

Figure S1. Transcriptome analyses of HeLa cells treated with TG and GD, related to Figure 1.

(A) RT-PCR gels of *XBPI* and *FST* mRNAs in HeLa cells treated with TG and GD, respectively. *XBPIs* and *FST* mRNAs used as the positive controls are known to be upregulated upon TG and GD treatments, respectively. The *ACTB* mRNA is used as the loading control. TG, thapsigargin; GD, glucose deprivation; Ctrl, control; *XBPIs*, spliced *XBPI*; *XBPIu*, unspliced *XBPI*.

(B) Schematic workflow for RNA-seq and bioinformatic analyses. CIRI2 and find_circ were applied to identify high-confidence BSJs for circRNAs. BSJ, back-splicing junction.

(C) PCA plots of the RNA-seq dataset demonstrating the similarities/differences among TG, GD and Ctrl groups with four replicates. Percentages represented variance captured by each principal component 1 and 2 in each analysis. The BSJ reads of circRNAs and linear RNA reads were counted for PCA analysis. PCA, principal component analysis.

(D) General description of RNA-seq data.

Figure S2. The co-expression network of lncRNA/circRNA/mRNA, related to Figure 3.

(A) The heatmap showing the expression levels of 131 mRNAs present in the lncRNA/circRNA-mRNA co-expression network in TG- or GD-treated HeLa cells. Red boxes represent upregulated mRNAs and blue boxes represent downregulated mRNAs.

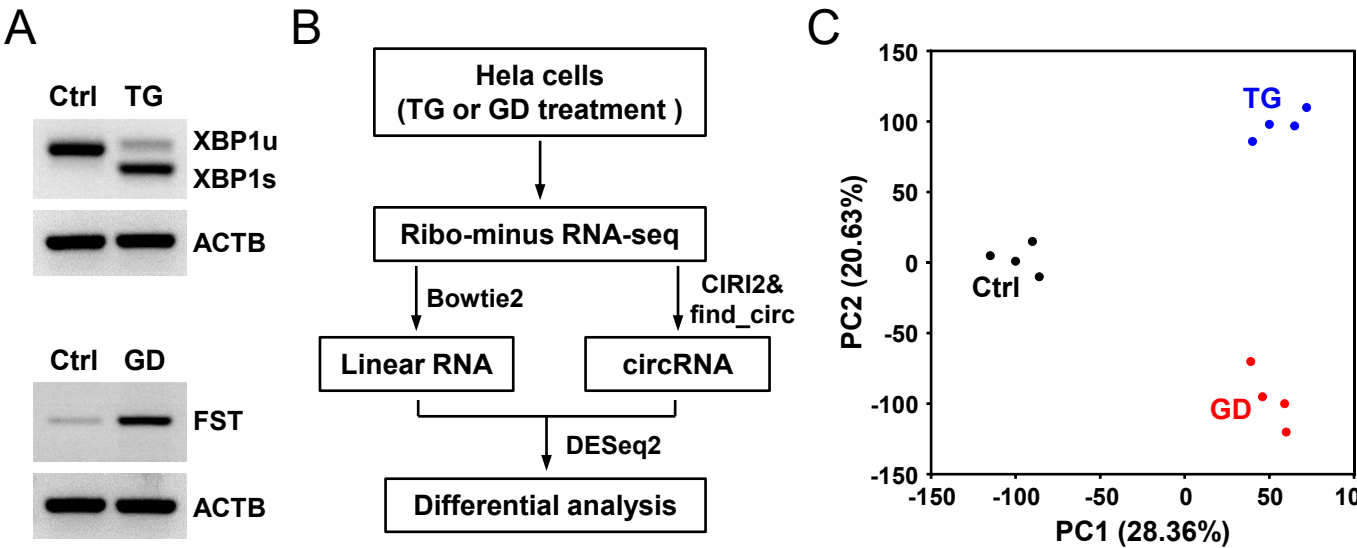
(B) GO analysis revealing biological processes of 131 mRNAs present in the above network.

Figure S3. The RNA-RBP interactome map, related to Figure 5.

(A) The heatmap demonstrating the mRNA levels of 77 RBPs present in the RNA-RBP interactome network in TG- or GD-treated HeLa cells. Red boxes represent upregulated mRNAs and blue boxes represent downregulated mRNAs.

(B) GO analysis revealing biological processes of 77 mRNAs present in the above network.

Fig. S1



D

Sample	Ctrl1	Ctrl2	Ctrl3	Ctrl4	TG1	TG2	TG3	TG4	GD1	GD2	GD3	GD4
Data size (G)	16.09	14.82	12.51	9.46	14.81	14.93	7.89	13.14	15.29	15.63	5.03	5.59
Depth	3.6X	3.3X	2.8X	2.1X	3.2X	3.2X	1.8X	2.9X	3.3X	3.4X	1.1X	1.2X
BSJ reads (‰)	1.15	1.22	0.98	0.99	1.19	1.16	0.82	0.81	1.41	1.19	0.84	0.87

Fig. S2

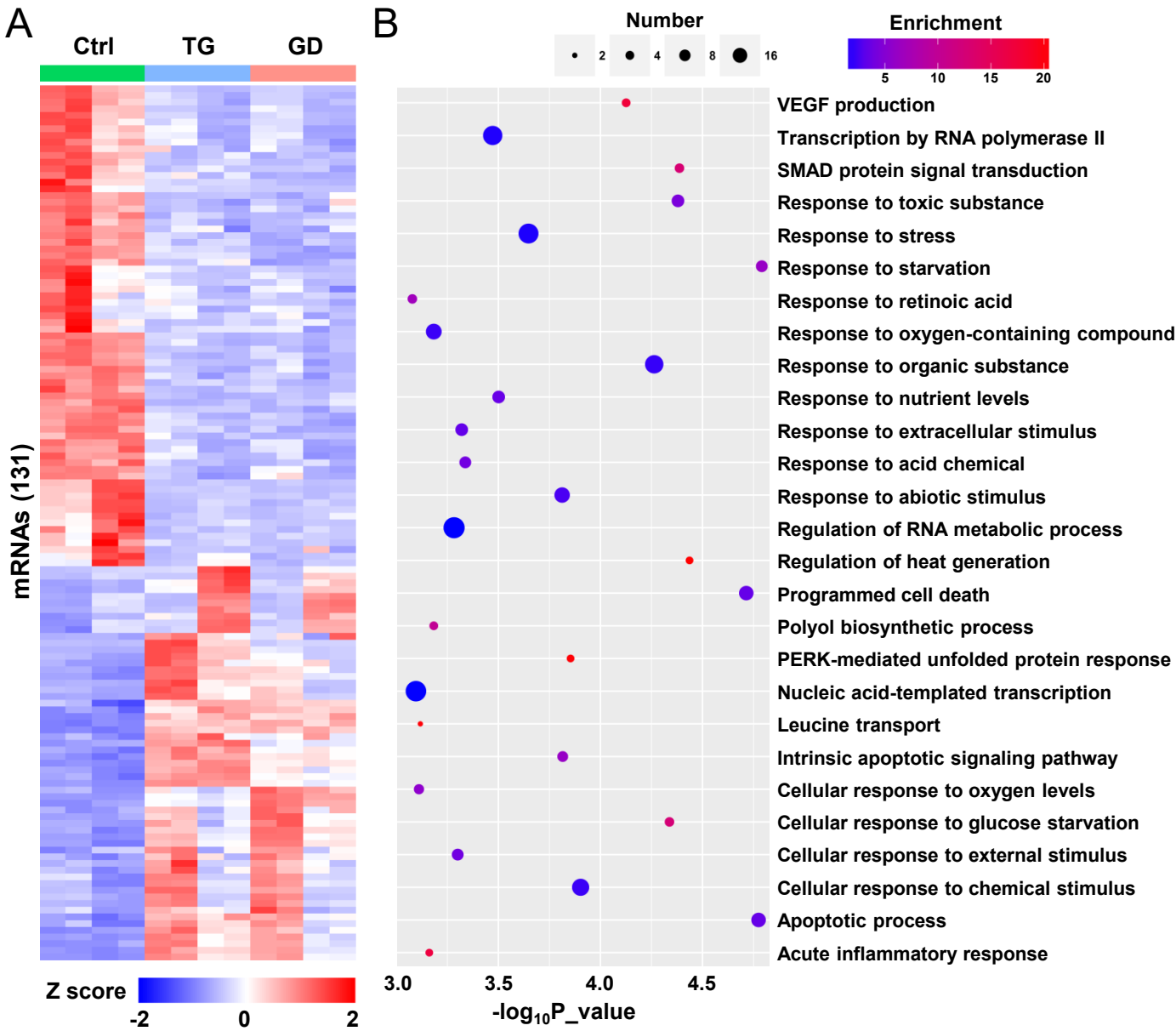


Fig. S3

