

Supplementary Table S13 Lists of mRNAs, TFs, miRNAs, and their targets used to construct deregulated loops and rank their statistical significance.

	L_{mRNA}	L_{miRNA}	
MHT	<ul style="list-style-type: none"> mRNAs MHT FDR values direction of deregulation 	<ul style="list-style-type: none"> miRNAs MHT FDR values direction of deregulation 	
GSEA	$L_{\text{TF}}^{\text{GS}}$ <ul style="list-style-type: none"> TFs from mSigDB in L_{mRNA} MHT FDR values > 0.05 GSEA FDR values ≤ 0.25 direction of deregulation 	$L_{\text{miRNA}}^{\text{GS}}$ <ul style="list-style-type: none"> miRNAs from miRTarBase in $L_{\text{miRNA}}^{\text{DeepSeq}}$ MHT FDR values > 0.05 GSEA FDR values ≤ 0.25 direction of deregulation 	$L_{\text{KEGG}}^{\text{GS}}$ <ul style="list-style-type: none"> KEGG pathways from mSigDB GSEA FDR values ≤ 0.25
	$L_{\text{mRNA}}^{\text{DiffExp}}$	$L_{\text{miRNA}}^{\text{DiffExp}}$	
TARGET IDENTIFICATION	<ul style="list-style-type: none"> mRNAs MHT FDR values ≤ 0.05 MHT FDR values > 0.05 & GSEA FDR values ≤ 0.25 direction of deregulation 	<ul style="list-style-type: none"> miRNAs MHT FDR values ≤ 0.05 MHT FDR values > 0.05 & GSEA FDR values ≤ 0.25 direction of deregulation 	
	$L_{\text{TF}}^{\text{mRNA}}$	$L_{\text{TF}}^{\text{miRNA}}$	
	<ul style="list-style-type: none"> TFs in $L_{\text{mRNA}}^{\text{DiffExp}}$ mRNA targets from TRANSFAC in L_{mRNA} regulation type 	<ul style="list-style-type: none"> TFs in $L_{\text{mRNA}}^{\text{DiffExp}}$ transcriptional miRNA targets from TransmiR in $L_{\text{miRNA}}^{\text{DiffExp}}$ regulation type 	<ul style="list-style-type: none"> miRNAs in $L_{\text{miRNA}}^{\text{DiffExp}}$ predicted mRNA targets in L_{mRNA} using miRecords, amended with targets from miRTarBase