

CORRECTION

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# Correction: Epithelial cell adhesion molecule (EpCAM) regulates HGFR signaling to promote colon cancer progression and metastasis

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**Correction: Journal of Translational Medicine (2023) 21:530**

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Following publication of the original article [1], we have been notified about the errors in Fig. 7A, B, G. In Fig. 7A, B, the label of NMIgG should be revise to “–” in the EpAb2-6 and Crizotinib combine treatment group. In Fig. 7G, the red curve is NMIgG + Crizotinib and the blue curve is EpAb2-6 + Vehicle.

The incorrect version of Fig. 7 is as per below:

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The original article can be found online at <https://doi.org/10.1186/s12967-023-04390-2>.

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Han-Chung Wu

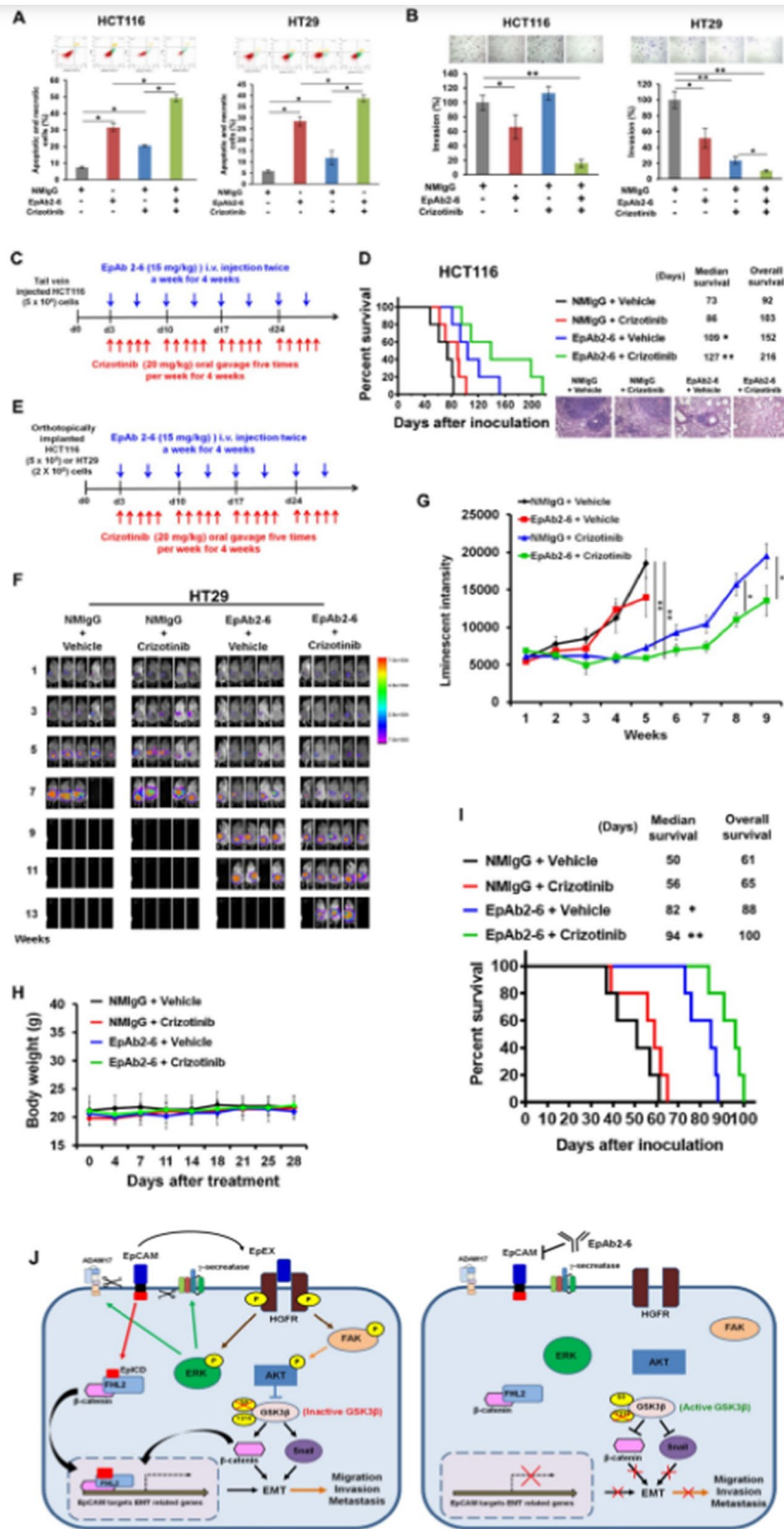
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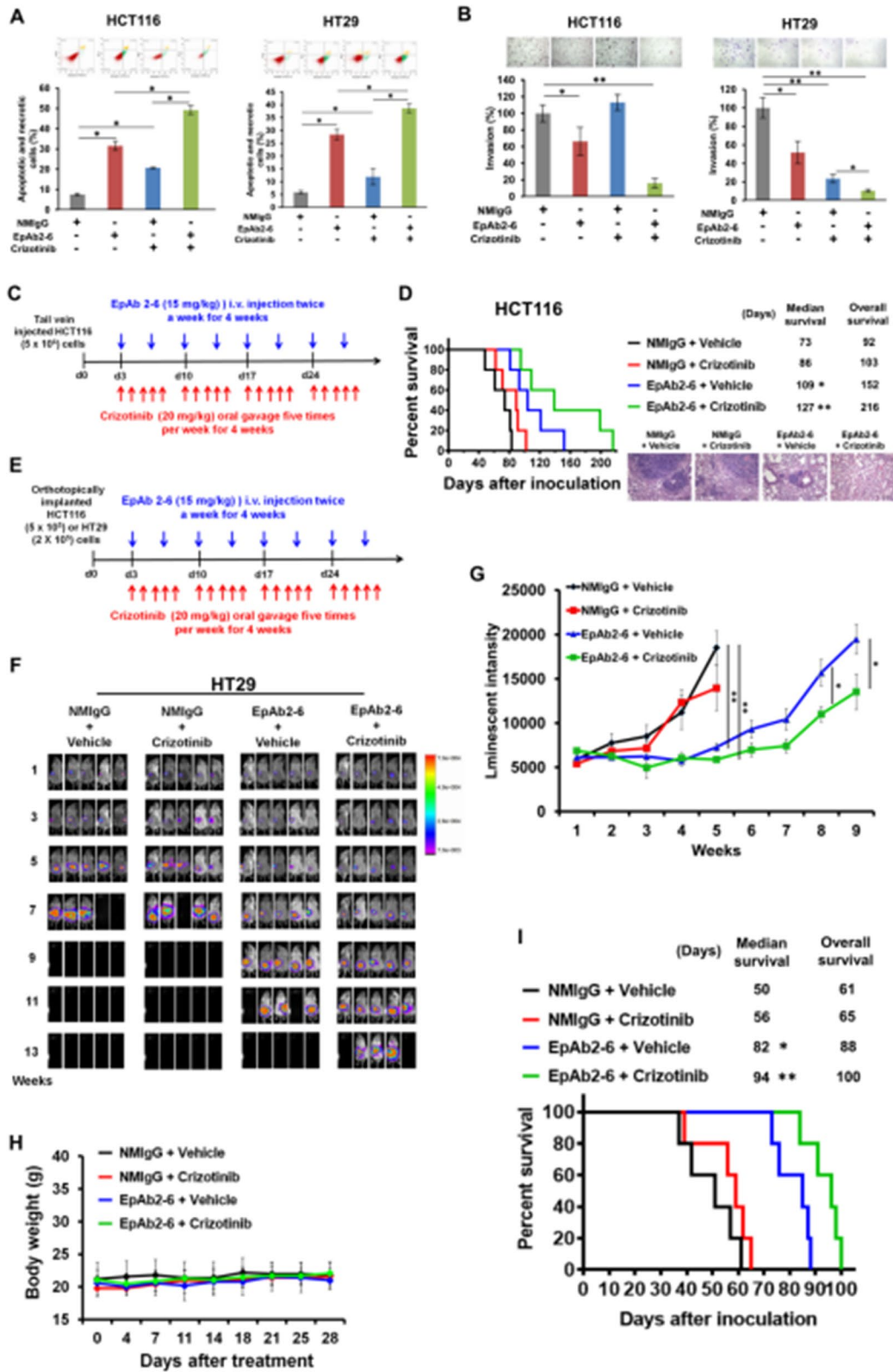
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**Fig. 7** EpAb2-6 and crizotinib coordinately inhibit tumor progression and metastasis. **A** HCT116 and HT29 cells were treated with 10  $\mu\text{g/ml}$  NMIgG or EpAb2-6 and 4  $\mu\text{M}$  HGFR inhibitor crizotinib for 24 h. The apoptotic and necrotic cells were quantified by fluorescein annexin V-FITC/PI double labeling. **B** HCT116 and HT29 cells were treated with 10  $\mu\text{g/ml}$  NMIgG or EpAb2-6 and 10  $\mu\text{M}$  HGFR inhibitor crizotinib. Cell invasion was assessed by a Transwell assay with matrigel after 24 h. **C** Timeline of the experiment to evaluate EpAb2-6 and/or crizotinib effects in the metastatic animal model. **D** NOD/SCID mice were intravenously injected with  $5 \times 10^6$  HCT116 cells, followed by treatment with either control IgG, EpAb2-6 and/ or crizotinib. The survival curve, median survival days and representative H&E staining of lung tissues in metastatic animal models are shown. **E** Timeline of the experiment to evaluate EpAb2-6 and/or crizotinib in the orthotopic animal model. **F** NOD/SCID mice received orthotopic implantation of HT29-Luc cells and then were treated with control IgG (normal mouse IgG, NMIgG), crizotinib, EpAb2-6, or crizotinib combined with EpAb2-6 starting at 3 days after tumor inoculation. Tumor growth was monitored by examining

bioluminescence with the IVIS 200 Imaging System. **G** HT29-Luc tumor cells monitored by bioluminescence quantification. **H** Body-weights of each treatment group in the HT29 orthotopic animal model after indicated treatments. **I** Survival curves and median survival days of each treatment group in the HT29 orthotopic animal model. **J** Summary illustration of the cell signaling events mediating EpCAM tumorigenic effects. In brief, EpEX binds to HGFR then stimulates HGFR to induce ERK and FAK-AKT activation, which promotes active  $\beta$ -catenin and Snail protein stabilization via reducing GSK3 $\beta$  activity that drives tumor progression, migration, and invasion. The EpCAM neutralizing antibody EpAb2-6 inhibits cancer cell invasion by blocking EpEX-HGFR axis mediated downstream signaling to promote reduction of active  $\beta$ -catenin and Snail protein stability. Statistical differences were determined by two-tailed Student t test. N = 5 independent experiments. All data are presented as mean  $\pm$  SEM. \* $p < 0.01$

The correct version of Fig. 7 is as per below:



**Fig. 7.** EpAb2-6 and crizotinib coordinately inhibit tumor progression and metastasis. **A** HCT116 and HT29 cells were treated with 10  $\mu\text{g/ml}$  NMIgG or EpAb2-6 and 4  $\mu\text{M}$  HGFR inhibitor crizotinib for 24 h. The apoptotic and necrotic cells were quantified by fluorescein annexin V-FITC/PI double labeling. **B** HCT116 and HT29 cells were treated with 10  $\mu\text{g/ml}$  NMIgG or EpAb2-6 and 10  $\mu\text{M}$  HGFR inhibitor crizotinib. Cell invasion was assessed by a Transwell assay with matrigel after 24 h. **C** Timeline of the experiment to evaluate EpAb2-6 and/or crizotinib effects in the metastatic animal model. **D** NOD/SCID mice were intravenously injected with  $5 \times 10^6$  HCT116 cells, followed by treatment with either control IgG, EpAb2-6 and/or crizotinib. The survival curve, median survival days and representative H&E staining of lung tissues in metastatic animal models are shown. **E** Timeline of the experiment to evaluate EpAb2-6 and/or crizotinib in the orthotopic animal model. **F** NOD/SCID mice received orthotopic implantation of HT29-Luc cells and then were treated with control IgG (normal mouse IgG, NMIgG), crizotinib, EpAb2-6, or crizotinib combined with EpAb2-6 starting at 3 days after tumor inoculation. Tumor growth was monitored by examining bioluminescence with the IVIS 200 Imaging System. **G** HT29-Luc tumor cells monitored by bioluminescence quantification. **H** Body-weights of each treatment group in the HT29 orthotopic animal model after indicated treatments. **I** Survival curves and median survival days of each treatment group in the HT29 orthotopic animal model. **J** Summary illustration of the cell signaling events mediating EpCAM tumorigenic effects. In brief, EpEX binds to HGFR then stimulates HGFR to induce ERK and FAK-AKT activation, which promotes active  $\beta$ -catenin and Snail protein stabilization via reducing GSK3 $\beta$  activity that drives tumor progression, migration, and invasion. The EpCAM neutralizing antibody EpAb2-6 inhibits cancer cell invasion by blocking EpEX-HGFR axis mediated downstream signaling to promote reduction of active  $\beta$ -catenin and Snail protein stability. Statistical differences were determined by two-tailed Student t test.  $N=5$  independent experiments. All data are presented as mean  $\pm$  SEM. \* $p < 0.01$

We were also notified that there was incorrectly description in the text body of the article ('Material and methods' section).

It is now:

To observe the Wnt HGFR-EpEX interaction, the cells were fixed and co-stained with HGFR or EpEX antibodies as described earlier in the IFS with cell lines section.

It should be:

To observe the HGFR-EpEX interaction, the cells were fixed and co-stained with HGFR or EpEX antibodies as described earlier in the IFS with cell lines section.

The original article was updated.

Published online: 08 January 2024

#### Reference

1. Lee C-C, Yu C-J, Panda SS, Chen K-C, Liang K-H, Huang W-C, Wang Y-S, Ho P-C, Wu H-C. Epithelial cell adhesion molecule (EpCAM) regulates HGFR signaling to promote colon cancer progression and metastasis. *J Transl Med.* 2023;21:530. <https://doi.org/10.1186/s12967-023-04390-2>.

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