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Integrating Biodiversity Content: ICZN -> ZooBank -> Institutional Repository -> Internet Archive

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Background

With rapidly advancing global warming and the concomitant disruptive effects on life on Earth, documenting species is urgent (Ceballos et al., 2020). Taxonomists are keenly aware that they must do all that they can to document species before their demise.

As of 2012, the International Commission on Zoological Nomenclature (ICZN, 1999; 2012) began to allow electronic publication of nomenclatural acts (resulting in the official naming of animal species).

Problem

Even though 10 years have passed since changes to the codification regarding the registration of animal species names, repository managers and animal taxonomists may not be collaborating to their fullest potential to leverage the capabilities in the digital environment.

Approach

The institutional repository managers at the University of Nebraska–Lincoln (the poster authors) have collaborated with the editor of the born-digital journal *Manter: Journal of Parasite Biodiversity* to ensure that nomenclatural acts presented in the journal are legal according to the 2012 ICZN rules for electronic publication.

For an all-electronic process, (1) the correct application of this rule relies on the completion of a series of steps involving (2) registration of a proposed taxonomic species name in ZooBank, (3) publication in a peer-reviewed electronic journal (which is often housed in a university's institutional repository; the journal must have an ISSN), and (4) permanent archival deposition of the article in an electronic library (such as the Internet Archive).

We have outlined visually the steps involved in depositing valid species names fully electronically.

Conclusion

Repository managers should be aware of the ICZN and its rules for codification of nomenclatural acts so they can be responsive to the needs of biodiversity researchers.

VALID NAMING OF SPECIES:

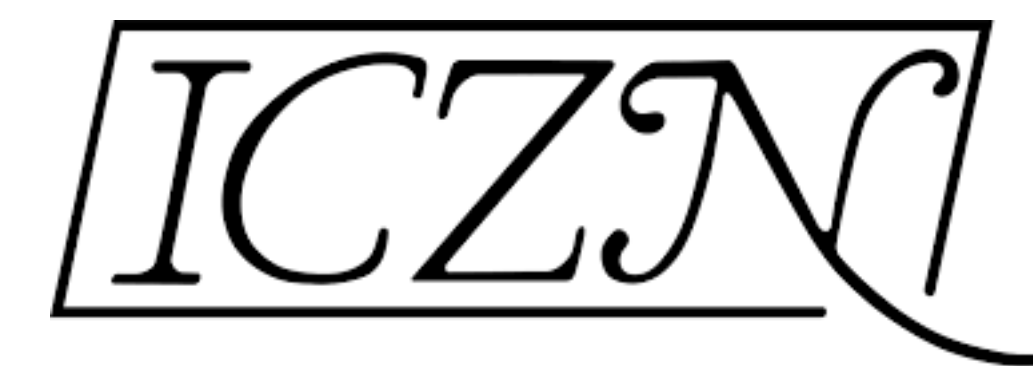
ALL-ELECTRONIC PROCESS

Follow the rules in the *International Code of Zoological Nomenclature*

Register the name in ZooBank



Brazilian tuco-tuco
(*Ctenomys brasiliensis*)



ZooBank

MANTER: Journal
of Parasite Biodiversity

UNIVERSITY OF
Nebraska
Lincoln
digitalcommons.unl.edu



Deposit a copy of the article
in the Internet Archive

Publish the name in a peer-reviewed journal that has an ISSN; place the article in an institutional repository

References

Ceballos, G., P. R. Ehrlich, and P. H. Raven. 2020. Vertebrates on the brink as indicators of biological annihilation and the sixth mass extinction. *Proceedings of the National Academy of Sciences of the USA* 117: 13,596–13,602.

International Commission on Zoological Nomenclature (ICZN). 1999. *International Code of Zoological Nomenclature*, 4th ed. International Trust for Zoological Nomenclature, London, United Kingdom.

International Commission on Zoological Nomenclature (ICZN). 2012. Amendment of Articles 8, 9, 10, 21, and 78 of the *International Code of Zoological Nomenclature* to expand and refine methods of publication. *ZooKeys* 219: 1–10.

Brazilian tuco-tuco image public domain, from Alcide Dessalines d'Orbigny. 1847. *Voyage dans l'Amérique méridionale*.