Supplementary Figure Legends

Supplementary Figure S1: MGMT mRNA level is a poor predictor of sensitivity to TMZ in DLBCL.

Correlation plot of MGMT mRNA level (X-axis) and TMZ cytotoxicity expressed as IC50 values (Y-axis) for a panel of 15 DLBCL cell lines. MGMT mRNA expression level was measured by qRT-PCR. Data are representative of 3 separate experiments. Error bars indicate SD.

Supplementary Figure S2: DAC induces expression of aberrantly methylated and expressed genes in TMZ resistant DLBCL.

A. Viability of DLBCL cell lines after 72 hours of treatment with DAC three times every 24 hr. B,C,D. RT-PCR for mRNA expression of SMAD1, IGLL1, and TOP2B in SUDHL-6, Ly3, and Ly10 cells before and after treatment with DAC daily for 3 days. Error bars indicate SD. E. Phospho-SMAD1 and SMAD1 protein expression after increasing doses of DAC and TGFβ1 as a positive control in Ly3 DLBCL cells detected by Western blotting analysis. The ratio of SMAD1 to actin and ph-SMAD1/5 to actin was determined by densitometry using ImageJ.

Supplementary Figure S3: DAC synergizes with TMZ in inhibition of tumor growth in vitro and in vivo causing complete response in TMZ resistant Ly3 DLBCL xenograft model.

A. DAC sensitizes chemo-refractory Ly3 DLBCL cells to TMZ in vitro. Combination indices (CI) were determined using the Chou-Talalay equation, as calculated by CalcuSyn software. B. TMZ and DAC synergize in Ly3 DLBCL xenograft model. N=5 in control, DAC alone, TMZ alone, and combination groups.