

**CORRIGENDUM**

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**Activation of sonic hedgehog signaling enhances cell migration and invasion by induction of matrix metalloproteinase-2 and -9 via the phosphoinositide-3 kinase/AKT signaling pathway in glioblastoma**

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After the publication of the article, it has been brought to the authors' attention by an interested reader that we had made an error regarding the presentation of certain data in the manuscript. The error relates to the presentation of Figs. 1 and 2 in the paper: The control panels for Fig. 1C [labelled 'cyclopamine ( $\mu\text{M}$ )'] and Figs. 2B and C [labelled 'rhSSH ( $\mu\text{g/ml}$ )'] were derived from the same image. The control U251 cells, featured in Fig. 1 and Figs. 2B and C, were treated without cyclopamine and rhSHH. Therefore, the U251 cells treated without cyclopamine and rhSHH were considered as a control group compared with U251 cells that were separately treated with cyclopamine or rhSHH, and these were photographed randomly. A new Fig. 2 is provided, which contains the correct data for the control panels for Figs. 2B and C.

The selection of the same image for the control panels in Figs. 1 and 2 do not affect the overall conclusions in the paper. We would like to thank the reader who pointed out this error, and to apologize for any inconvenience caused.

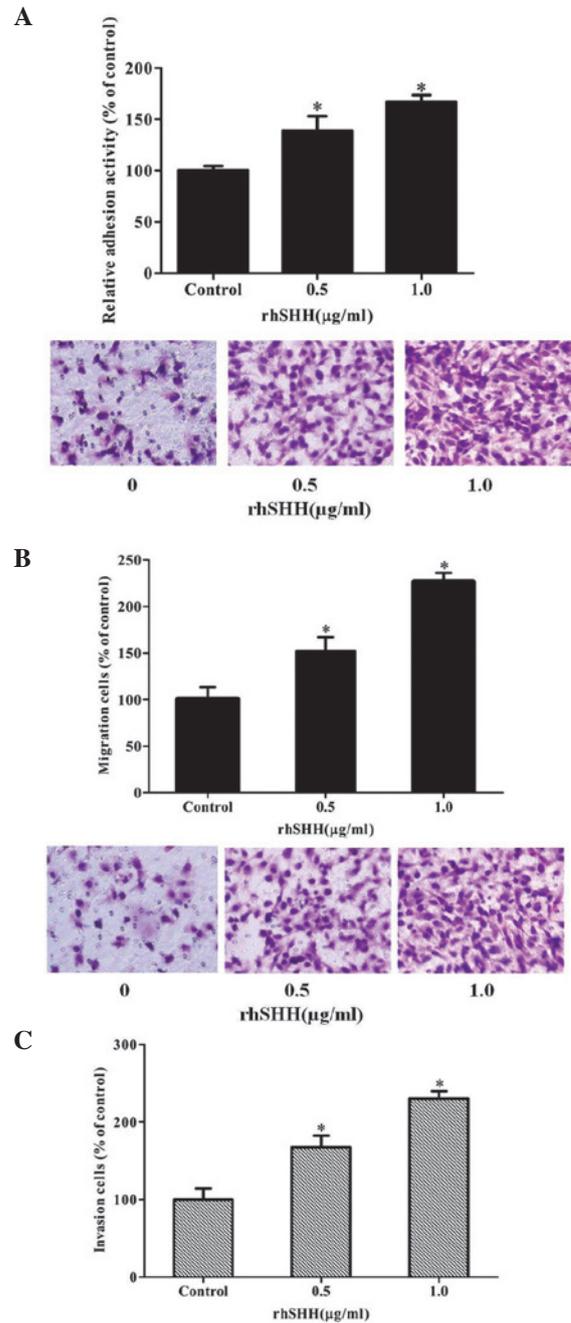


Figure 2. rhSHH enhances the adhesion, invasion and migration of U251 cells. (A) U251 cells were incubated for 24 h with various concentrations of rhSHH. Cells were seeded into 96-well plates coated with fibronectin. After 1 h, the adhered cells were analyzed by MTT assay. The adhesion rate was expressed as a percentage of the control (0  $\mu\text{g/ml}$ ). (B) U251 cells were seeded in the upper wells without matrigel coating and treated with various concentrations of rhSHH. After 12 h, cells on the bottom side of the filter were fixed, stained and counted (magnification, x400). The migration rate was expressed as a percentage of the control (0  $\mu\text{g/ml}$ ). (C) U251 cells were seeded in the upper wells with matrigel coating and treated with various concentrations of rhSHH. After 24 h, cells on the bottom side of the filter were fixed, stained and counted (magnification, x400). The invasion rate was expressed as a percentage of the control (0  $\mu\text{g/ml}$ ). Values are expressed as the mean  $\pm$  standard deviation of three independent experiments. \*P<0.001, compared with controls. rhSHH, recombinant human sonic hedgehog N-terminal peptide.