

## CORRECTION

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## Correction: Revisiting gene delivery to the brain: silencing and editing

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Correction for 'Revisiting gene delivery to the brain: silencing and editing' by João Connio et al., *Biomater. Sci.*, 2021, DOI: 10.1039/D0BM01278C.

The authors regret the incorrect version of Fig. 2 was included in the original manuscript. The correct version of Fig. 2 is as shown below, where ref. 188, 189, 190, 138 and 177 from the original article, are shown as ref. 1–5, respectively.



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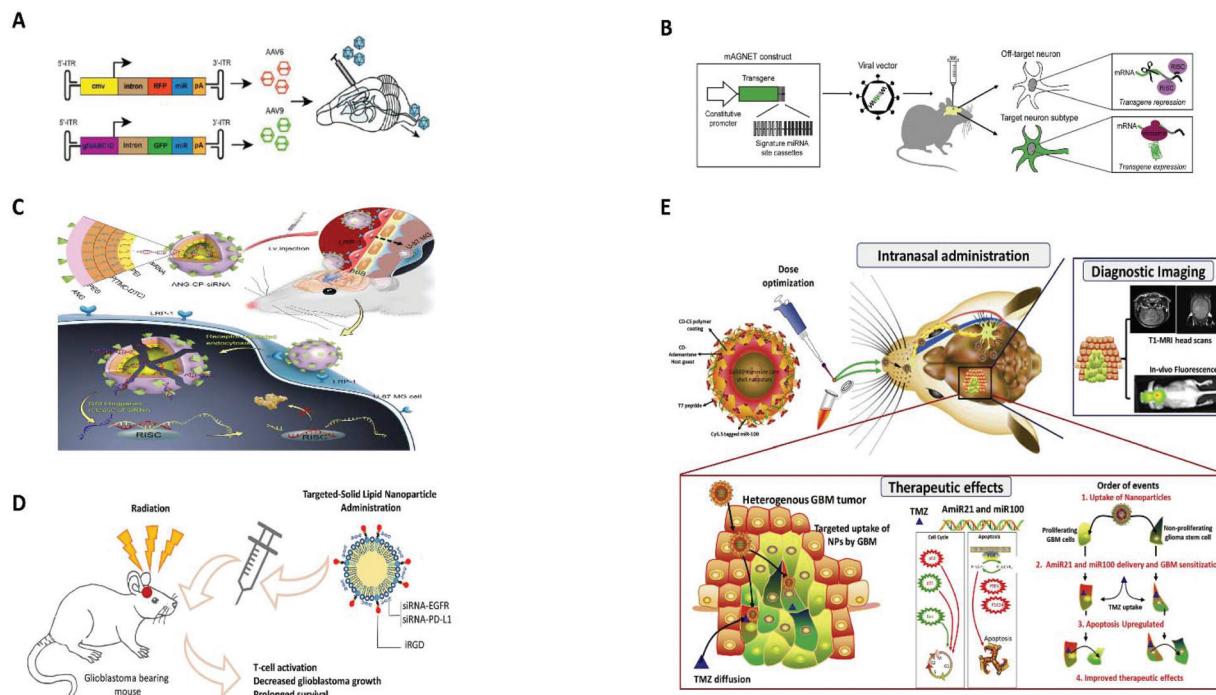
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**Fig. 2** Viral and non-viral delivery for gene silencing in brain, (A) AAV-mediated SOD1 silencing by overexpression of miRNA against human SOD1 coding sequence, to prevent motoneuron degeneration caused by SOD1 mutation. Reproduced with permission.<sup>1</sup> Copyright 2015, Wiley. (B) Lentivirus-mediated miRNA-guided neuron tag ("mAGNET") to restrict transgene expression to cortical inhibitory (GABA<sup>+</sup>) neurons in the mouse neocortex (GABA mAGNET). Reproduced with permission.<sup>2</sup> Copyright 2018, Elsevier. (C) RNAi therapy for human glioblastoma *in vivo* using siRNA-loaded nontoxic brain-targeting chimaeric polymersomes (ANG-CP-siRNA). Reproduced with permission.<sup>3</sup> Copyright 2018, Elsevier. (D) A cyclic peptide iRGD (CCRGDKGPDC)-conjugated solid lipid nanoparticle (SLN) to deliver small interfering RNAs (siRNAs) against both epidermal growth factor receptor (EGFR) and PD-L1 for combined targeted and immunotherapy against glioblastoma. Reproduced with permission.<sup>4</sup> Copyright 2019, American Chemical Society. (E) Targeted delivery of theranostic polyfunctional gold–iron oxide nanoparticle (polyGION) surface loaded with therapeutic miRNAs (miR-100 and antimir-21) to glioblastoma in mice. Reproduced with permission.<sup>5</sup> Copyright 2019, Elsevier.

The Royal Society of Chemistry apologises for these errors and any consequent inconvenience to authors and readers.

## References

- 1 E. Dirren, J. Aebischer, C. Rochat, C. Towne, B. L. Schneider and P. Aebischer, *Ann. Clin. Transl. Neurol.*, 2015, **2**, 167–184.
- 2 M. K. Keaveny, H.-a. Tseng, T. L. Ta, H. J. Gritton, H.-Y. Man and X. Han, *Cell Rep.*, 2018, **24**, 294–303.
- 3 Y. Shi, Y. Jiang, J. Cao, W. Yang, J. Zhang, F. Meng and Z. Zhong, *J. Controlled Release*, 2018, **292**, 163–171.
- 4 G. Erel-Akbaba, L. A. Carvalho, T. Tian, M. Zinter, H. Akbaba, P. J. Obeid, E. A. Chiocca, R. Weissleder, A. G. Kantarci and B. A. Tannous, *ACS Nano*, 2019, **13**, 4028–4040.
- 5 U. K. Sukumar, R. J. C. Bose, M. Malhotra, H. A. Babikir, R. Afjei, E. Robinson, Y. Zeng, E. Chang, F. Habte, R. Sinclair, S. S. Gambhir, T. F. Massoud and R. Paulmurugan, *Biomaterials*, 2019, **218**, 119342.