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CORRECTION

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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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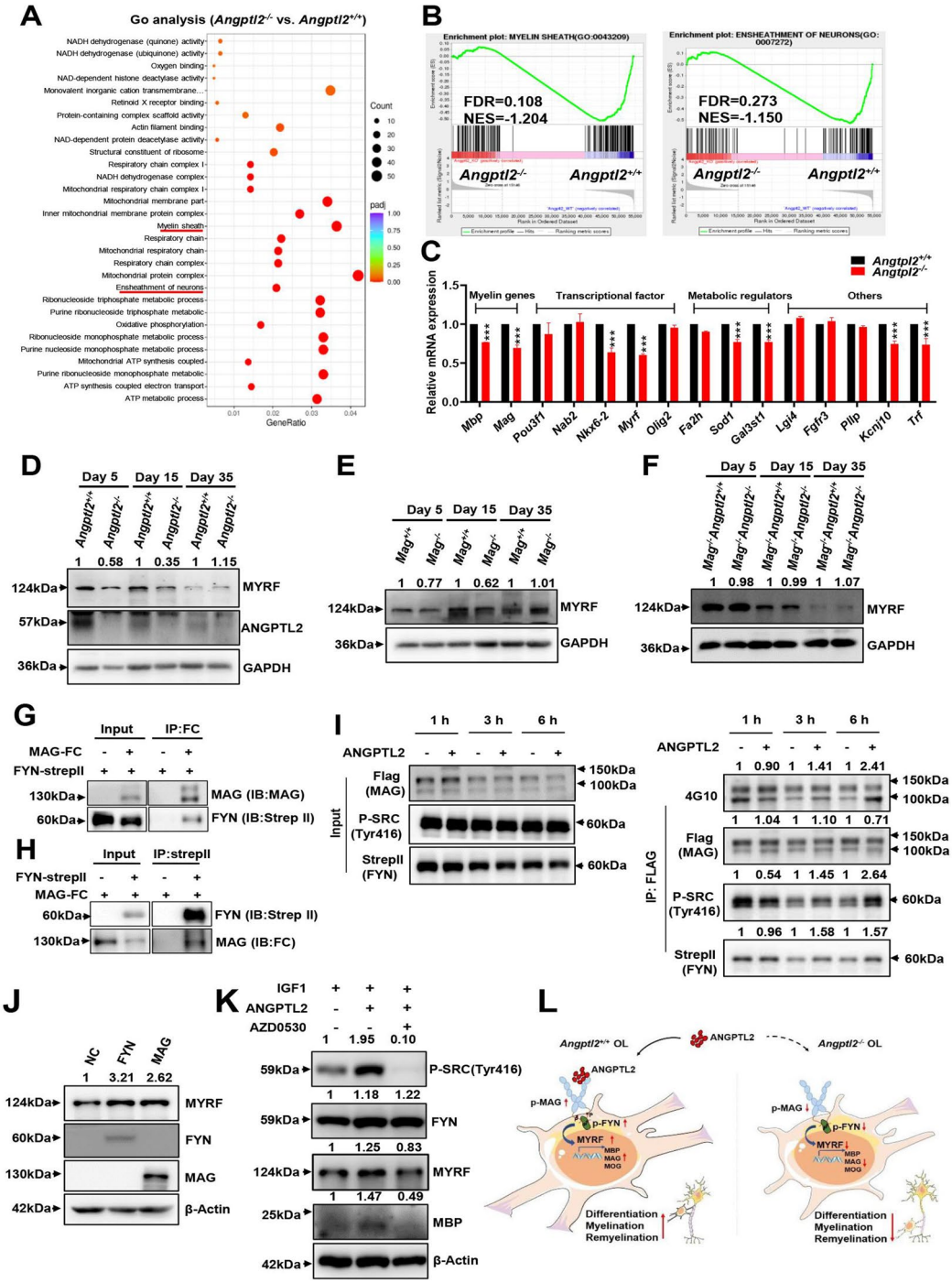

Fig. 6 (See legend on next page.)

(See figure on previous page.)

Fig. 6 ANGPTL2-MAG induces Fyn-mediated signaling to enhance the differentiation of oligodendrocytes. **A** Gene Ontology (GO) analysis of the downregulated differentially expressed genes (DEGs) in the brains of *Angptl2*$^{+/+}$ and *Angptl2*$^{-/-}$ 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 *Angptl2*$^{+/+}$ and *Angptl2*$^{-/-}$ 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 *Angptl2*$^{+/+}$ and *Angptl2*$^{-/-}$ mice 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. **E–F** Immunoblot analysis of MYRF protein levels in the brain tissues of *Mag*$^{+/+}$ and *Mag*$^{-/-}$ mice (**E**) or *Mag*$^{-/-}$*Angptl2*$^{+/+}$ and *Mag*$^{-/-}$*Angptl2*$^{-/-}$ mice (**F**) 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-strepII plasmids were used in this experiment. One representative experiment is shown. **I** RSC96 cells with ectopic expression of MAG (full-length)-FLAG and FYN-StrepII 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-StrepII 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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