

Supplementary Table S1

Supplementary Table S1. Breast cancer cell lines' molecular receptor status and TNBC subtype classification.

Cell line	Receptor status			TNBC subtype
	ER	PR	HER2	
HCC1806	-	-	-	BL
HCC1937	-	-	-	BL
HCC3153	-	-	-	BL
HCC70	-	-	-	BL
MDA-MB-468	-	-	-	BL
SUM149PT *	-	-	-	BL
MDA-MB-453	-	-	-	LAR
SUM185PT	-	-	-	LAR
BT-549	-	-	-	M
Hs578T	-	-	-	M
MDA-MB-157	-	-	-	M
MDA-MB-231	-	-	-	M
MDA-MB-436	-	-	-	M
SUM159PT	-	-	-	M
IBC-3 *	-	-	+	N/A
KPL-4 *	-	-	+	N/A
SUM190PT *	-	-	+	N/A

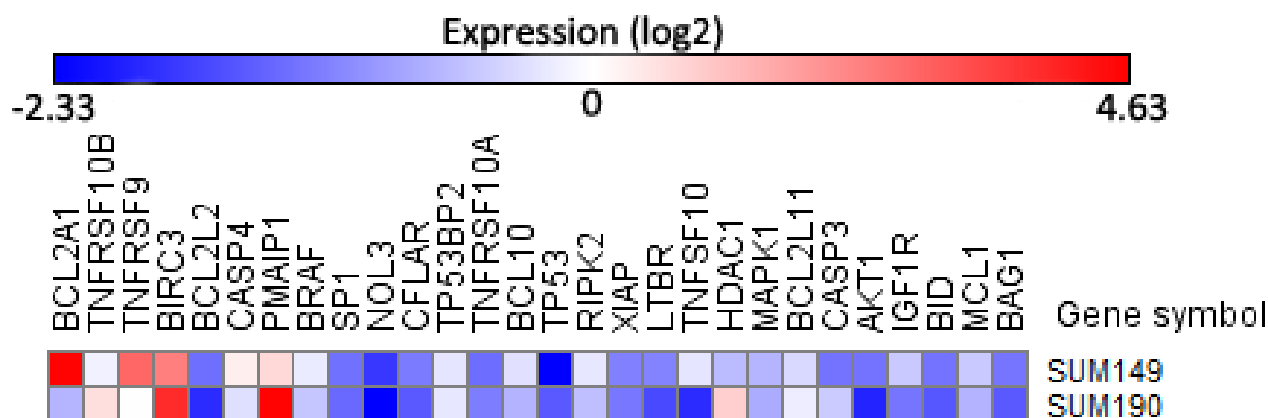
Supplementary Table S1. Breast cancer cell lines' molecular receptor status and TNBC subtype classification.

Sources for molecular receptor status, TNBC subtypes, and IBC classification: Asterand Bioscience, Inc., 32-34. ER: estrogen receptor; PR: progesterone receptor; HER2: Human epidermal growth factor receptor 2; BL: basal-like; M: mesenchymal; LAR: luminal androgen receptor; +, positive status; -, negative status; *, IBC diagnosis; N/A, not applicable.

Supplementary Table S2

Supplementary Table S2. Effect of entinostat on the expression of apoptosis-related gene pathways.

Gene symbol	Description	SUM149PT	SUM190PT
		Fold-change (log2)	Fold-change (log2)
BCL2A1	BCL2-related protein A1	4.63	0.41
TNFRSF10B	tumor necrosis factor receptor superfamily, member 10b	0.98	1.68
TNFRSF9	tumor necrosis factor receptor superfamily, member 9	3.28	1.30
BIRC3	baculoviral IAP repeat-containing 3	2.95	3.80
BCL2L2	BCL2-like 2	-0.78	-1.22
CASP4	caspase 4, apoptosis-related cysteine peptidase	1.41	0.91
PMAIP1	phorbol-12-myristate-13-acetate-induced protein 1	1.73	4.26
BRAF	v-raf murine sarcoma viral oncogene homolog B1	0.90	0.59
SP1	Sp1 transcription factor	-0.75	-0.49
NOL3	nucleolar protein 3 (apoptosis repressor with CARD domain)	-1.55	-1.74
CFLAR	CASP8 and FADD-like apoptosis regulator	-0.63	-0.67
TP53BP2	tumor protein p53 binding protein, 2	0.82	1.00
TNFRSF10A	tumor necrosis factor receptor superfamily, member 10a	-0.81	-0.25
BCL10	B-cell CLL/lymphoma 10	0.77	0.40
TP53	tumor protein p53	-2.33	-0.67
RIPK2	receptor-interacting serine-threonine kinase 2	0.84	0.52
XIAP	X-linked inhibitor of apoptosis	-0.53	-0.31
LTBR	lymphotoxin beta receptor (TNFR superfamily, member 3)	-0.52	-0.86
TNFSF10	tumor necrosis factor (ligand) superfamily, member 10	0.83	-1.21
HDAC1	histone deacetylase 1	0.26	1.86
MAPK1	mitogen-activated protein kinase 1	0.17	0.29
BCL2L11	BCL2-like 11 (apoptosis facilitator)	0.67	1.08
CASP3	caspase 3, apoptosis-related cysteine peptidase	-0.74	0.68
AKT1	v-akt murine thymoma viral oncogene homolog 1	-0.74	-1.30
IGF1R	insulin-like growth factor 1 receptor	0.44	-0.33
BID	BH3 interacting domain death agonist	-0.74	-0.70
MCL1	myeloid cell leukemia sequence 1 (BCL2-related)	0.44	0.39
BAG1	BCL2-associated athanogene	-0.70	-0.66



Supplementary Table S2. Effect of entinostat on the expression of apoptosis-related gene pathways.

The expression profile of apoptosis-related genes for SUM149PT and SUM190PT cell lines after entinostat treatment for 48 hours. Results are represented as the fold-change of the log₂ values of entinostat treated cells in comparison to the values observed in non-treated cells. GENE-E software (The Broad Institute, Cambridge, MA) was utilized for heat map visualization of gene expression data.