

CORRECTION

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Correction to: Dihydroartemisinin inhibits TCTPdependent metastasis in gallbladder cancer

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Following publication of the original article [1], the authors identified minor errors in Figs. 3, 6, and S1; specifically:

- Fig. 3A: Incorrect migration assay images originally used for the TCTP-positive cell lines GBC-SD; the correct images are now used, and a scale bar has been added
- Fig. 6G: scale bars have been added to the images showing lung metastatic tissues of gallbladder cancer perfused with Indian ink
- Fig. S1F: scale bars have been added to the images showing lung metastatic tissues of gallbladder cancer perfused with Indian ink

The corrected figures are given here. The correction does not have any effect on the final conclusions of the paper.

Supplementary Information

The online version contains supplementary material available at <https://doi.org/10.1186/s13046-022-02325-1>.

Additional file 1: Figure S1. (A) TCTP expression was evaluated using IHC staining in 73 gallbladder cancer samples obtained from patients. A bar graph summarizes the number of TCTP-positive and -negative tissue samples. (B) Chemical structure of DHA. (C) DHA reduces TCTP expression levels in the cell lysates of NOZ cells at 48 h after exposure to DHA (40 μ M). β -actin was used as the loading control. (D) TCTP-positive GBC-SD and TCTP-negative EH-GB-2 cells were pre-treated with vehicle or DHA (40 μ M) for 2 days and then seeded in transwells for 24 h for the invasion assays. (E) The relative invasion rates are shown in a bar graph. (F) The mice were intravenously injected with TCTP-negative EH-GB-2 cells expressing luciferase to establish a lung metastasis model and then treated with DHA or a vehicle control (PBS) via IP injections every day. The bioluminescence of the cells was monitored every 2 weeks. Proton flux was evaluated using Xenogen IVIS LuminaXR software. The data represent the mean \pm SD. ** $p < 0.001$. NS: no significant difference. (G) Representative photos of histological lung metastasis tissues are shown for each group. A bar graph summarizes the number of lung metastases in the DHA-treated and control groups. (H) Kaplan–Meier plots of survival in the mice in the DHA- and control-treated groups.

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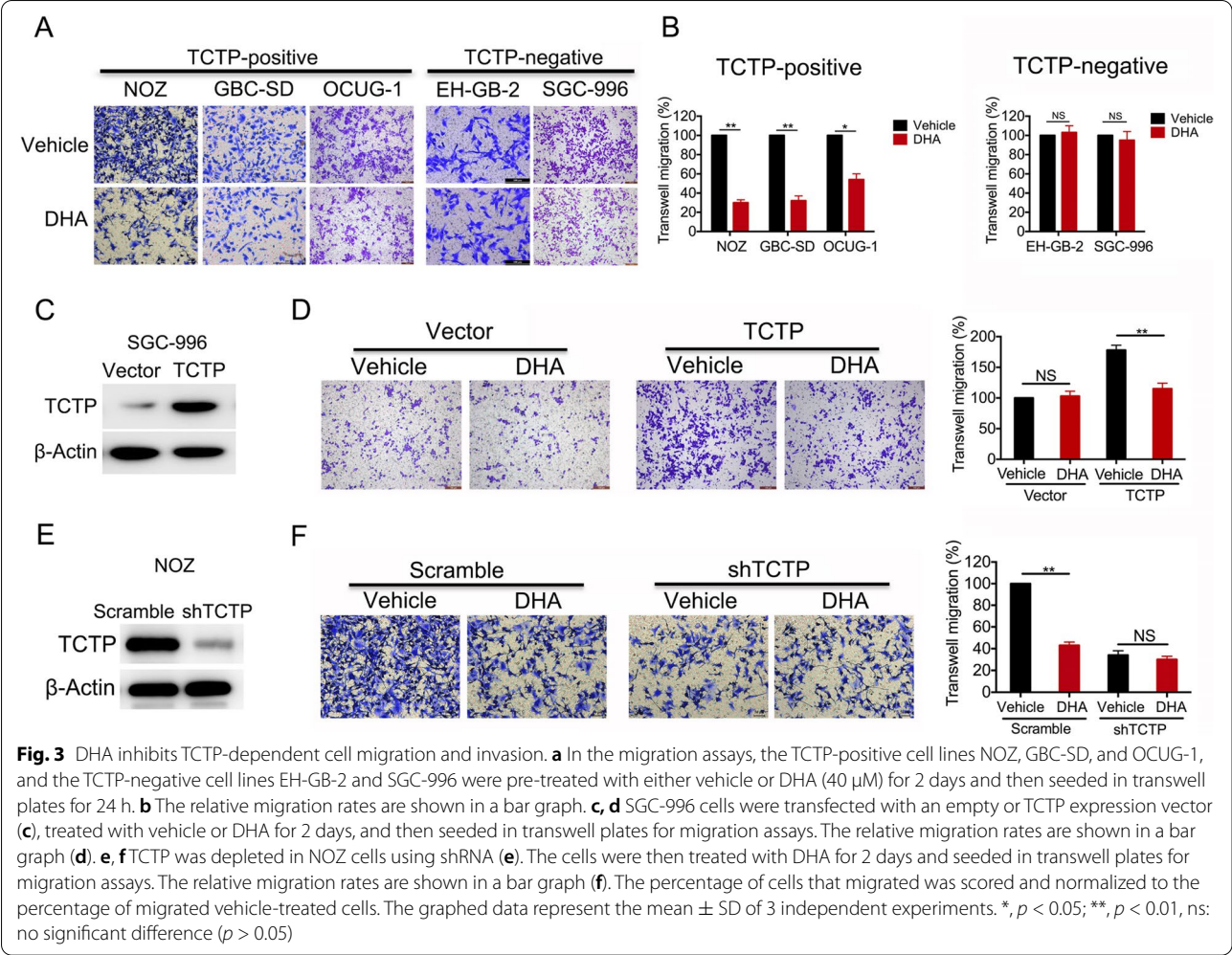
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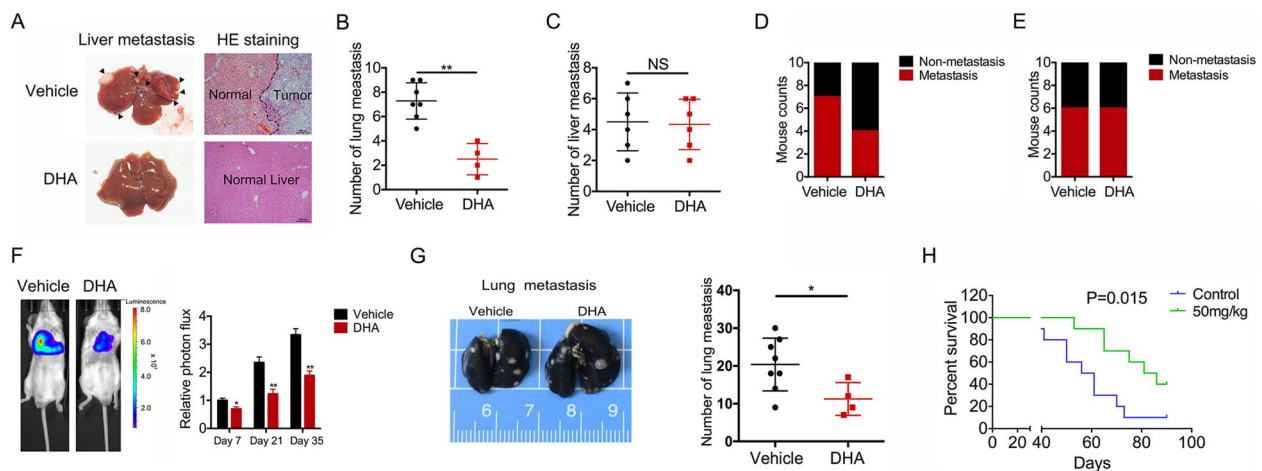


Fig. 6 DHA reduces TCTP-dependent metastasis in vivo. **a** GBC cells were injected into the spleens of immunodeficient mice to establish a spleen-to-liver metastasis model, and the mice were then treated with DHA or vehicle control (PBS) via an IP injection every day. Representative photos of histological H&E-stained liver metastasis tissues are shown for each group. **b-c** A bar graph summarizing the number of liver metastases in the DHA-treated and control NOZ (**b**) and EH-GB-2 (**c**) cells. **d-e** A bar graph summarizing the incidence of liver metastasis in the DHA-treated and control NOZ (**d**) and EH-GB-2 (**e**) cells. **f** To establish a lung metastasis model, mice were intravenously injected into the tail with NOZ cells that expressed luciferase and then treated with DHA or vehicle control (PBS) via an IP injection every day. The bioluminescence of the cells was monitored every 2 weeks. Photon flux was evaluated using Xenogen IVIS LuminaXR software. The data shown represent the mean \pm SD. ****** $p < 0.001$. **NS**: no significant difference. **g** Representative photos of histological lung metastasis tissues are shown for each group. A bar graph is used to summarize the number of lung metastases in the DHA-treated and control groups. **h** Kaplan–Meier plots of survival in the mice in the DHA-treated and control groups. Each group contained 10 mice

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