



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

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Esmail M. El-Fakharany, Marwa M. Abu-Serie, Amany Ibrahim & Marwa Eltarahony

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 of¹, and HepG-2 and Caco-2 in Fig. 2b of²);
- Fig. 6a ALF-SeNPs plots appear highly similar to Fig. 3 LP-CNPs+LF-FNPs plots in Fig. 3a of².

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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