CORRECTION

Correction: BNIP3 Regulates AT101 [(-)-Gossypol] Induced Death in Malignant Peripheral Nerve Sheath Tumor Cells

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There is an error in Fig 1. In Fig 1C, the y-axis should read: “Percentage of ethidium homodimer-1 positive dead cells.” Please see the corrected Fig 1 here.

There are errors in Fig 2. In Fig 2C, the bands of the western blot are labelled incorrectly. Please see the corrected Fig 2 here.
Fig 1. AT101 causes caspase-independent, non-apoptotic cell death in MPNST cells. AT101 treated cells demonstrate a concentration- and time-dependent decrease in viability (A, B). AT101 treatment causes concentration-dependent cytotoxicity in ST88–14 cells (C). The loss of cell viability is not accompanied by increased caspase-3 like enzymatic activity (D) and broad caspase inhibition with BAF did not protect from AT101-induced cell death (E). AT101 (15 μM for 24 hours) treatment does not increase annexin V staining in T265–2c cells (F). Staurosporine (STS) was used as a positive control for induction of caspase-3 like activity, annexin V staining and caspase-dependent apoptosis. * p-value <0.05. # = Not significant, p-value >0.05.

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Fig 2. AT101-induced autophagy in MPNST cells is not cytoprotective. Treatment with AT101 leads to a concentration-dependent increase in steady state levels of LC3-II in MPNST cells (A) and a punctate LC3-like immunostaining pattern indicative of AV accumulation (B). AT101 causes an increase in autophagic flux in MPNST cells as evidenced by increased LC3-II levels in cells treated with both AT101 (10 μM for 24 hours) and BafA1 (100 nM, added 4 hours before collection of lysates) compared to either drug alone (C). T265–2c cells treated with 3-Methyladenine (3 MA–5 mM one hour prior to treatment with AT101) showed decreased level of LC3-II accumulation (D) and a modest but statistically attenuation of AT101 (15 μM for 24 hours)-induced cell death (E). Scale bar = 20 microns. * p-value <0.05.

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Reference

1. Kaza N, Kohli L, Graham CD, Klocke BJ, Carroll SL, Roth KA (2014) BNIP3 Regulates AT101 [(-)-Gossypol] Induced Death in Malignant Peripheral Nerve Sheath Tumor Cells. PLoS ONE 9(5): e96733. doi:10.1371/journal.pone.0096733 PMID: 24824755