


CORRECTION

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Correction: *Bifidobacterium adolescentis* induces Decorin⁺ macrophages via TLR2 to suppress colorectal carcinogenesis

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Correction: *J Exp Clin Cancer Res* 42, 172 (2023)
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Following publication of the original article [1], authors identified an error in Fig. 4F. The images in Fig. 4F are mistakenly pasted.

The corrected Fig. 4 is presented below:

The correction does not affect the overall conclusion of the article. The original article has been corrected.

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[†]Yifeng Lin, Lina Fan and Yadong Qi contributed equally to this work.

The original article can be found online at <https://doi.org/10.1186/s13046-023-02746-6>.

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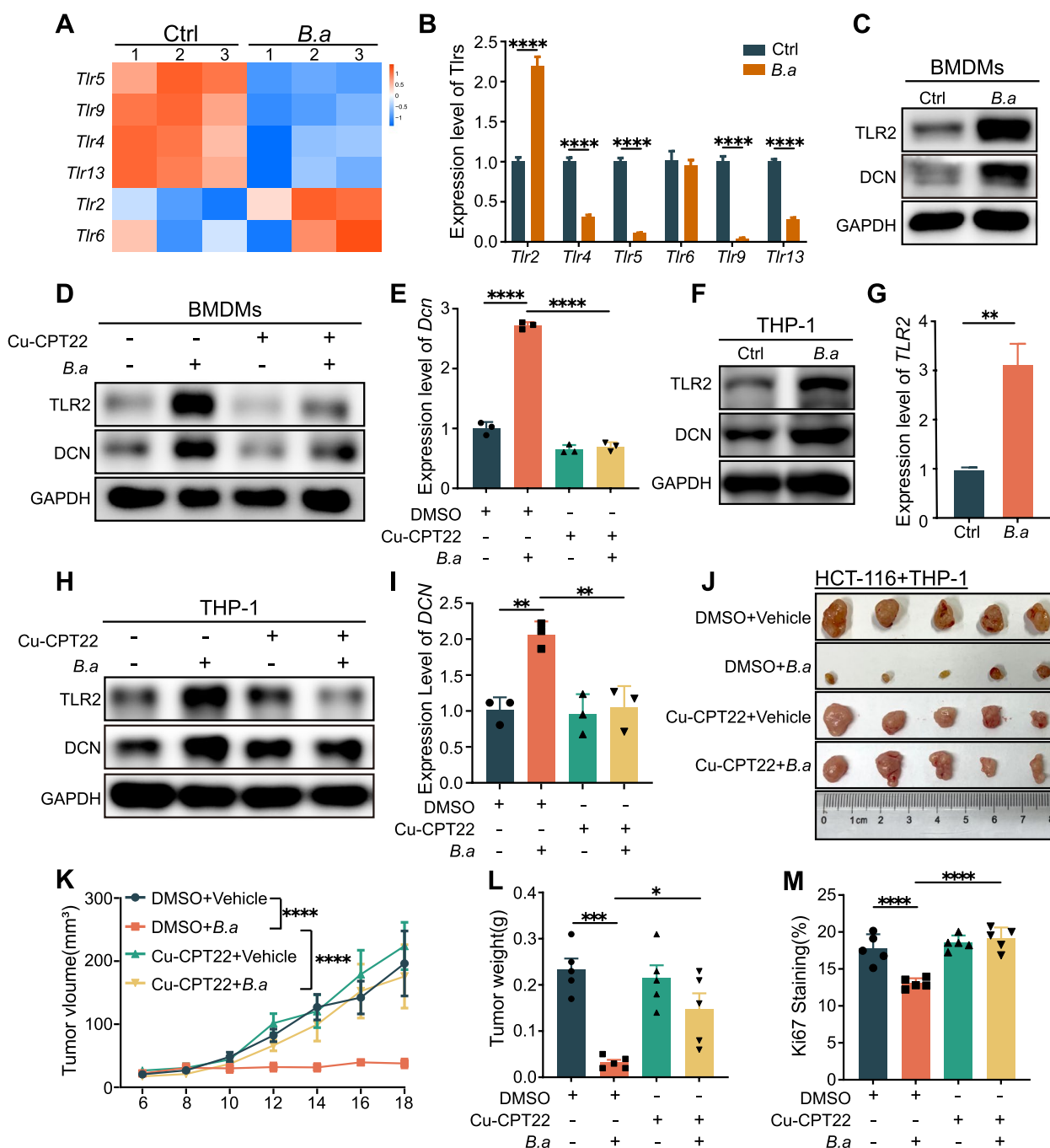


Fig. 4 The activation of TLR2 is essential for inducing DCN⁺ macrophages by *B.adolescentis*. **A** The heatmap of differentially expressed TLRs genes in RNA-seq of BMDMs treated with *B.adolescentis* or vehicle (PBS). **B** The levels of differentially expressed TLRs genes in BMDMs treated with *B.adolescentis* were determined by qRT-PCR. **C** BMDMs were incubated with *B.adolescentis* or vehicle (PBS) for 24 h. Protein levels of TLR2 and DCN were tested by Western blot. **D-E** BMDMs were incubated with *B.adolescentis* or vehicle (PBS) for 24 h with or without 25uM Cu-CPT22. Protein levels of TLR2 and DCN were tested by Western blot and mRNA level of *Dcn* was tested by qRT-PCR. **(F-I)** THP-1 cells were incubated with *B.adolescentis* or vehicle (PBS) for 24 h **(H-G)**. THP-1 cells were incubated with *B.adolescentis* or vehicle (PBS) for 24 h with or without 25uM Cu-CPT22 **(H-I)**. Protein levels of TLR2 and DCN were tested by Western blot and mRNA level of *DCN* was tested by qRT-PCR. **J-L** HCT116 cells were injected into BALB/C nude mice combined with THP-1 cells pretreated with *B.adolescentis* or vehicle (PBS) for 24 h ($n = 5$ per group). From the beginning of tumor inoculation until sacrifice, 3 mg/kg Cu-CPT22 or vehicle (5% DMSO) were injected intraperitoneally to mice every two days. Tumor volume was recorded after 6 days. **M** The positive ratio of Ki67 in mice tumor tissue. The independent experiment was repeated three times. Data are shown as mean \pm SD. * $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$, **** $P < 0.0001$; Student *t* test (**B, G**), ANOVA test (**E, I, K, L, M**)

Reference

1. Lin Y, Fan L, Qi Y, et al. *Bifidobacterium adolescentis* induces Decorin⁺ macrophages via TLR2 to suppress colorectal carcinogenesis. *J Exp Clin Cancer Res*. 2023;42:172. <https://doi.org/10.1186/s13046-023-02746-6>.

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