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Retraction Note: Novel green synthesis and antioxidant, cytotoxicity, antimicrobial, antidiabetic, anticholinergics, and wound healing properties of cobalt nanoparticles containing *Ziziphora clinopodioides* Lam leaves extract

Huifang Hou, Behnam Mahdavi, Sogand Paydarfard, Mohammad Mahdi Zangeneh, Akram Zangeneh, Nastaran Sadeghian, Parham Taslimi, Vildan Erduran & Fatih Sen

Retraction of: *Scientific Reports* <https://doi.org/10.1038/s41598-020-68951-x>, published online 22 July 2020

The Editors have retracted this article.

After publication it was brought to the Editors' attention that some of the figures in this article contain images duplicated from other sources. Specifically:

- Figure 2 appears to be duplicated (with modification to contrast and 90 degrees rotation) from Figure 1 in Rouhollahi et al.¹, which reports a different set of experiments.
- Panels in Figure 9 appear to be duplicated from panels in Figure 1 in Ghashghaii et al.², which reports a different set of experiments.
- Figure 10 contains internal duplications between panels A and B, and between panels E and F, which all represent different experimental conditions.

In addition, Figure 1 appears to have been reused (with alterations to the aspect ratio) from an online source³.

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

Behnam Mahdavi, Sogand Paydarfard, Mohammad Mahdi Zangeneh, Akram Zangeneh, Nastaran Sadeghian, Parham Taslimi and Fatih Sen do not agree with this retraction. Huifang Hou and Vildan Erduran have not responded to any correspondence from the Editors about this retraction.

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References

1. Rouhollahi, E. *et al.* *Curcuma purpurascens* BI. rhizome accelerates rat excisional wound healing: involvement of Hsp70/Bax proteins, antioxidant defense, and angiogenesis activity. *Drug Des. Devel. Ther.* **9**, 5805–5813 (2015).
2. Ghashghaii, A., Hashemnia, M., Nikousefat, Z., Zangeneh, M. & Zangeneh, A. Wound healing potential of methanolic extract of *Scrophularia striata* in rats. *Pharm. Sci.* **23**, 256–263 (2017).
3. Shirrush, Blue Mint Bush (*Ziziphora clinopodioides*) <https://davesgarden.com/guides/pf/showimage/386610> (2015).



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