

Supplementary Material

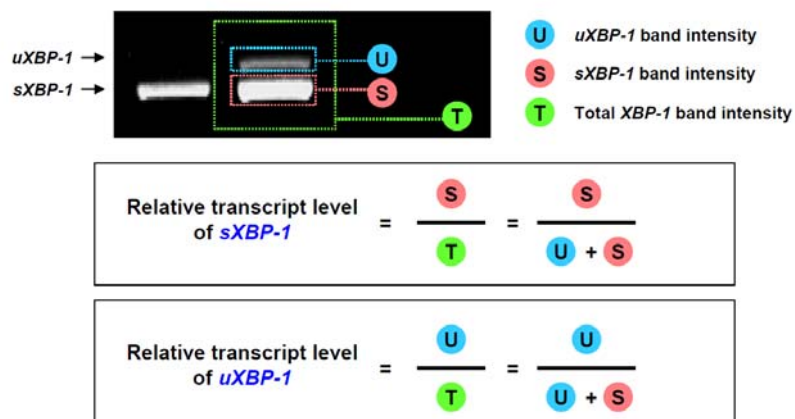
Fig. S1. Song *et al.*

Fig. S1. Measurement of ER stress level. To measure the transcript level of *sXBP-1*, an indicator of the ER stress level, RT-PCR band intensities were densitometrically analyzed, and relative levels of *sXBP1* or *uXBP-1* against total *XBP-1* level were calculated.

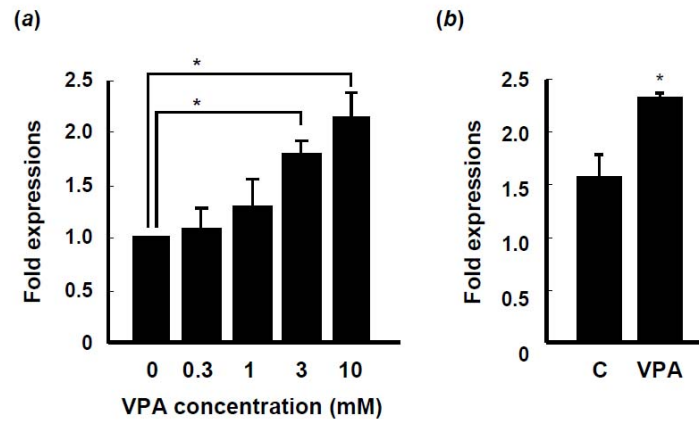


Fig. S2. Song *et al.*

Fig. S2. Upregulation of *GRP78/BiP* transcript level by VPA in bESFs and SCNT embryos. (a) bESFs were treated with the indicated doses of VPA for 24 h and subjected to qPCR analysis of *GRP78/BiP*. (b) SCNT embryos were incubated in the presence or absence of 3 mM VPA for 24 h, cultured to eight-cell stage, and subjected to qPCR analysis of *GRP78/BiP*. Data represent the mean \pm s.e.m. of three independent experiments ($*P < 0.05$).

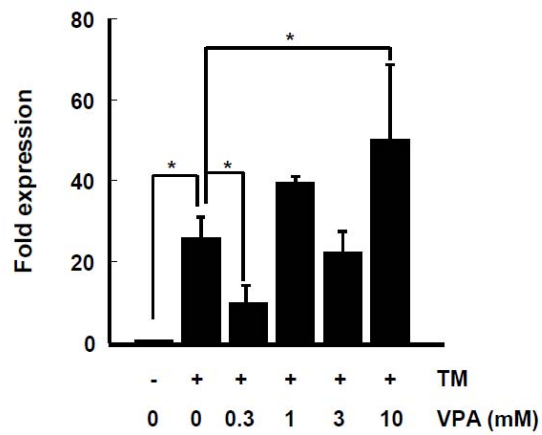


Fig. S3. Song *et al.*

Fig. S3. Effect of VPA dose on *CHOP* transcript level under ER stress condition in bESFs. bESFs were pretreated with $2 \mu\text{g mL}^{-1}$ of tunicamycin (TM) and subsequently treated with the indicated doses of VPA for 24 h. Semi-qPCR analysis of *CHOP* was performed, and band intensities were quantitated by densitometry. Data represent the mean \pm s.e.m. of three independent experiments ($*P < 0.05$).

Table S1. Primer sequences used for RT-PCR

Gene	Primer sequences	GenBank accession no.	Product size (bp)
<i>XBP1</i>	F: 5'-AGA CCA AGG GGA ATG GAG CG-3' R: 5'-GGG GAG GCC GGT AAG GAA CT-3'	NM_001034727	288
<i>CHOP</i>	F: 5'-GTC ACT GCC TTT CTC CTT CG-3' R: 5'-GGG AGG TGT GTG TGA CCT CT-3'	NM_001078163	218
<i>BI-1</i>	F: 5'-CCT GCT CTT CTA TCG AGG AC-3' R: 5'-TTG GAG AGA AAG GAT GCT GT-3'	NM_001014914	110
<i>GRP78/Bip</i>	F: 5'-GCT ATT GCT TAT GGC CTG GA-3' R: 5'-CGC TGG TCA AAG TCT TCT CC-3'	XM_001075148	168
<i>Bax</i>	F: 5'-TTT GCT TCA GGG TTT CAT CC-3' R: 5'-CAG TTG AAG TTG CCG TCA GA-3'	U92569	246
<i>Bcl-xL</i>	F: 5'-CTT GGA TGG CCA CTT ACC TG-3' R: 5'-AAGAGTGAGCCCAGCAGAAC-3'	AF245489	541
<i>H2a</i>	F: 5'-GGT AAG GCT GGG AAG GAC TC-3' R: 5'-CGG TGA GGT ACT CCA GGA TG-3'	NM_174809	181