

Review of: "Ancient DNA Clarifies the Identity and Geographic Origin of the Holotype of the Genus *Ctenomys*"

Claudio Oliveira¹

¹ Universidade Estadual Paulista, Brazil

Potential competing interests: No potential competing interests to declare.

I found the manuscript very well described and executed. In the abstract, the question regarding the similarity among *C. brasiliensis* and *C. lami* could be addressed since it apparently is also a junior synonym of *C. brasiliensis*. The introduction is clear since the topics of investigation were addressed as the importance of ancient DNA methodology for clarification of taxonomic questions and the issues related to *Ctenomys* taxonomy. The only problem is that Figure 2 was cited before Figure 1, which is not usual, and only Figure 1B is cited in the introduction, but all figures are important at this point. Material and methods are well described, but the mitochondrial genome of *Ctenomys brasiliensis* is described as possessing 15,867 base pairs in length, but this number is without the control region. How is the complete length? The results are well presented, but Figure SD3-2 is very important for the discussion of the manuscript and should be presented in results as well as the discussion about the data it shows. The discussion and conclusions are accordingly based on the obtained data, and all important points were addressed. I agree with the authors that additional studies need to be done with more samples of *C. lami* since this species also seems to be a synonym of *C. brasiliensis*.