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CORRECTION OPEN



Correction: A positive feedback loop regulation between NOTCH1 and USP11 in T-cell leukemia

Igor Fijalkowski, Jin Wang, Qi Jin, Jolien Van Laere, Valentina Serafin, John D. Crispino 📵 and Panagiotis Ntziachristos 📵

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Correction to: *Leukemia* https://doi.org/10.1038/s41375-023-02096-4, published online 25 November 2023

Publisher Correction

In this article, the wrong figure and legend appeared as Fig. 1E:

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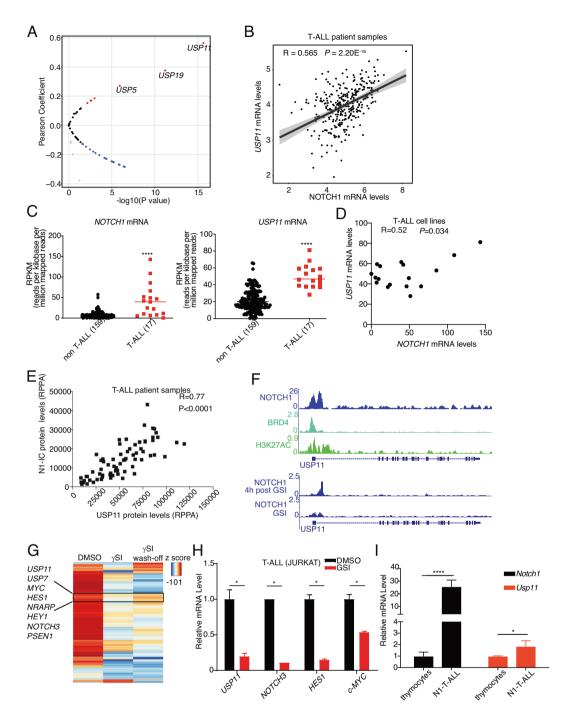
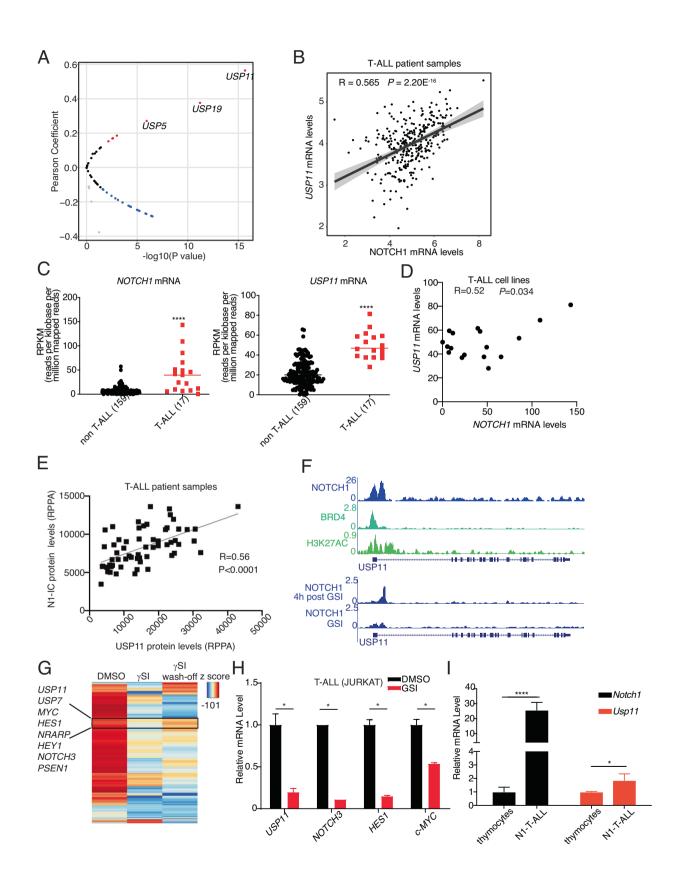


Fig. 1 NOTCH1 and USP11 expression levels are positively correlated in T-ALL. A Volcano plot showing Pearson correlation between 52 *USPs* and *NOTCH1* mRNA levels in T-ALL patient samples analyzed from the Pediatric Cancer Genome Project data portal (PeCan, St. Jude, Memphis). **B** Pearson correlation between *NOTCH1* and *USP11* mRNA levels in T-ALL patient samples (source: PeCan). **C** RPKM values for *NOTCH1* and *USP11* in 176 blood cancer cell lines were obtained from https://software.broadinstitute.org/morpheus/, using the CCLE RNA sequencing data. These include 17 T-ALL cell lines, and all other cell lines were analyzed against these T-ALL cell lines. A two-tailed unpaired *t*-test was conducted using the RPKM values (****P < 0.0001). **D** Pearson correlation between *NOTCH1* and *USP11* mRNA levels in 17 T-ALL cell lines analyzed from CCLE RNA sequencing data. **E** Reverse-phase protein array (RPPA)

for USP11 and intracellular NOTCH1 (N1IC) protein levels (n=64). **F** Tracks showing NOTCH1, BRD4, and the activating histone marks H3K27Ac ChIP-Seq signal enrichment in T-ALL cells (CUTLL1) at the *USP11* locus. **G** Heatmap representation of significant gene expression changes upon treatment of CUTLL1 cells with gamma-secretase inhibitor (γSI) followed by drug wash-off for 320′ (*wash-off*) [7]. Classical NOTCH1 targets (e.g., *HES1*, *MYC*, *NRAPR*) and the deubiquitinases *USP7* and *USP11* follow the intracellular NOTCH1 levels. **H** JURKAT T-ALL cells were treated with γSI (1 μM) for 24 h. RT-qPCR analysis of *USP11* and other *NOTCH1* targets was shown (*P < 0.05). I RT-qPCR analysis of *Usp11* and *Notch1* in normal mouse thymocytes and spleen cells isolated from N1ΔE induced mouse T-ALL model (*P < 0.05, ****P < 0.00001).

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Fig. 1 NOTCH1 and USP11 expression levels are positively correlated in T-ALL. A Volcano plot showing Pearson correlation between 52 USPs and NOTCH1 mRNA levels in T-ALL patient samples analyzed from the Pediatric Cancer Genome Project data portal (PeCan, St. Jude, Memphis). **B** Pearson correlation between NOTCH1 and USP11 mRNA levels in T-ALL patient samples (source: PeCan). C RPKM values for NOTCH1 and USP11 in 176 blood cancer cell lines were obtained from https://software.broadinstitute.org/ morpheus/, using the CCLE RNA sequencing data. These include 17 T-ALL cell lines, and all other cell lines were analyzed against these T-ALL cell lines. A two-tailed unpaired t-test was conducted using the RPKM values (****P < 0.0001). **D** Pearson correlation between NOTCH1 and USP11 mRNA levels in 17 T-ALL cell lines analyzed from CCLE RNA sequencing data. E Reverse-phase protein array (RPPA) for USP11 and intracellular NOTCH1 (N1IC) protein levels (n = 61). **F** Tracks showing NOTCH1, BRD4, and the activating histone marks H3K27Ac ChIP-Seg signal enrichment in T-ALL cells (CUTLL1) at the *USP11* locus. **G** Heatmap representation of significant gene expression changes upon treatment of CUTLL1 cells with gamma-secretase inhibitor (ySI) followed by drug wash-off for 320' (wash-off) [7]. Classical NOTCH1 targets (e.g., HES1, MYC, NRAPR) and the deubiquitinases USP7 and USP11 follow the intracellular NOTCH1 levels. H JURKAT T-ALL cells were treated with γ SI (1 μ M) for 24 h. RT-qPCR analysis of *USP11* and other NOTCH1 targets was shown (*P < 0.05). I RT-qPCR analysis of *Usp11* and *Notch1* in normal mouse thymocytes and spleen cells isolated from N1 Δ E induced mouse T-ALL model (*P < 0.05, ****P < 0.00001).

The original article has been corrected.

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