CORRECTION



Correction: ANGPTL2 binds MAG to efficiently enhance oligodendrocyte differentiation

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In this original article [1], the wrong figure appeared as Fig. 6 and Fig. 6K is missing. The correct Fig. 6 should have appeared as shown.

The original article has been corrected.

⁺Lu Chen, Zhuo Yu and Li Xie have contributed equally to this work

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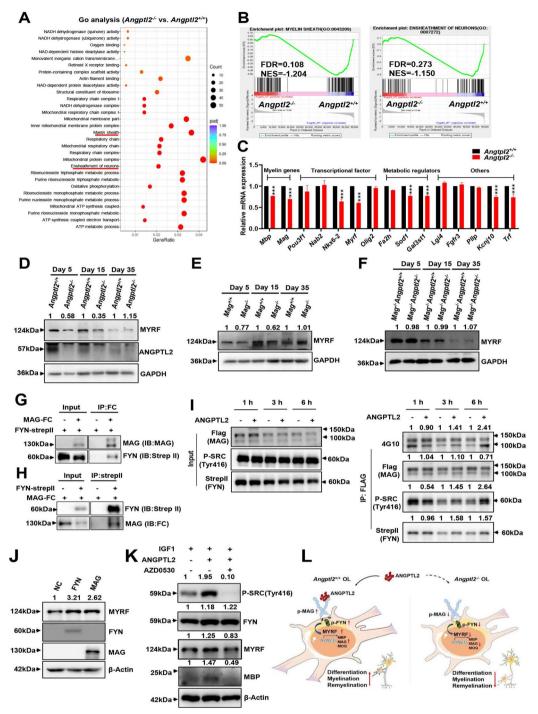


Fig. 6 (See legend on next page.)

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Fig. 6 ANGPTI 2-MAG induces Evn-mediated signaling to enhance the differentiation of oligodendrocytes. A Gene Ontology (GO) analysis of the downregulated differentially expressed genes (DEGs) in the brains of Angpt/2^{+/+} and Angpt/2^{-/-} mice at day 15 as determined by RNA sequencing (n = 3). **B** Enrichment score plots from GSEA related to the GO signature for myelin sheath and ensheathment of neurons (n = 3). FDR, false discovery rate; NES, normalized enrichment score. C Relative mRNA levels of potential candidates related to myelination markers, transcription factors, metabolic regulators and other genes in the brain tissues of Angpt/2^{+/+} and Angpt/2^{-/-} mice at day 15 as measured by quantitative RT-PCR (n = 3). D Immunoblot analysis of MYRF and ANGPTL2 protein levels in the brain tissues of Angpt/2^{+/+} and Angpt/2^{-/-} mice at day 5, day 15 and day 35. Ratio of MYRF/B-actin was quantified and normalized against Anaptl2^{+/+}, respectively. One representative experiment is shown. E-F Immunoblot analysis of MYRF protein levels in the brain tissues of $Mag^{+/+}$ and $Mag^{-/-}$ mice (E) or $Mag^{-/-}Angptl2^{+/+}$ and $Mag^{-/-}Angptl2^{+/+}Angptl2^{+/+}$ and $Mag^{-/-}Angptl2^{+/+}Angptl$ at day 5, day 15 and day 35. Ratio of MYRF/β-actin was quantified and normalized against Angptl2^{+/+}, respectively. One representative experiment is shown. G-H MAG directly interacted with FYN, as detected by forward (G) or reverse (H) co-immunoprecipitation assays. CMV-MAG (full-length)-FC and pLVX-FYN-strepl plasmids were used in this experiment. One representative experiment is shown. I RSC96 cells with ectopic expression of MAG (full-length)-FLAG and FYN-StreplI were treated with ANGPTL2 proteins, followed by co-immunoprecipitation analysis to evaluate the changes in tyrosine phosphorylation levels of MAG and FYN using 4G10 and p-SRC (Tyr416) antibodies, respectively. The levels of immunoprecipitated protein were quantified and normalized against the control group, respectively. One representative experiment is shown. J RSC96 cells overexpressing FYN-Strepll or MAG (full-length)-FC were subjected to immunoblot analysis to determine MYRF protein levels. Ratio of MYRF/β-actin was quantified and normalized against negative control (empty vector), respectively. One representative experiment is shown. K Western blot analysis of the protein levels of P-SRC (Tyr416), Fyn and MBP in HCN cells 72 h after induction with IGF1 (100 ng/ml), with/without ANGPTL2-Flag (2 µg/ml) and AZD0530 (2 μM) as indicated. Ratios of P-SRC (Tyr416)/β-actin, Fyn/β-actin, MYRF/β-actin and MBP/β-actin were quantified and normalized against the control treated with IGF1 alone, respectively. One representative experiment is shown. L Schematic diagram of the working model for the role of ANGPTL2-MAG in oligodendrocytes differentiation, myelination and differentiation (***p < 0.001)

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Reference

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