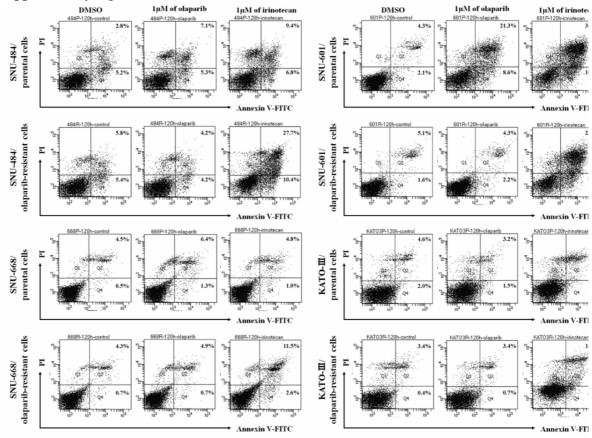




TDP1 and TOP1 Modulation in Olaparib-Resistant Cancer Determines the Efficacy of Subsequent Chemotherapy

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Supplementary Figure S1



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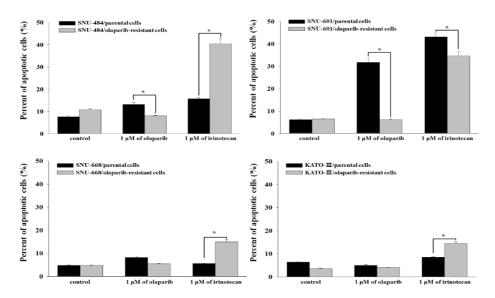
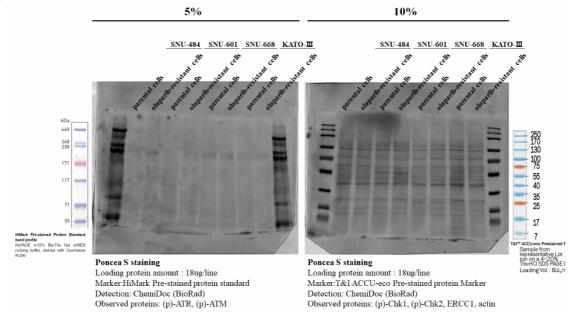


Figure S1. The populations of apoptotic cells following irinotecan or olaparib treatment. The percent of apoptotic cells were analyzed by performing Annexin V assay. The population of Annexin and PI dual positive cells were calculated and presented in a bar graph with SEs (n = 3), * p < 0.005.

Supplementary Figure S2

A



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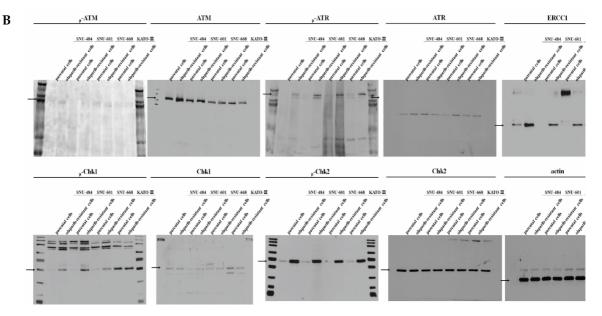


Figure S2. Protein expression levels of parental and olaparib-resistant cells. (**A**) Whole protein staining with Ponceau S reveals different expression levels of DDR molecules in parental and olaparib-resistant gastric cancer cells. (**B**) The basal expression levels of DDR proteins were detected in uncropped blots.

Supplementary Table S1. Sequences of the siRNAs.

gene	target sequence (5' \rightarrow 3')
non-specific	5'-AATTCTCCGAACGTGTCACG-3'
TOP1	5'-GGGAAGGACTCCATCAGATACTATA-3'
	5'-AAGTGGAAATGGTGGGAAGAA-3'
	5`-CGAAGAAGGTAGTAGAGTC-3`
TDP1	5`-GACCATATCTAGTAGTGAT-3`
	5`-GGAGTTAAGCCAAAGTATA-3`
	5`-CTAGACAGTTTCAAAGTG-3`