



# Corrigendum: STAT5a Confers Doxorubicin Resistance to Breast Cancer by Regulating ABCB1

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## A Corrigendum on

### STAT5a Confers Doxorubicin Resistance to Breast Cancer by Regulating ABCB1

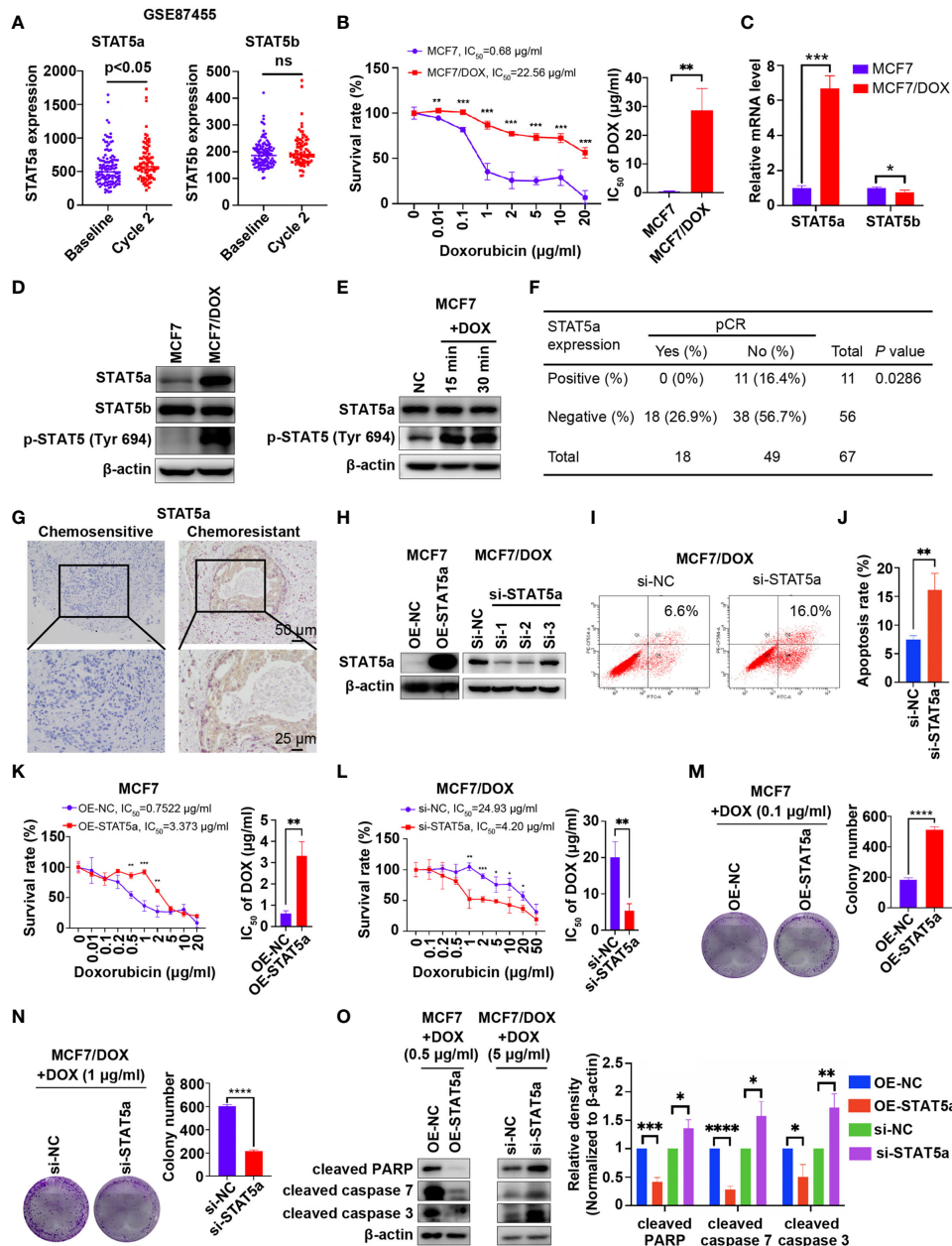
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In the original article, there was a mistake in **Figure 1** as published. In **Figure 1F**, the number “42” should be “38”. The corrected **Figure 1** appears below.

The authors apologize for this error and state that this does not change the scientific conclusions of the article in any way. The original article has been updated.

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**FIGURE 1** | STAT5a is involved in chemoresistance in breast cancer. **(A)** Expression of STAT5a and STAT5b in breast cancer samples collected pre- and postchemotherapy in the dataset GSE87455. **(B)** Survival rates of MCF7 and MCF7/DOX cells after treatment with DOX for 48 h determined by a CCK8 assay. **(C)** mRNA levels of STAT5a and STAT5b in MCF7 and MCF7/DOX cells assessed via qPCR. **(D)** Protein levels of STAT5a, p-STAT5a (Tyr694) and STAT5b in MCF7 and MCF7/DOX cells determined by Western blotting. **(E)** Western blotting was performed to examine the expression of STAT5a and p-STAT5 (Tyr694) in CF7 cells upon treatment with DOX. **(F)** Correlation between the pCR rate and STAT5a expression in breast cancer samples obtained from 67 patients. **(G)** Representative images of IHC staining for STAT5a in chemoresistant and chemosensitive breast cancer samples. **(H)** Efficiency of vector transfection for overexpression of STAT5a in MCF7 cells and siRNA transfection for knockdown of STAT5a in MCF7/DOX cells determined by Western blotting. **(I, J)** Flow cytometry was performed to assess apoptosis in MCF7/DOX cells after knocking down STAT5a or control treatment **(I)**. Bar graphs showing the percentage of apoptotic cells **(J, K)** Survival rate and IC50 of MCF7 cells transfected with an empty vector or a STAT5a vector after treatment with DOX for 48 h determined by a CCK8 assay. **(L)** Survival rate and IC50 of MCF7/DOX cells transfected with scramble siRNA or STAT5a-targeting siRNA after treatment with DOX for 48 h determined by a CCK8 assay. **(M, N)** Representative images and quantification of colonies formed by MCF7 cells transfected with the empty vector or STAT5a vector **(M)** and MCF7/DOX cells transfected with scramble siRNA or STAT5a-targeting siRNA **(N)** in medium containing the indicated concentration of DOX. **(O)** The expression levels of apoptosis markers in MCF7 cells transfected with the empty vector or STAT5a vector and MCF7/DOX cells transfected with scramble siRNA or STAT5a-targeting siRNA under treatment with the indicated concentration of DOX determined by Western blotting. ns, p > 0.05; \*p < 0.05; \*\*p < 0.01; \*\*\*p < 0.001; \*\*\*\*p < 0.0001.