and similarly found them to group into nine distinct clades. However, no sequence information was available. Hence, the authors decided to initiate a new investigation to verify the claims in [1] and also to provide nucleotide sequence information.

In [1], it appears that all groups were composed of multiple cockroach species. In contrast, our tree shows several clades are *P. americana* specific (B, E, F, and G), while others contain the *Entamoeba* lineages from both cockroach species. Especially, the largest group C abundantly contains *Entamoeba* lineages from all cockroach species in our study, which is in good contrast to the previous study. The previous report [1] showed the monophyly of *Entamoeba*-like sequences identified from *P. americana*. Here, we included two additional cockroach species to broaden species coverage.

The following is added to the Acknowledgements section: Although it remained unpublished, the existence of *Entamoeba*-like species in cockroaches was reported at a few conferences (ISOP-PSA Meeting, Seattle, USA, in 2011; ISOP-ISEP Conference, Oslo, Norway, in 2012; and ICOP in Vancouver in 2013). The previous studies, although unpublished, surely inspired the authors to initiate our investigation.

In the "DNA extraction and amplification of SSU rDNA derived from *Entamoeba*" subsection of the Material and methods, an incorrect primer sequence is provided for the second round of PCR. The correct sequence for 01R is:

5'- AAGGAGAAGTCGTAACAAGG-3'

References

1. Fakhri MH. Phylogeny and Diversity of *Entamoeba* in Cockroaches, with an Emphasis on *Periplaneta Americana*. M.Sc. Thesis, University of Arkansas. 2015. Available from <https://scholarworks.uark.edu/etd/24/>
2. Kawano T, Imada M, Chamavit P, Kobayashi S, Hashimoto T, Nozaki T (2017) Genetic diversity of *Entamoeba*: Novel ribosomal lineages from cockroaches. PLoS ONE 12(9): e0185233. <https://doi.org/10.1371/journal.pone.0185233> PMID: 28934335



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