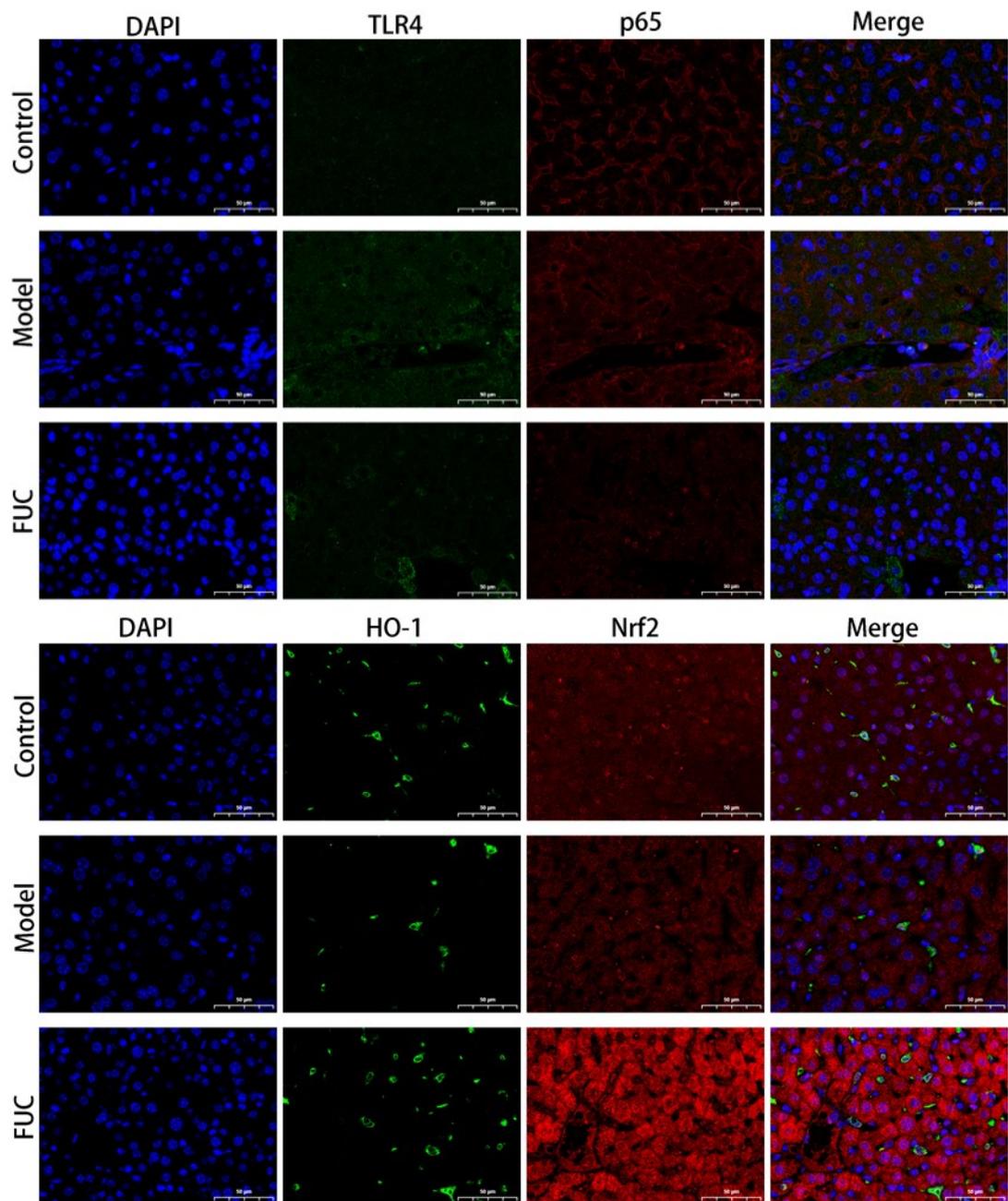


### Supplementary materials

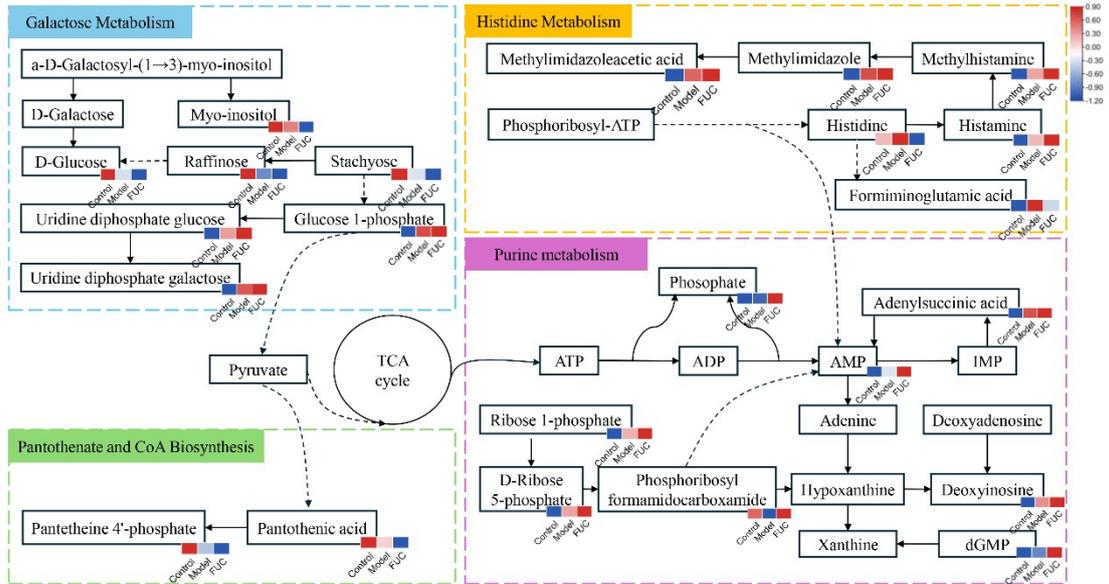
**Table S1** Primer pairs for real-time quantitative PCR analysis of indicated genes.

Gene	Forward sequence (5'-3')	Reverse sequence (3'-5')
TLR4	GGCAGCAGGTGGAATTGTAT	AGGCCCCAGAGTTTTGTTCT
MyD88	GTGCCGTCGGATGGTAGTG	GACAGTGATGAACCGCAGGAT
NF- $\kappa$ B	CGCCCCTTATCGACCACC	CCTTCTCCCAAGAGTCGTCCA
I $\kappa$ -B $\alpha$	ACCAACCAGCCAGAAATCG	TCACAGGCAAGGTGTAGAGGG
Cox2	GGGAGTCTGGAACATTGTGAA	GCACGTTGATTGTAGGTGGACT GT
iNOS	CTTGGAGCGAGTTGTGGATTGT C	TAGGTGAGGGCTTGGCTGAGTG
HO-1	ACATCCAAGCCGAGAATGCTG	CCAGTGAGGCCCATACCAGA
Nrf2	CCTCCGCTGCCATCAGTCAGT	TCGGCTGGGACTCGTGTTCA
$\beta$ -Actin	TGGAATCCTGTGGCATCCATG AAAC	TAAAACGCAGCTCAGTAACAGT CCG

**Fig. S1** Immunofluorescence results of TLR4, NF- $\kappa$ B, HO-1 and Nrf2 in liver tissue.



**Fig. S2** The key metabolic pathways schematic of control vs. model.



**Fig. S3** The key metabolic pathways schematic of FUC vs. model.

