

## RETRACTION

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## Retraction: Biocompatible dextran-coated gadolinium-doped cerium oxide nanoparticles as MRI contrast agents with high $T_1$ relaxivity and selective cytotoxicity to cancer cells

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Retraction of 'Biocompatible dextran-coated gadolinium-doped cerium oxide nanoparticles as MRI contrast agents with high  $T_1$  relaxivity and selective cytotoxicity to cancer cells' by A. L. Popov et al., *J. Mater. Chem. B*, 2021, **9**, 6586–6599, <https://doi.org/10.1039/D1TB01147B>.

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

In the TEM data in Fig. 1b there is an unexpected repeating pattern.

In Fig. 5a the 5 panels for hMSC control to 5 mg mL<sup>-1</sup> are identical to the panels for 24 h control, 0.6 mg mL<sup>-1</sup> to 5 mg mL<sup>-1</sup> of sample 1 in Fig. 5 of ref. 1.

In Fig. 6a the 4 panels for hMSC control to 2.5 mg mL<sup>-1</sup> are identical to the panels for 24 h control, 0.6 mg mL<sup>-1</sup> to 2.5 mg mL<sup>-1</sup> of sample 1 in Fig. 6 of ref. 1.

In Fig. 6a the panel for MCF-7 control has partial overlap with the panel for MCF-7 5 mg mL<sup>-1</sup>.

Given the significance of these concerns, the findings presented in this paper are no longer reliable.

Signed: A. L. Popov, M. A. Abakumov, I. V. Savintseva, A. M. Ermakov, N. R. Popova, O. S. Ivanova, D. D. Kolmanovich, A. E. Baranchikov and V. K. Ivanov

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Retraction endorsed by **Michaela Mühlberg**, Executive Editor, *Journal of Materials Chemistry B*

## References

- 1 A. L. Popov, et al., *Molecules*, 2023, **28**(3), 1165, DOI: 10.3390/molecules28031165.

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