To Journal of Zoological Research.

Dear Editor,

We present the article “Selection of high-quality sperms by nanotechnological method of magnetic activation in Brazilian cervids”, developed at Faculty of Veterinary Medicine and Animal Science, Federal University of Uberlandia, Uberlandia, MG, in partnership with Deer Research and Conservation Center, São Paulo State University, Jaboticabal, SP, Brazil. We request that it be evaluated by this renowned journal for publication.

Here is some information:

i. Names and affiliation of author(s)

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iii. A brief description of the novelty and importance of the findings detailed in the paper

The nanotechnological method, using nanoparticles, is efficient in the production of high-quality semen samples in deer. The non-apoptotic semen fraction obtained after separation by magnetic-activated sperm sorting presented: High number of live cells; and Low major, minor and total spermatozoa defects. These results may contribute to an increase in the efficiency of assisted reproductive processes and the preservation of species.

iv. Declaration

We declare that this is an original work that was carried out by the team following all ethical conduct of scientific research. This article is not being evaluated by any other scientific journal.

v. Conflict of Interest

The authors declare that they have no known competing financial interests or personal relationships that could have appeared to influence the work reported in this paper.

vi. Informed Consent

This research was designed and carried out with consent of all participants prior to the study.

vii. Ethical Approval

The Deer Research and Conservation Centre (NUPECCE) is registration in IBAMA nº 1/35/92/0882-5 and SISBIO nº 482.508. The authorization covers the management of the breeding site for scientific purposes and any research related to deer, including semen collection.

viii. Trial Registration

ix. Contributor ship

Teresinha Inês de Assumpção: Conceptualization, Methodology, Investigation, Resources, Data Curation, Writing, Supervision, Project administration.

André Luís Quagliatto Santos: Methodology, Investigation, Resources, Writing

José Maurício Barbanti Duarte: Methodology, Writing, Investigation, Resources

Caroline Silva Vieira: Methodology, Investigation, Data Curation.