

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

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Potential competing interests: No potential competing interests to declare.

The paper developed by Maestri and collaborators is indeed highly interesting and significant. It is particularly important due to the use of modern sequencing technologies and molecular techniques to address taxonomic and evolutionary questions. Furthermore, the historical review of the geography of southern Brazil, which was essential to clarify the existence and distribution of the species *C. brasiliensis*, is especially noteworthy. Therefore, I have a few minor suggestions for the work:

- 1) Perform a thorough review of the text formatting, as there are instances of words without proper spacing;
- 2) Include references in the sentence: "In this study, we initially sequenced the entire mitogenome of the holotype using the remaining degraded tissue available

on the skull at the MNHN, employing a methodology tailored for ancient DNA.";

- 3) In the methods section, include a subsection on the creation of the maps for Figures 2 and 6. Additionally, Figure 2 should be included in the results section of the paper, rather than in the methods.
- 4) Improve the graphical representation of Figures 3 and 4, for example, by highlighting the torquatus group from the other species.

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