CORRECTION

Correction: Suppression of MAPK Signaling and Reversal of mTOR-Dependent MDR1-Associated Multidrug Resistance by 21 α -Methylmelianodiol in Lung Cancer Cells

Mark Borris Docdoc Aldonza, Ji-Young Hong, Song Yi Bae, Jayoung Song, Won Kyung Kim, Jedo Oh, Yoonho Shin, Seung Ho Lee, Sang Kook Lee

[Fig 8](#) is incorrect in the published article. Please view the correct [Fig 8](#) here.

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Fig 8. Subsequent downregulation of P-gp/MDR1 expression and inhibitory enhancement of 21 α -MMD by stimulating mTOR and related signaling. (A) A549-PacR cells were incubated with 21 α -MMD (25–100 μ M) for 24 h. Whole-cell lysates were subjected to Western blot analysis using anti-ERK, anti-JNK, anti-p38, anti-Akt, anti-mTOR, anti-PI3K, anti-AMPK and antibodies related to their phosphorylated forms. The β -actin and phospho-protein relevant to the total protein bands confirmed the integrity and equal loading of total protein and phospho-proteins respectively. All protein levels were normalized to the β -actin levels. (B and C) Effect of mTOR knockdown was established first by transiently transfecting mTOR siRNA to A549-PacR cells for 24 h. Scramble siRNA was used as control separated from the mock control. mTOR and MDR1/P-gp protein and mRNA gene expressions were examined by Western

blotting and PCR analysis respectively. (D and E) Cells were transiently transfected with mTOR siRNA or Scramble siRNA for 24 h followed by a 24 h exposure to 25 μ M 21 α -MMD. MDR1/P-gp protein and mRNA gene expression levels were confirmed by Western blotting and PCR analysis respectively. (F) After mTOR siRNA or Scramble siRNA transfections, cells were treated with 100 nM paclitaxel for various time courses and mTOR siRNA was subsequently incorporated with 25 μ M 21 α -MMD followed by cell viability assessment through MTT assay.

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Reference

1. Aldonza MBD, Hong J-Y, Bae SY, Song J, Kim WK, Oh J, et al. (2015) Suppression of MAPK Signaling and Reversal of mTOR-Dependent MDR1-Associated Multidrug Resistance by 21 α -Methylmelianodiol in Lung Cancer Cells. PLoS ONE 10(6): e0127841. doi:[10.1371/journal.pone.0127841](https://doi.org/10.1371/journal.pone.0127841) PMID: [26098947](https://pubmed.ncbi.nlm.nih.gov/26098947/)