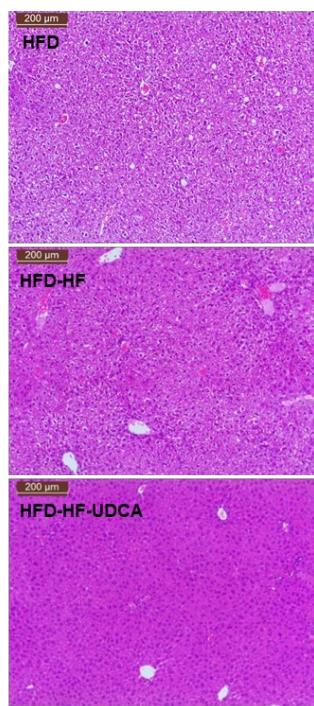
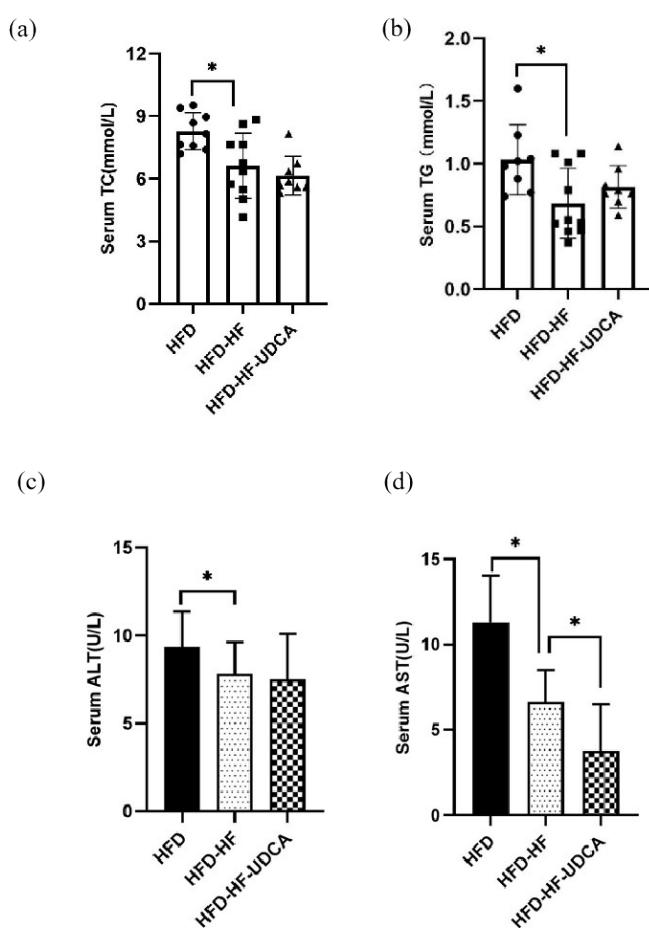


Supplementary Table 1. Primers for RT-qPCR

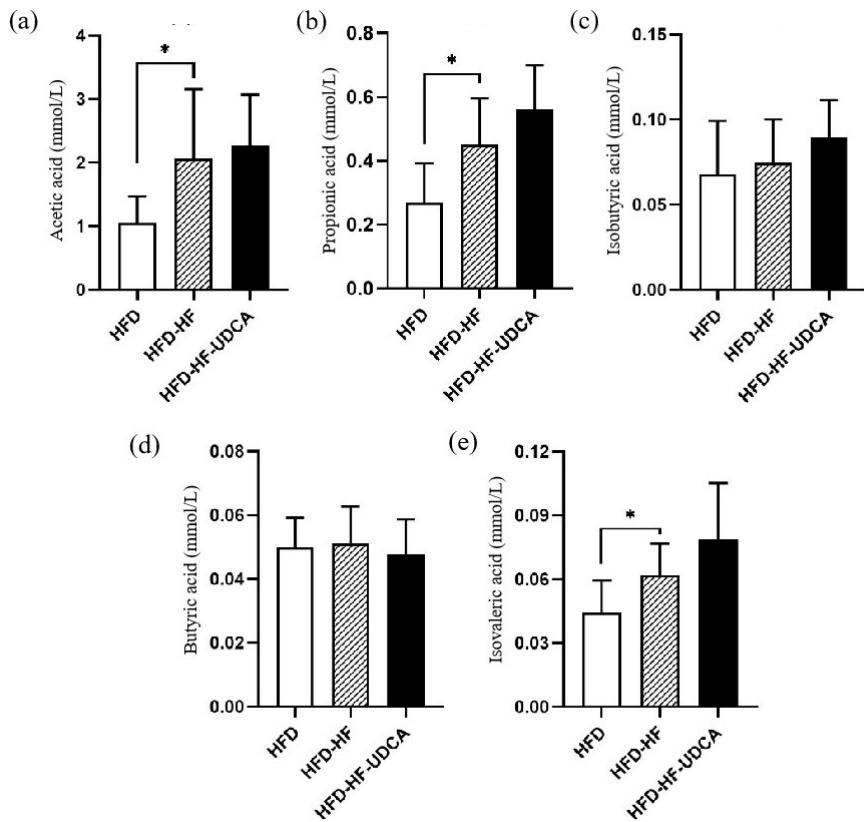
Gene	Primer Sequences
β-actin	(F):5'-AGCCATGTACGTAGCCATCCA-3' (R):5'-TCTCCGGAGTCATCACAAATG-3'
fxr	(F):5'-TGGGCTCCGAATCCTCTTAGA-3' (R):5'-TGGTCCTCAAATAAGATCCTTGG-3'
cyp7a1	(F):5'-AACAACCTGCCAGTACTAGATAGC-3' (R):5'-GTGTAGAGTGAAGTCCTCCTTAGC-3'
fgf15	(F):5'-GCCATCAAGGACGTCAGCA-3' (R): 5'-CTTCCTCCGAGTAGCGAATCAG-3'
bsep	(F):5'-CTGCCAAGGATGCTAATGCA-3' (R):5'-CGATGGCTACCCTTGCTTCT-3'
fgfr4	(F):5'-GCATCTTCAGGGGACACCA-3' (R):5'-TTGTACCAAGTGACGACCACG-3'
shp	(F):5'-TCTGCAGGTCGTCGACTATT-3' (R):5'-AGGCAGTGGCTGTGAGATGC -3'
tnf-α	(F):5'-TTCTCATTCTGCTTGTGG-3' (R):5'-ACTTGGTGGTTGCTACG-3'
il-1β	(F):5'-CCAGCTCAAATCTCACAGCAG-3' (R):5'-CTTCTTGGTATTGCTTGGGATC-3'
il-6	(F):5'-CCACCAAGAACGATAGTCAA-3' (R):5'-TTTCCACGATTCCCAGA-3'



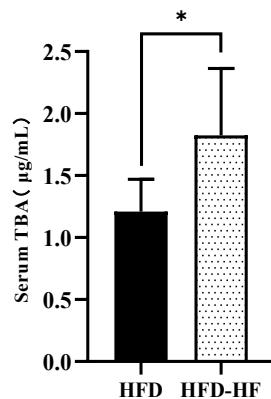
Supplementary Figure 1. Hematoxylin-eosin (HE) staining of liver tissue sections



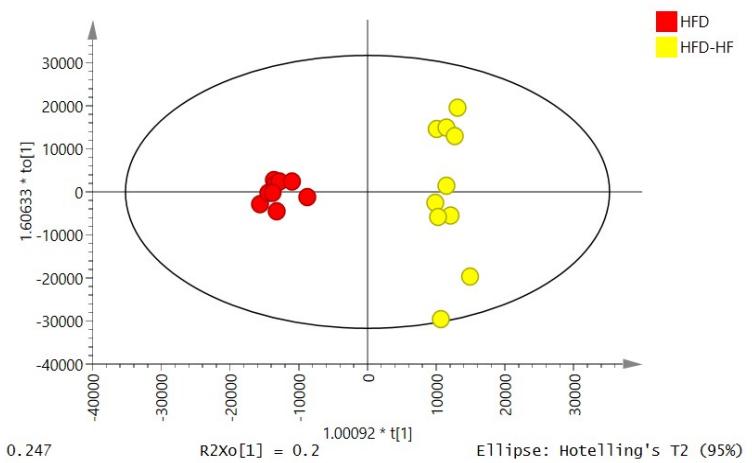
Supplementary Figure 2. The TC (a), TG (b), ALT (c), and AST (d) levels in the serum of mice in the HFD, HFD-HF and HFD-HF-UDCA groups



Supplementary Figure 3. The determination of fecal short chain fatty acids by gas chromatography. (a)Acetic acid; (b)Propionic acid; (c)Isobutyric; (d)Butyric acid; (e)Isovaleric acid



Supplementary Figure 4. Serum TBA levels



Supplementary Figure 5. The OPLS-DA score plot of mice faeces metabolomics data.