CORRECTION

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In this article [1], the data and p value of the Western Blot histogram were found. Due to the software operation error, a calculation error occurred. After repeated quantitative review several times in the proofing review stage, we reconfirmed the gray value of the Western Blot band, so modified. The Western Blot histogram in the picture and the p value marked in the legend part of the Figure legends, the corrected Figs. 2, 3, 4, 5 and 6 and its legends are given in this correction.

The original article can be found online at https://doi.org/10.1186/s12935-022-02513-1.

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between results predicted by 3 databases (Targetscan, miRDB, mirDIP) and the differential genes; **C** the correlation between miR-223-3p and potential target genes analyzed by ENCORI (p=2.41e-19); **D** *SORBS1* expression in normal gastric mucosa cells and GC cells (atlogarithmic phase) (n=3; p=0.0002; p<0.0001; p=0.001); **E** the binding sites of miR-223-3p and *SORBS1* predicted by miRDB database; **F** Targeted relationship between miR-223-3p and *SORBS1* verified by dual-luciferase reporter gene detection (n=3; p=0.0092); **G** Interaction between miR-223-3p and *SORBS1* verified by RIP (n=3; p<0.0001; p<

(See figure on next page.)

Fig. 5 miR-223-3p regulates the proliferation, migration and invasion of GC cells by targeting *SORBS1*. **A** miR-223-3p and *SORBS1* expression in each transfection group after 48-h transfection (BGC-823 cells: n = 3; p = 0.0017; p < 0.001, p < 0.001; p < 0.001, AGS cells: p = 0.0025; p = 0.0017, p = 0.0003; p = 0.0004); **B** *SORBS1* expression in each transfection group after 48-h transfection (n = 3; p = 0.0003; p = 0.0002, n = 3; p < 0.0001; p < 0.0001; p < 0.0002, n = 3; p < 0.0001; p = 0.0004); **C** the cell activity of each transfection group (n = 3; p = 0.0014; p = 0.00051, n = 3; p = 0.0014; p = 0.00187); **D** the ability of cell colony formation in each transfection group (n = 3; p = 0.0015; p = 0.0015; p = 0.0098; p = 0.0004); **E**, **F** the cell migration and invasion in each transfection group (migration: n = 3; p = 0.00051; n = 3; p = 0.00013; p = 0.00073, n = 3; p = 0.0002; p < 0.0001). **G**, **H** Cell apoptosis and cellcycle (apoptosis: n = 3; p < 0.0001; p < 0.0001; p = 0.0001; p = 0.0001; p = 0.0025, p = 0.0225, p = 0.0085; p = 0.0217). *p < 0.05; **p < 0.01; ***p < 0.001; ***p < 0.0001; ***p < 0.001; ***p < 0.001; ***p < 0.001; ***p < 0





p = 0.0001; **D** expression level of Ki-67 in tumor tissue of transplanted mice detected by IHC; **E** the expression levels of EMT-related proteins and *SORBS1* in the tumor tissue of transplanted mice (n = 3; p = 0.0002, $p \le 0.0001$; p = 0.0001; p = 0.0002; p = 0.0002;

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