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## Retraction: Single walled carbon nanotubes reinforced mineralized hydroxyapatite composite coatings on titanium for improved biocompatible implant applications

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 Retraction of 'Single walled carbon nanotubes reinforced mineralized hydroxyapatite composite coatings on titanium for improved biocompatible implant applications' by D. Gopi *et al.*, *RSC Adv.*, 2015, 5, 36766–36778, <https://doi.org/10.1039/C5RA04382D>.

The Royal Society of Chemistry, with the agreement of the named authors, hereby wholly retracts this *RSC Advances* article due to concerns with the reliability of the data in the published article.

There are unexpected similarities in the XRD patterns presented in Fig. 2a–c in the 22–24° and 28–56° regions.

The left-hand side of the cross-sectional SEM image in Fig. 3d has been duplicated in other publications,<sup>1–3</sup> whereas the right-hand section of the image in Fig. 3d has been duplicated in another article.<sup>4</sup>

The authors informed the Editor that the characterization of the original samples was outsourced, and they do not have the original raw data for the published results.

Given the significance of the concerns about the validity of the data, and the lack of raw data, the findings presented in this paper are not reliable.

S. Nithiya and Tingting Tang were contacted but did not respond.

Signed: D. Gopi, E. Shinyjoy, A. Karthika, L. Kavitha and D. Rajeswari

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Retraction endorsed by Laura Fisher, Executive Editor, *RSC Advances*

## References

- 1 M. Chozhanathmisra, S. Ramya, L. Kavitha and D. Gopi, *Colloids Surf., A*, 2016, **511**, 357–365.
- 2 D. Gopi, E.-S. M. Sherif, D. Rajeswari, L. Kavitha, R. Pramod, J. Dwivedi and S. R. Polaki, *J. Alloys Compd.*, 2014, **616**, 498–504.
- 3 D. Gopi, K. Arumugam, S. Nithiya and L. Kavitha, *Mater. Chem. Phys.*, 2014, **144**, 75–85.
- 4 D. Gopi, A. Karthika, D. Rajeswari, L. Kavitha, R. Pramod and J. Dwivedi, *RSC Adv.*, 2014, **4**, 34751–34759.

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