

## Supplementary File

**Table S1.** The primer sequences used for RT-qPCR

Genes	Primers	Sequences (5'-3')
LOX	F	GACACGTTGCACAGGGAGAG
	R	GTTCGGCCCAGATTAAGTCG
Cptp	F	GTGCCCTTTAGTCCTGTACCC
	R	CTAATCCAGTGAGGTCCGGG
Lpcat3	F	CTACAGGCAGGCTAGAACCAG
	R	GAACCTACAGTGTCCCCCTTG
Fabp4	F	GCCCACTCCTACAGGGAGAA
	R	TGTAGTTAGCAGACAGGCACAG
$\beta$ actin	F	CATCCGTAAAGACCTCTATGCCAAC
	R	ATGGAGCCACCGATCCACA
Irs1	F	CCGGATACCGATGGCTTCTC
	R	CCGCCACTTCTTCTCGTTCT
Cd36	F	ATGGGCTGTGATCGGAACTG
	R	GTCTTCCCAATAAGCATGTCTCC

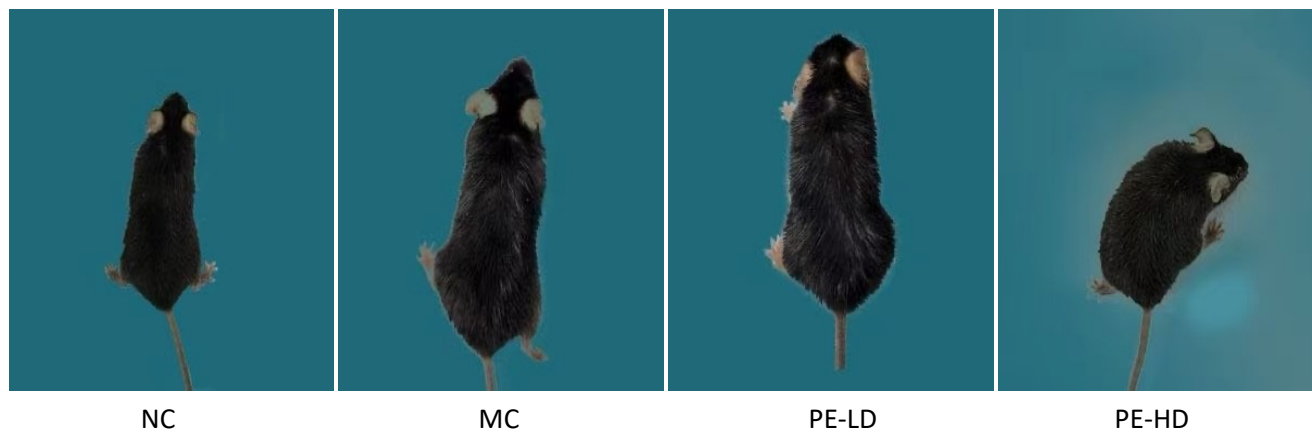


Figure S1. Physical appearance of mice before the sample collection.

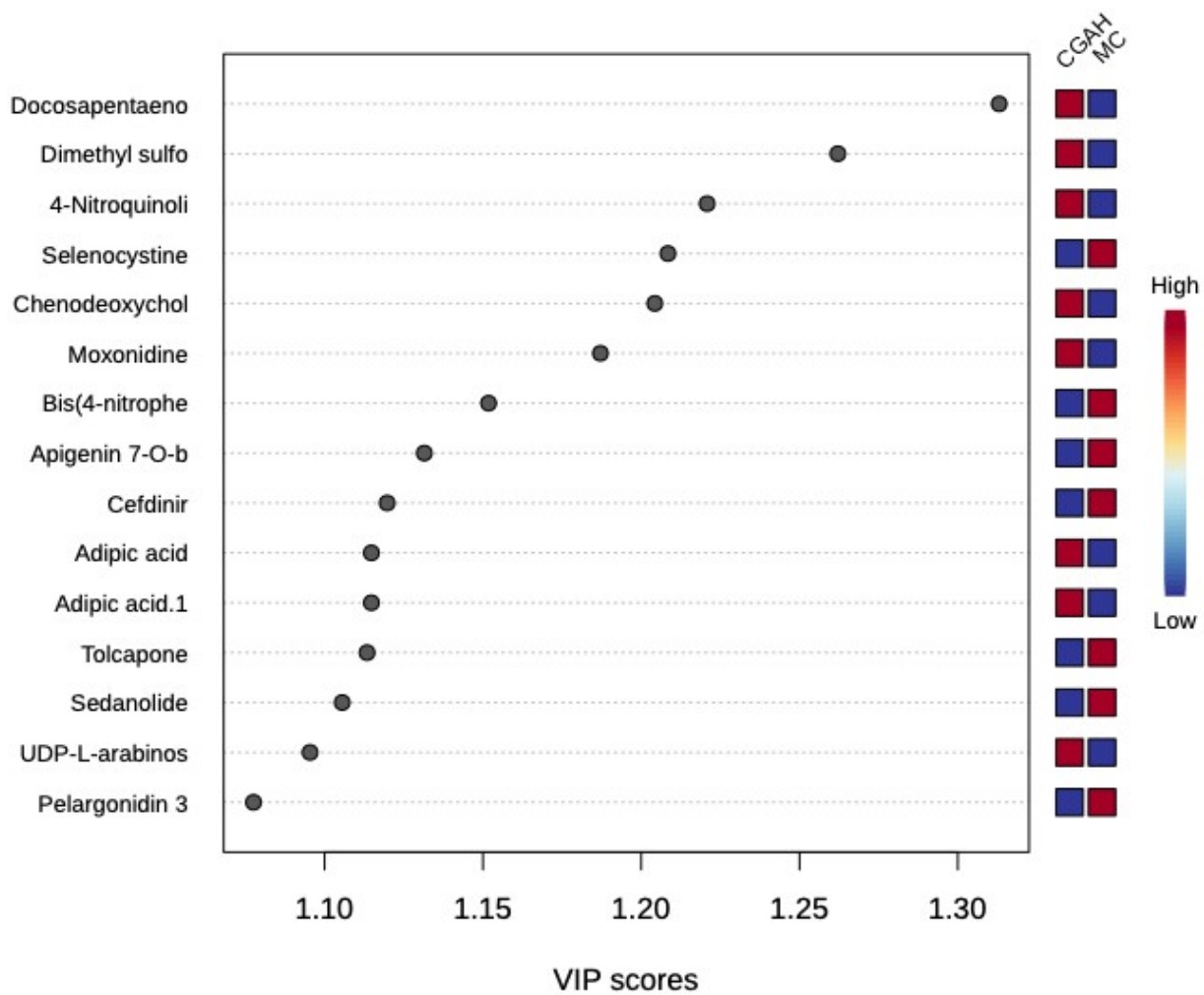


Figure S2. VIP value of key biomarkers of non-targeted metabolites in gut.

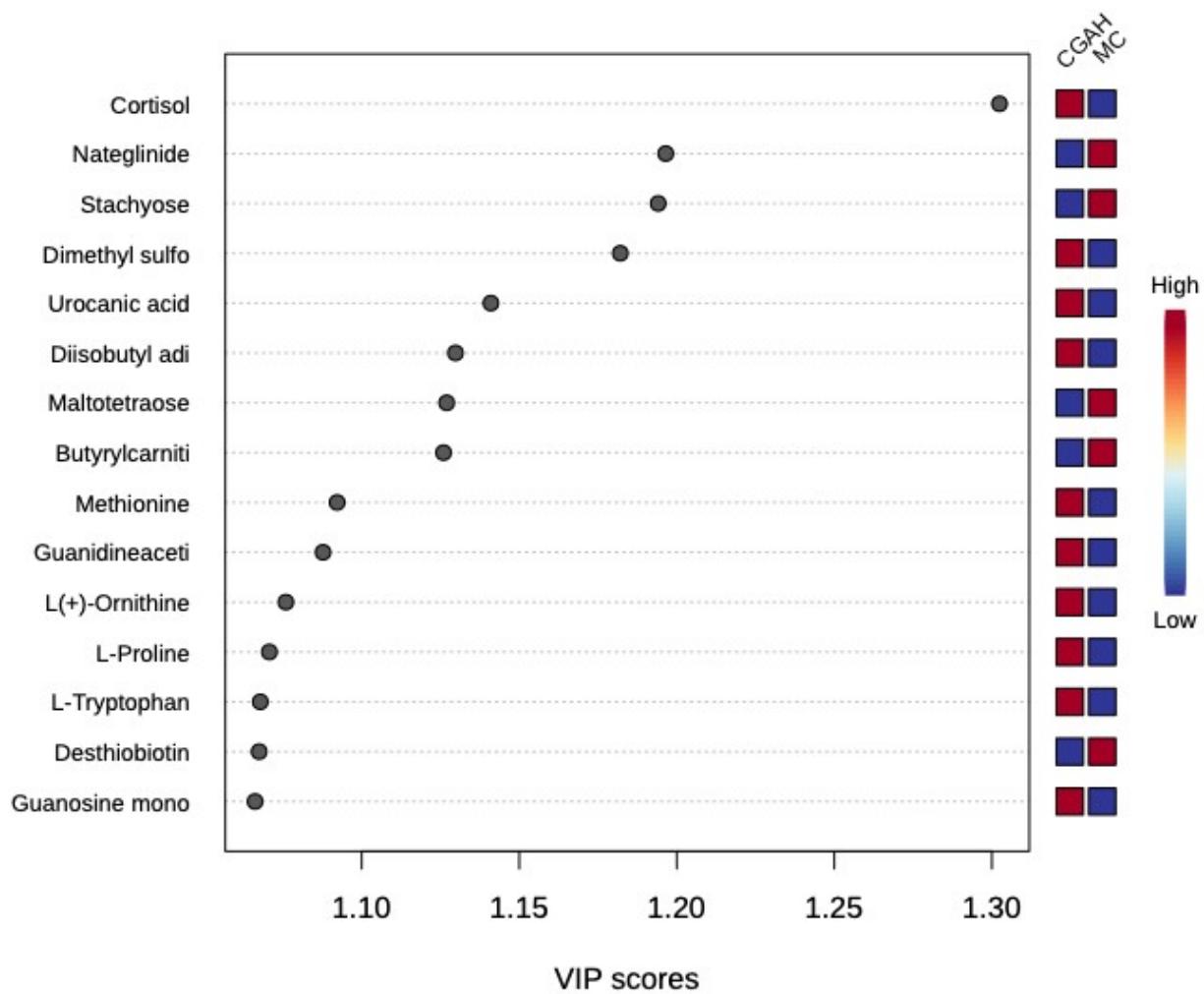


Figure S3. VIP value of key biomarkers of non-targeted metabolites in liver.