ERRATUM

Erratum to: JMJD2A-dependent silencing of Sp1 in advanced breast cancer promotes metastasis by downregulation of DIRAS3

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Published online: 23 February 2016
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Erratum to: Breast Cancer Res Treat (2014)
147:487–500
DOI 10.1007/s10549-014-3083-7

In the original publication of the article, the Fig. 5 was published erroneously with mislabeling of the downregulating protein and duplication of an image in Fig. 5e. The corrected Fig. 5 shown below is the correct representation of the data from this study. The authors apologize for this error.

The online version of the original article can be found under doi:[10.1007/s10549-014-3083-7](https://doi.org/10.1007/s10549-014-3083-7).

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Fig. 5 Re-expression of DIRAS3 reversed Sp1 knockdown-mediated breast cancer cell migration and invasion. **a** Protein levels of Sp1 and DIRAS3 in MDA-MB-231 cells were assessed by Western blot analysis after plasmid and/or siRNA transfection. Transfection of siSp1 led to decrease in Sp1 expression as well as DIRAS3 expression. Additionally, transfection of DIRAS3 plasmid into Sp1-silenced MDA-MB-231 cells efficiently elevated DIRAS3 expression. GAPDH was used as a loading control. **b** MDA-MB-231 cells with distinct treatments were subjected to wound-healing assay. Representative photographs at 24 h were taken (*left panel*). Magnification: $\times 100$. Percentage wound recovery was also shown (*right panel*). $*P < 0.05$. **c** MDA-MB-231 cells with distinct treatments were

subjected to transwell migration and invasion assays. 12 h post culture, cells were stained with crystal violet. Representative photographs from each group were taken for subsequent cell number counting. Magnification: $\times 200$. **d** Migratory and invasive MDA-MB-231 cells were counted and shown. Cell numbers represented average values from three microscopic visions of each group. $*P < 0.05$. **e, f** In MCF-7 cells, re-expression of DIRAS3 was also observed to reverse Sp1 knockdown-mediated breast cancer cell migration and invasion, as revealed by the crystal violet staining (**e**) and transmigrated cell number counting (**f**). Magnification: $\times 200$. $*P < 0.05$. siNC, negative control siRNA