

Supplementary Information for:

**Identification of differentially expressed
miRNAs in the fatty liver of Landes goose
(*Anser anser*)**

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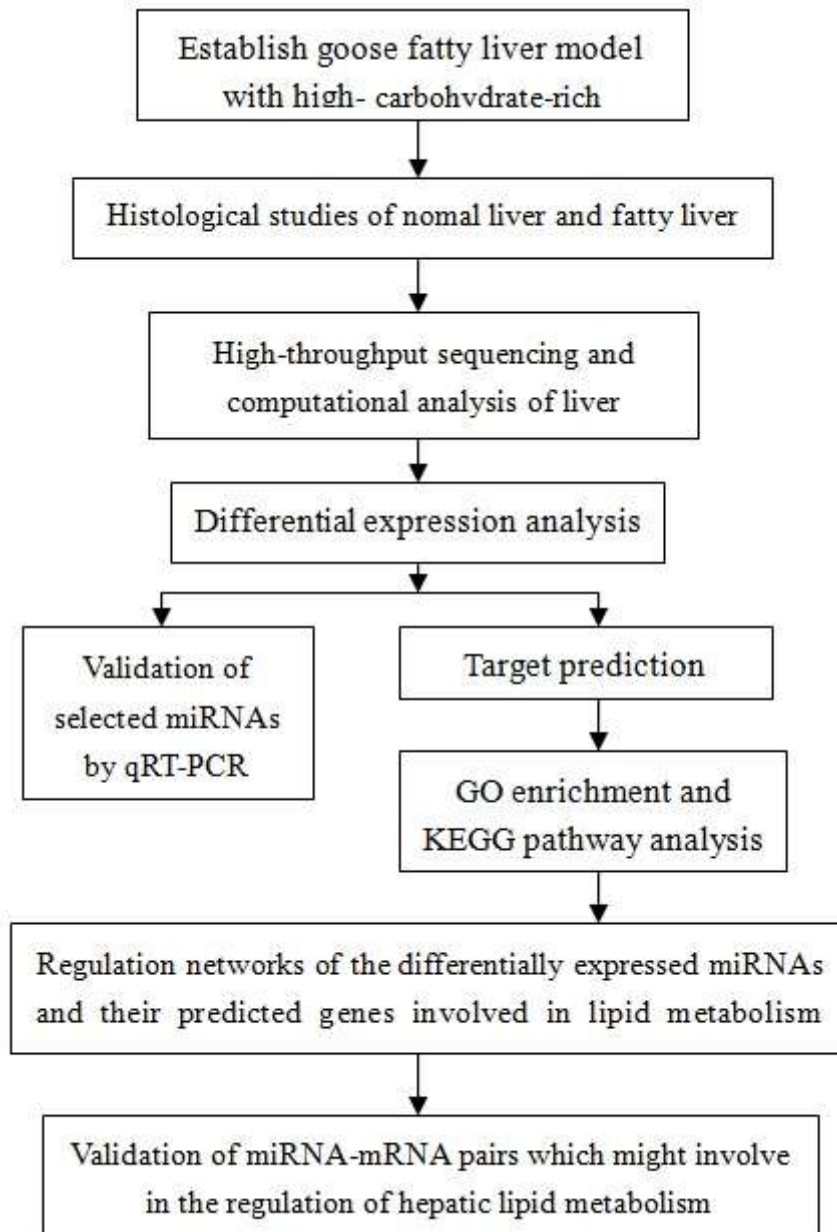
Supplementaey Table S1. Distribution of small RNA reads in the sequenced goose liver small RNA library.

category	Control		Overfed	
	total sRNA	percent (%)	total sRNA	percent (%)
exon_antisense	297	0.00%	338	0.00%
exon_sense	51131	0.49%	63172	0.56%
intron_antisense	2485	0.02%	2849	0.03%
intron_sense	18229	0.18%	19433	0.17%
miRNA	9244896	88.92%	9847086	86.98%
rRNA	532164	5.12%	642849	5.68%
repeat	699	0.01%	752	0.01%
scRNA	6536	0.06%	5388	0.05%
snRNA	3540	0.03%	3380	0.03%
snoRNA	5091	0.05%	3129	0.03%
tRNA	109978	1.06%	168996	1.49%
unann	421931	4.06%	563901	4.98%
total	10396977	100%	11321237	100%
genomic	8696250	83.64%	9573773	84.56%

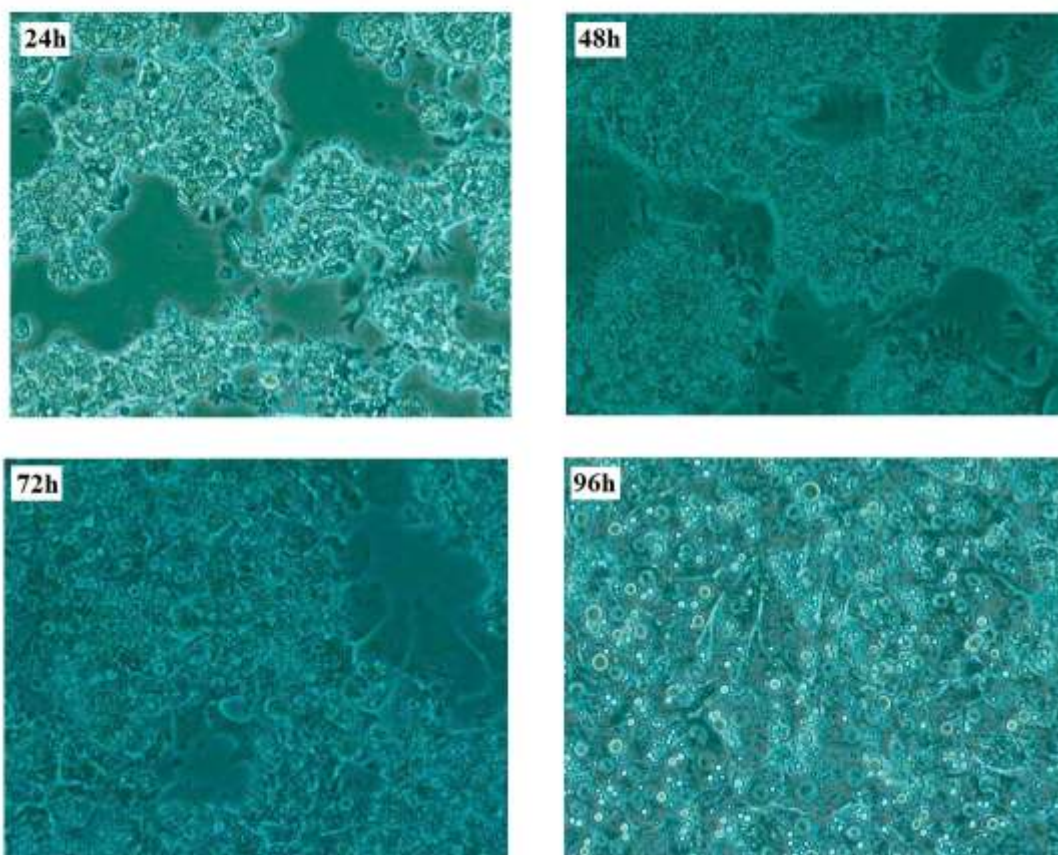
Supplementary Table S2. Detailed information of primers.

miR name	Primer Sequence
miR-122-5p-PF	CTGGTAGGTGGAGTGTGACAATGGT
miR-122-5p-LOOP	CTCAACTGGTGTCTCGTGGAGTCGGCAATTCAGTTGAGACAAACAC
miR-222a-PF	CTGGTAGGAGCTACATCTGGCTACT
miR-222a-LOOP	CTCAACTGGTGTCTCGTGGAGTCGGCAATTCAGTTGAGGAGACCCA
miR-30d-PF	CTGGTAGGTGTAAACATCCCCGACT
miR-30d- LOOP	CTCAACTGGTGTCTCGTGGAGTCGGCAATTCAGTTGAGCTTCCAGT
miR-125b-5p-PF	CTGGTAGGTCCCTGAGACCCTAACT
miR-125b-5p- LOOP	CTCAACTGGTGTCTCGTGGAGTCGGCAATTCAGTTGAGTCACAAGT
miR-146a-5p-PF	CTGGTAGGTGAGAACTGAATTCCAT
miR-146a-5p- LOOP	CTCAACTGGTGTCTCGTGGAGTCGGCAATTCAGTTGAGAACCCATG
miR-203a-PF	CTGGTAGGGTGAAATGTTTAGGACC
miR-203a- LOOP	CTCAACTGGTGTCTCGTGGAGTCGGCAATTCAGTTGAGCAAGTGGT
Universal PR	TCAACTGGTGTCTCGTGGAGTCGGC
U6 PF	TGGAACGATACAGAGAAGATTAGC
U6 PR	AACGCTTCACGAATTTGCGT
ACSL1-PF	AGCCAACTGTATTCCTGT
ACSL1-PR	CATCAGCCTTACTCTTCCT
Elovl6-PF	CGTCTTCAGAATACTTGGTG
Elovl6-PR	GTTCCGGGTGCTTTGCTTAG
β -actin-PF	GCTTCTCCTTGATGTCACGG
β -actin-PR	CCATCTATGAGGGCTACGCT

Note: PF was upstream primer. PR was downstream primer.



Supplementary Figure S1. The workflow of study



Supplementary Figure S2. Primary hepatocyte of goose (100×). Hepatocytes were isolated for Landes (age of 1-2 week) following the method of Seglen (1976)