

CORRECTION

Correction: RNA-Binding Protein FXR1 Regulates p21 and TERC RNA to Bypass p53-Mediated Cellular Senescence in OSCC

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In panel G of [Fig 4](#), the specified hours (in the inset) for shControl- $t_{1/2}$ and shFXR1- $t_{1/2}$ are incorrectly switched. Please see the correct figure here.



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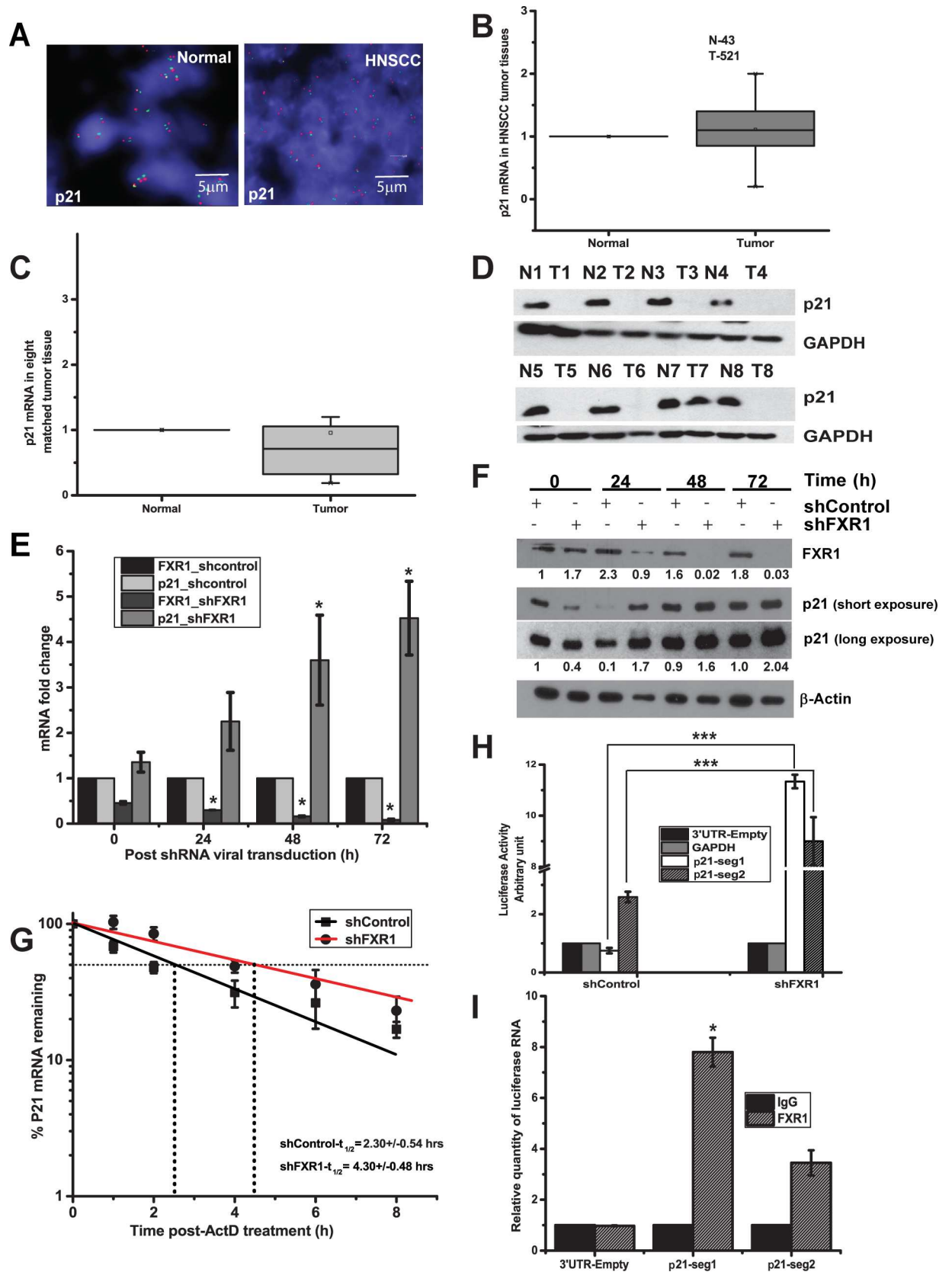


Fig 4. FXR1 destabilizes *p21* mRNA. (A) FISH analysis of *p21* in a HNSCC TMA. Green indicates *p21* and red denotes the control loci (scale bar 5 μ m). (B) Relative *p21* expression data obtained from cancer genome browser (N-43, T-521) (S4 Table). (C) Relative mRNA quantity of *p21* in eight matched HNSCC tumor compared to normal adjacent tissue samples estimated using qRT-PCR. GAPDH serves as a control. (D) Immunoblot analysis of *p21* protein from eight representative matched HNSCC tumor and normal adjacent samples. GAPDH is used as a loading control. (E) Relative quantity of *FXR1* and *p21* levels estimated by qRT-PCR in UMSCC74B cells after treatment with *FXR1* shRNA. Cells were collected at indicated time points. *FXR1* and *p21* levels in shControl treated UMSCC74B cells were taken as 1 for each time points. (F) Immunoblot analysis of *p21* protein at different time points, as mentioned in Fig 4E. (G) The mRNA decay rate of *p21* as indicated in UMSCC74B cells by qRT-PCR after silencing *FXR1* followed by transcription inhibition with actinomycin-D for mentioned time points in the graph. Actin serves as a control. Data here represents the mean of n = 3 experiments. (H) Forty-eight hours after transfection of UM74B *FXR1* KD and control cells with empty 3'UTR luciferase plasmid, luciferase-fused *GAPDH* 3'UTR plasmid or different segments of *P21* 3'UTR, the lysates were analyzed for luciferase activity using luminometer. The empty 3'UTR luciferase plasmid and luciferase-fused *GAPDH* 3'UTR served as a transfection and loading control. Values are the means \pm SD from three independent experiments by using unpaired two sample t-test. (I) Binding of *FXR1* with the 3'UTR of *p21seg1* and *p21seg2* RNAs at the G4 region. RNP IP was performed 48 h post-transfection of UMSCC74B cells with *seg1* and *seg2* 3'UTR fused to a luciferase reporter construct. Luciferase mRNA was detected using qRT-PCR. The luciferase gene in the empty-3'UTR was used as a transfection and qRT-PCR control. (* p <0.05, ** p <0.005, *** p <0.0005).

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Reference

1. Majumder M, House R, Palanisamy N, Qie S, Day TA, Neskey D, et al. (2016) RNA-Binding Protein *FXR1* Regulates *p21* and *TERC* RNA to Bypass p53-Mediated Cellular Senescence in OSCC. *PLoS Genet* 12(9): e1006306. doi:10.1371/journal.pgen.1006306 PMID: 27606879