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Correction: Individual behavior tracking of heifers by using object detection algorithm YOLOv4

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KEYWORDS

animal behavior, computer vision, YOLO(v4), heifer, individual detection, Holstein Friesian

A Correction on

Individual behavior tracking of heifers by using object detection algorithm YOLOv4

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Author "Robert Kammerer" was omitted as an author in the published article. Author "Anne K. Schütz¹" was incorrectly listed as last author. The correct author list reads:

"Sarah Jahn¹*, Gabriel Schmidt², Lisa Bachmann², Robert Kammerer³, Helen Louton⁴, Anne K. Schütz¹† and Timo Homeier-Bachmann¹*†,"

The citation and copyright have also been updated.

The **Author Contributions** statement has been corrected to read:

"SJ: Data curation, Formal analysis, Methodology, Software, Validation, Visualization, Writing – original draft, Writing – review & editing. GS: Formal analysis, Validation, Writing – review & editing. LB: Project administration, Writing – review & editing. RK: Project administration, Resources, Writing – review & editing. HL: Supervision, Writing – review & editing. AS: Data curation, Formal analysis, Investigation, Methodology, Software, Supervision, Validation, Writing – review & editing. TH-B: Conceptualization, Methodology, Project administration, Resources, Supervision, Writing – review & editing"

Affiliation "Institute of Immunology, Friedrich-Loeffler-Institut, Federal Research Institute for Animal Health, Greifswald-Insel Riems, Germany" was omitted from the paper. This affiliation has now been added for author Robert Kammerer.

The location of the animal experiment was omitted, and the authors erroneously asserted that heifers were clinically unremarkable during the entire duration of the experiment.

A correction has been made to the section **2 Materials and methods**, *2.1 Experimental setup*, Paragraph 1:

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"The video material used in this study was recorded during an animal experiment (authorized by the local authority in Mecklenburg-Western Pomerania (Landesamt für Landwirtschaft, Lebensmittelsicherheit und Fischerei (LALLF) Mecklenburg-Vorpommern), # FLI-7221.3-1-047/17) at the Friedrich-Loeffler-Institut on the isle of Riems – Greifswald (Germany). Heifers were infected with mycoplasma (*Mycoplasma mycoides*) (Hänske et al., 2023). Therefore, for biosafety reasons, the experiment was carried out in the biosafety level 2 animal facility at the FLI. A total of 20 heifers (*Bos Taurus*) of the Holstein Friesian breed were divided into four groups of five animals. No obvious clinical symptoms were recognizable in the video material used. Only three pens were equipped with cameras, therefore only three groups could be monitored by cameras 24 hours per day."

There was a mistake in Figure 2 as published. New images with a clearer description over the functionality of the model were chosen. The corrected Figure 2 appears below.

Funding from the German Ministry of Economic Cooperation and Development (Contract no. 81170269; Project No.13.1432.7-001.00) and the German Research Foundation (Project number 521734223) to RK was erroneously omitted.

In the **Acknowledgements**, the following sentence was omitted: "We thank Jana Hänske, Martin Heller and Joerg Jores for their contribution to the animal experiment."

The original version of this article has been updated.

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FIGURE 2
Heifers were detected and located by coat pattern using the individual detector. (A) All heifers were detected while feeding, although the metal rod above the feeding fence covered parts of the heifers' bodies. (B) All heifers were detected with a precision of 100%.