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APPROVED BY
Frontiers Editorial Office,
Frontiers Media SA, Switzerland

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RECEIVED 03 April 2025
ACCEPTED 03 April 2025
PUBLISHED 10 April 2025

CITATION

Frontiers Editorial Office (2025) Retraction:
In-depth systems biological evaluation of
bovine alveolar macrophages suggests novel
insights into molecular mechanisms
underlying *Mycobacterium bovis* infection.
Front. Microbiol. 16:1605607.
doi: 10.3389/fmicb.2025.1605607

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Retraction: In-depth systems biological evaluation of bovine alveolar macrophages suggests novel insights into molecular mechanisms underlying *Mycobacterium bovis* infection

Frontiers Editorial Office*

A Retraction of the Original Research Article

[In-depth systems biological evaluation of bovine alveolar macrophages
suggests novel insights into molecular mechanisms underlying
Mycobacterium bovis infection](#)

by Hasankhani, A., Bahrami, A., Mackie, S., Maghsoodi, S., Alawamleh, H. S. K., Sheybani, N.,
Safarpour Dehkordi, F., Rajabi, F., Javanmard, G., Khadem, H., Barkema, H. W., and De Donato,
M. (2022). *Front. Microbiol.* 13:1041314. doi: 10.3389/fmicb.2022.1041314

The Journal retracts the 2022 article cited above.

Following publication, concerns were raised regarding the contributions and affiliations of the authors, as well as the validity of the qRT-PCR data presented in the article. The authors failed to provide a satisfactory explanation during the investigation, which was conducted in accordance with Frontiers' policies. Given the concerns, the editors no longer have confidence in the findings presented in the article.

This retraction was approved by the Chief Executive Editor of Frontiers. The authors received a communication regarding the retraction and had a chance to respond. This communication is recorded by the publisher.