

Figure S1 The primer standard curve of all the primers. All experiments were repeated at least three times.

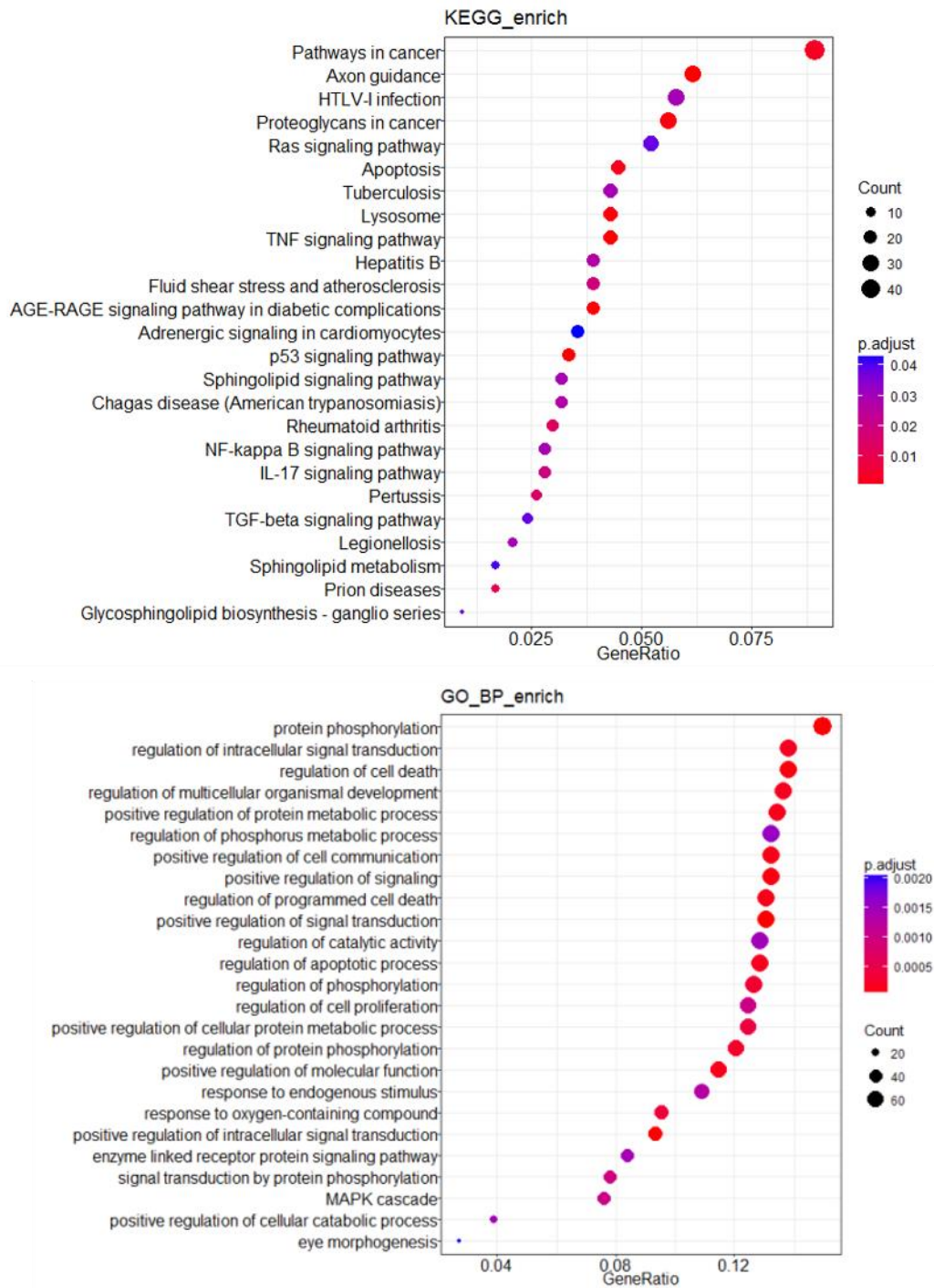


Figure S2 Granulosa cell gene expression profiling after ZEA treatment. Scattergram of Kyoto Encyclopedia of Genes and Genomes (KEGG) and GO enrich in biological process categories.

Table S1. The information of the primers

Genes	GenBank Accession	Primer Sequence (5'-3')	Product Length (bp)
ATM	NM_001123080.1	F:CCGGTGTTTTGGGAGAGTGT R:CTCCGACCAAACCTCAGCGT	123
ATR	XM_021069571.1	F:TGAGCTCCAGTGTGGCATC R:GCCAGTTCTCAGTGTGGTCA	128
RAD51	NM_001123181.1	F:CTTCGGTGGAAGAGGAGAGC R:CGGTGTGGAATCCAGCTTCT	108
BRCA1	XM_003358030.4	F:TGCTAAATCCGGAACAAAACACA R:CTGGTGGAACGATCCAGAGAT	130
MRE11A	XM_003129788.5	F:GGAGGATGTTGTCTGGCTG R:AGACGTTCCCGTTCTGCATT	129
CRXX6	NM_001190185.1	F:ACGGAAGGTGCCCTTACTG R:TGCAGCACTGGGTTCTCAAA	123
PRKDC	XM_021089422.1	F:ATTCTTTGTCTGGGAGCAGCA R:CCTAGCTGTGTGGCACATGA	95
53BP1	XM_021096957.1	F:GGGAAAGGGGAGTTCGTG R:CTCACGCTCGTGCTAGAGAT	108
GAPDH	NM_001206359.1	F:GCCA TCACCA TCTTCCAGG R:TCACGCCCATCACAAACAT	190
CHEK1	XM_005667481.3	F:TGCCCTTTGTGGAAGACTGG R:ACTGCAACTGCTTCCTCAGT	103
CHEK2	NM_001137638.1	F:GCCTGTGGTGAGGTGAAACT R:TGCTGGATCTGCCTCTCTCT	114

Table S2. The information of the primary antibodies

Antigen	Source	Species (raised in)	Dilution used
RAD51	Abcam	Rabbit	1:200
BRCA1	Abcam	Rabbit	1:200
γ -H2AX	Broworld	Rabbit	1:200
XRCC4	Sangon Biotech	Rabbit	1:100
USP1	Sangon Biotech	Rabbit	1:100
CCND1	Sangon Biotech	Rabbit	1:100
53BP1	Sangon Biotech	Rabbit	1:100