



## Retraction Note: Multifunctional nanoagents for ultrasensitive imaging and photoactive killing of Gram-negative and Gram-positive bacteria

Retraction to: *Nature Communications*  
<https://doi.org/10.1038/s41467-019-12088-7>,  
 published online 06 September 2019

<https://doi.org/10.1038/s41467-026-68401-8>

Published online: 04 March 2026



Jiali Tang<sup>✉</sup>, Binbin Chu, Jinhua Wang, Bin Song, Yuanyuan Su<sup>✉</sup>, Houyu Wang & Yao He

The Editors have retracted this article. After publication, concerns were raised regarding the data presented in Fig. 7, specifically:

- In Fig. 7b HeLa, Ce6 group 3 and SiNPs group 3 images appear to overlap;
- In Fig. 7b HeLa, GP-Ce6-SiNPs control, group 1 and group 2 images appear to overlap;
- In Fig. 7c, Heart GP-Ce6-SiNPs (-) and PBS (-) images appear to overlap;
- In Fig. 7c, Lung PBS -, PBS + and GP-Ce6-SiNPs + images appear to overlap.

The authors have issued a Correction<sup>1</sup> to address some of these concerns. However, further checks by the Publisher identified additional concerns:

- In Fig. 7b ARPE, Ce6 group 2 and 5 images appear to overlap;
- In Fig. 7c, Kidney PBS + and GP-Ce6-SiNPs + images appear to overlap.

The Editors therefore no longer have confidence in the presented data.

Jiali Tang and Houyu Wang agree with this retraction. The other authors have not responded to any correspondence from the editor or publisher about this retraction.

### References

1. Tang, J. et al. Author Correction: Multifunctional nanoagents for ultrasensitive imaging and photoactive killing of Gram-negative and Gram-positive bacteria. *Nat. Commun.* **16**, 6582 (2025).

**Open Access** This article is licensed under a Creative Commons Attribution 4.0 International License, which permits use, sharing, adaptation, distribution and reproduction in any medium or format, as long as you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons licence, and indicate if changes were made. The images or other third party material in this article are included in the article's Creative Commons licence, unless indicated otherwise in a credit line to the material. If material is not included in the article's Creative Commons licence and your intended use is not permitted by statutory regulation or exceeds the permitted use, you will need to obtain permission directly from the copyright holder. To view a copy of this licence, visit <http://creativecommons.org/licenses/by/4.0/>.

© Springer Nature Limited 2026