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## Retraction Note: Anticancer activity of lactoferrin-coated biosynthesized selenium nanoparticles for combating different human cancer cells via mediating apoptotic effects

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Retraction of: *Scientific Reports* <https://doi.org/10.1038/s41598-023-36492-8>, published online 13 June 2023

The Editors have retracted this Article. After publication, concerns were raised regarding the data presented in Figs. 5 and 6, specifically:

- Fig. 5 ALF-Se NPs Hep-G2 and Caco-2 images appear to overlap;
- The untreated control images in Fig. 5 appear highly similar to those in the authors' earlier publications (MCF-7, HepG-2 and Caco-2 in Fig. 3b of<sup>1</sup>, and HepG-2 and Caco-2 in Fig. 2b of<sup>2</sup>);
- Fig. 6a ALF-SeNPs plots appear highly similar to Fig. 3 LP-CNPs+LF-FNPs plots in Fig. 3a of<sup>2</sup>.

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

All Authors disagree with this retraction.

### References

1. Eltarahony, M. et al. Unveiling the role of novel biogenic functionalized CuFe hybrid nanocomposites in boosting anticancer, antimicrobial and biosorption activities. *Sci. Rep.* **11**, 7790. <https://doi.org/10.1038/s41598-021-87363-z> (2021).
2. El-Fakharany, E. M. et al. Augmenting apoptosis-mediated anticancer activity of lactoperoxidase and lactoferrin by nanocombination with copper and iron hybrid nanometals. *Sci. Rep.* **12**, 13153. <https://doi.org/10.1038/s41598-022-17357-y> (2022).

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