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Retraction: Synthesis, characterization and *in vitro* anticancer analysis of PEG-capped Mn-doped TiO₂ nanoparticles against hepatocellular carcinoma cells

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Retraction of 'Synthesis, characterization and *in vitro* anticancer analysis of PEG-capped Mn-doped TiO₂ nanoparticles against hepatocellular carcinoma cells' by G. Vijayakumar *et al.*, *New J. Chem.*, 2023, **47**, 3112–3124, <https://doi.org/10.1039/D2NJ05795F>.

The Royal Society of Chemistry, with the agreement of the authors, hereby wholly retracts this *New Journal of Chemistry* article due to concerns with the reliability of the data.

The SAED pattern and interplanar distance in Fig. 8e and f are duplicated images from a paper published by a different author group.¹ There are image duplications within the paper, with partial duplications within phase contrast micrographs in Fig. 10, the 80 µg mL and 100 µg mL panels, and fluorescence microscopy image panels in Fig. 12b and c.

The authors have not been able to satisfactorily explain these duplications and have not provided the raw data.

The authors would like to state that Dr Elangovan Thangavel only provided technical suggestions and Dr Sangaraju Sambasivam only assisted with technical corrections, and were not involved in the execution of the research nor were they aware of the specifics of the data collection period or the nature of the data presented.

Given the significance of these concerns, the Editor has lost confidence that the findings presented in this paper are reliable.

The authors were informed about the retraction of the article. Sambasivam Sangaraju and G. Vijayakumar have agreed with the decision, the other authors have not responded.

Signed: Sambasivam Sangaraju, G. Vijayakumar

Date: 4th February 2025

Retraction endorsed by Sally Howells-Wyllie, Executive Editor, *New Journal of Chemistry*

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