PLOS GENETICS

CORRECTION

Correction: MDM2 E3 ligase activity is essential for p53 regulation and cell cycle integrity

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Fig 3 is incorrect. [1] In panels F and G, Mdm2-/- should be Mdm2+/+. The authors have provided a corrected version here.

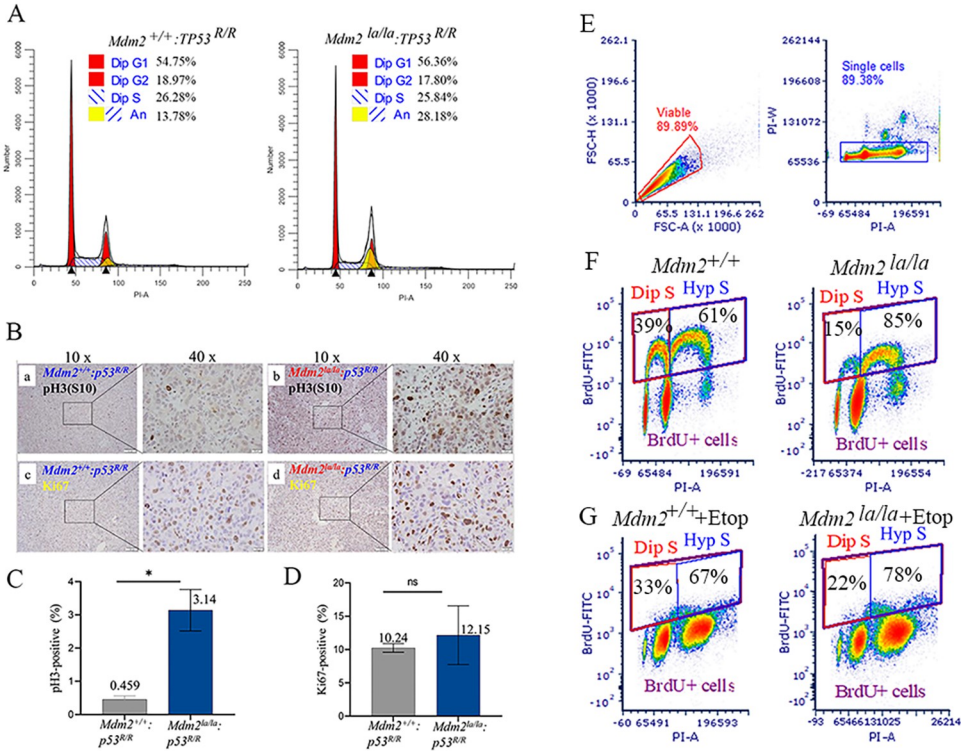

Fig 3. p53-null *Mdm2*$^{la/la}$ MEFs and sarcoma cells have defects in and increased and G2-M transition hyperploidy. (**A**) Cell cycle profiles of *Mdm2*$^{la/la}$: *TP53*$^{R/R}$ and *Mdm2*$^{+/+}$: *TP53*$^{R/R}$ MEFs (passage 6) by flow cytometry. Dip, diploid, An, aneuploid. (**B**) Increased phospho-Histone 3 at Serine 10 (pH3(S10) in *p53*-deficient *Mdm2*$^{la/la}$ sarcoma tissues. Representative histochemical staining of pH3(S10) (a, b) and Ki67 (c, d) in sarcoma tissues from *p53*$^{-/-}$: *Mdm2*$^{+/+}$ (a, c) or *p53*$^{-/-}$: *Mdm2*$^{la/la}$ (b, d) mice. Left images at 10x magnification and at 40x magnification of image areas in frame shown on the right. (**C**) Quantitative analysis of pH3(S10) staining in two *p53*$^{-/-}$: *Mdm2*$^{+/+}$ and three *p53*$^{-/-}$: *Mdm2*$^{la/la}$ sarcoma samples. *, *t* test, p = 0.0106. (**D**) Quantitative analysis of Ki67-positive cells in two *p53*$^{-/-}$: *Mdm2*$^{+/+}$ and three *p53*$^{-/-}$: *Mdm2*$^{la/la}$ sarcoma samples. ns, *t* test, *p* = 0.604. (**E**) *Mdm2*$^{+/+}$-tetp53 and *Mdm2*$^{la/la}$-tetp53 MEFs were used for BrdU labeling experiments. Gating settings are shown to define viable, singlet and BrdU-positive cells. (**F**) Diploid S (Dip S) and hyperploid S (Hyp S) fractions of *Mdm2*$^{+/+}$-tetp53 and *Mdm2*$^{la/la}$-tetp53 MEFs were presented. (**G**) Diploid S (Dip S) and hyperploid S (Hyp S) fractions of etoposide-treated (5μM, 24h) *Mdm2*$^{+/+}$-tetp53 and *Mdm2*$^{la/la}$-tetp53 MEFs were shown.

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Reference

1. Chinnam M, Xu C, Lama R, Zhang X, Cedeno CD, Wang Y, et al. (2022) MDM2 E3 ligase activity is essential for p53 regulation and cell cycle integrity. PLoS Genet 18(5): e1010171. https://doi.org/10.1371/journal.pgen.1010171 PMID: 35588102