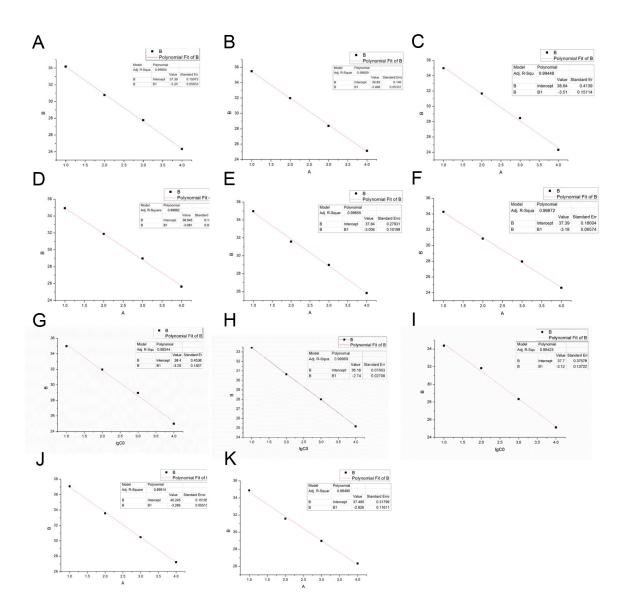
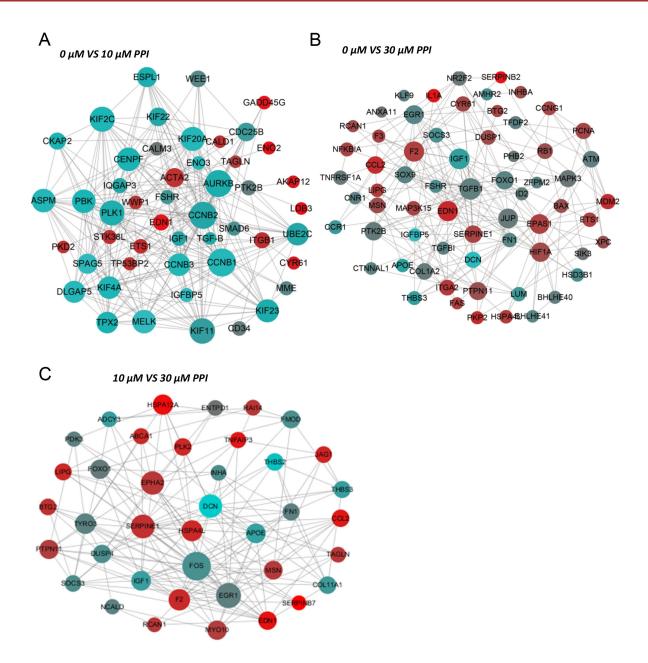
RNA-seq based gene expression analysis of ovarian granulosa cells exposed to zearalenone *in vitro*: significance to steroidogenesis

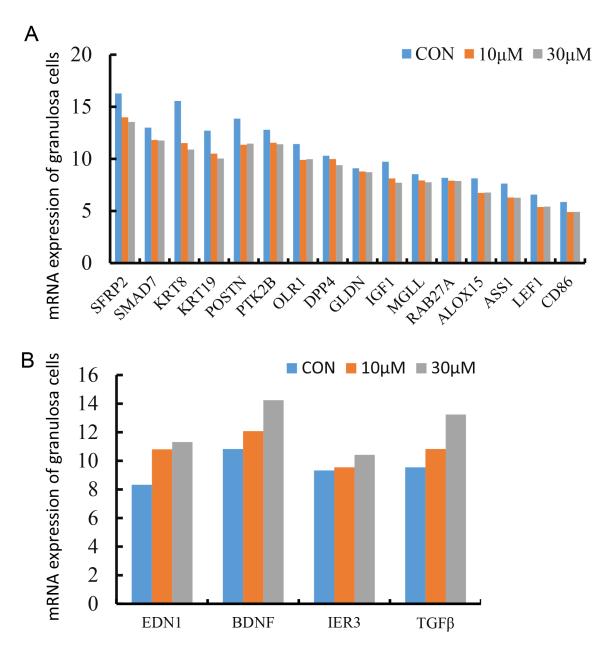
SUPPLEMENTARY MATERIALS



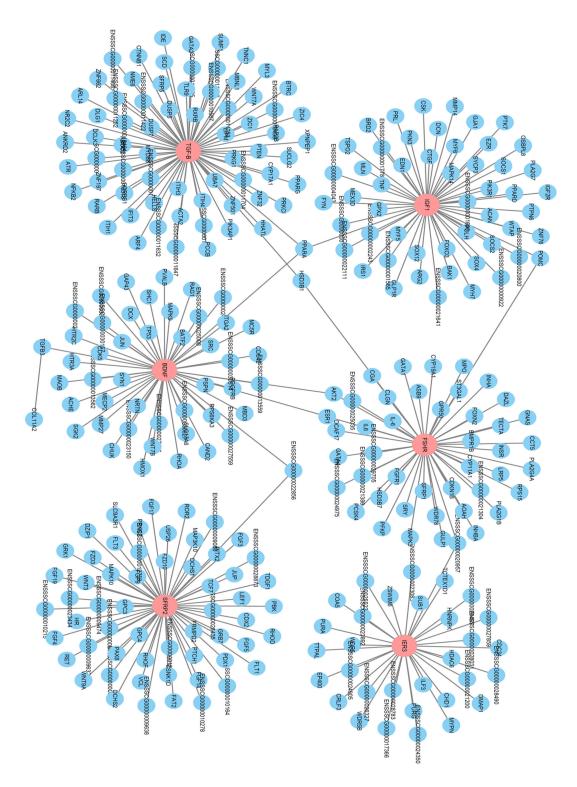
Supplementary Figure 1: The standard curve and primer efficiency of all the Q-PCR primers. (A-K) represent the standard curve and primer efficiency of *TGF-β, BDNF, IER-3, EDN-1, IGF-1, SFRP-2, CYP19A1, FSHR, HSD17β, Bax and Bcl-2* genes.



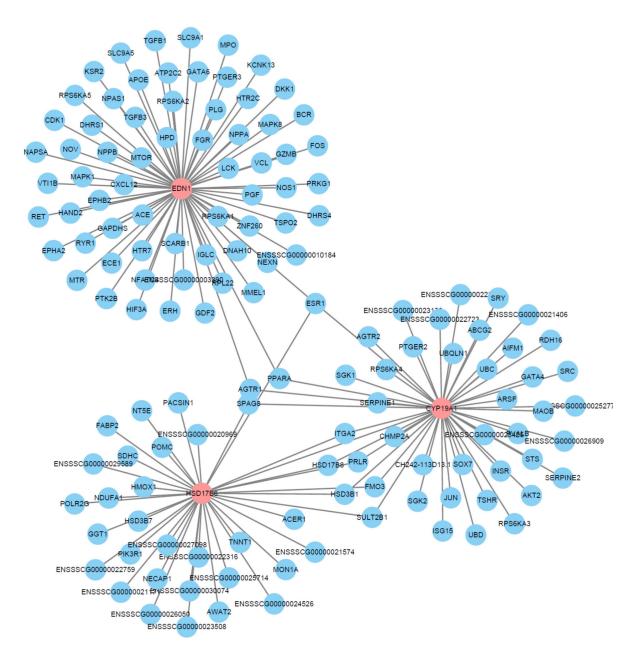
Supplementary Figure 2: Protein-protein interaction (PPI) network based on the Search Tool for the Retrieval of Interacting Genes (STRING) database to annotate functional interactions between different expression genes in ZEA-treatment and control groups. The 120 genes in 10 μ M and 30 μ M ZEA treatment group and node degree \geq 20 was selected as the threshold. Red points represent genes up-regulated and blue points represent genes down-regulated in every two groups.



Supplementary Figure 3: (A) Part of declined expression genes between control and ZEA-treatment groups. (B) The increased expression genes in ZEA-treatment groups. Node degree ≥ 20 was selected as the threshold.



Supplementary Figure 4: PPI network based on the STRING database to annotate functional interactions between apoptosis-related genes in ZEA-treatment groups. We obtained 6 core differentially expression genes between control and ZEA-treated groups. Node degree \geq 20 was selected as the threshold.



Supplementary Figure 5: PPI network based on the STRING database to annotate functional interactions between steroidogenesis-related genes in ZEA-treatment groups. We obtained 3 core differentially expression genes between control and ZEA-treated groups. Node degree \geq 20 was selected as the threshold.

Supplementary Table 1: Primers used for quantitative-PCR

Genes	Sequences of primers	Production(bp)	Genbank
CYP19A1	F:5'- GATGCTGCATTGTCACTGCT -3'	238	KF_314685
	R:5'-GGGAAGGTGTCACTCAAGGA-3'		
FSHR	F:5'- CGCTGGAAAGATGGCATACC-3'	155	GU_990798
	R:5'- GCTCACCTTCATGTAGCTGC -3'		
HSD17β	F:5'- TGATGGACTTCACCTGTGCT -3'	207	NM_001185137
	R:5'- GGCATGATCCCAGCATTCAG -3'		
TGF-β	F:5'-AGGAAACCCATAATGCCCCA-3'	208	NM_214015.2
	R:5'- TGGGCCCTATGGATAGCTG-3'		
EDN-1	F:5'- CTCCTTTGCGGTGATGATGG-3'	174	NM_213882.1
	R:5'- GGTGTGGACTTGGGTGTTTC-3'		
IGF-1	F:5'- TCCTGGAGTTGGTAGATTGCT-3'	224	NM_214256.1
	R:5'- ACGAATGTCTCTAGCAGCCA-3'		
SFRP-2	F:5'- GGCCTCAGGAATGGATAGCT-3'	165	NM_001244395.1
	R:5'- CCCCAAACATCACACCCAAG-3'		
IER-3	F:5'- AGATCGAAGGCCAAGGACAA-3'	154	XM_001927551.3
	R:5'- AGGGATGGAGAAAACTCGGG-3'		
BDNF	F:5'-CCTGGATGCTGCAAACATGT-3'	226	NM_214259.2
	R:5'-CCCTCCTTTGTGTACCCCAT-3'		
Bax	F:5'-ATGCGTCCAAGGAAGACTGAG-3'	198	XM_003127290.4
	R:5'-CCCCAGTTGAAGTTGCCATCAG-3'		
Bcl-2	F:5'-GCAGAGATGTCCAGTCAG-3'	166	XM_003121700.4
	R:5'-CACCGAACTCAAAGAAGG-3'		
GAPDH	F:5'-CCCCTTCATTGACCTCCACT-3'	157	NM_001206359.1
	R:5'-CCATTTGATGTTGGCGGGAT-3'		