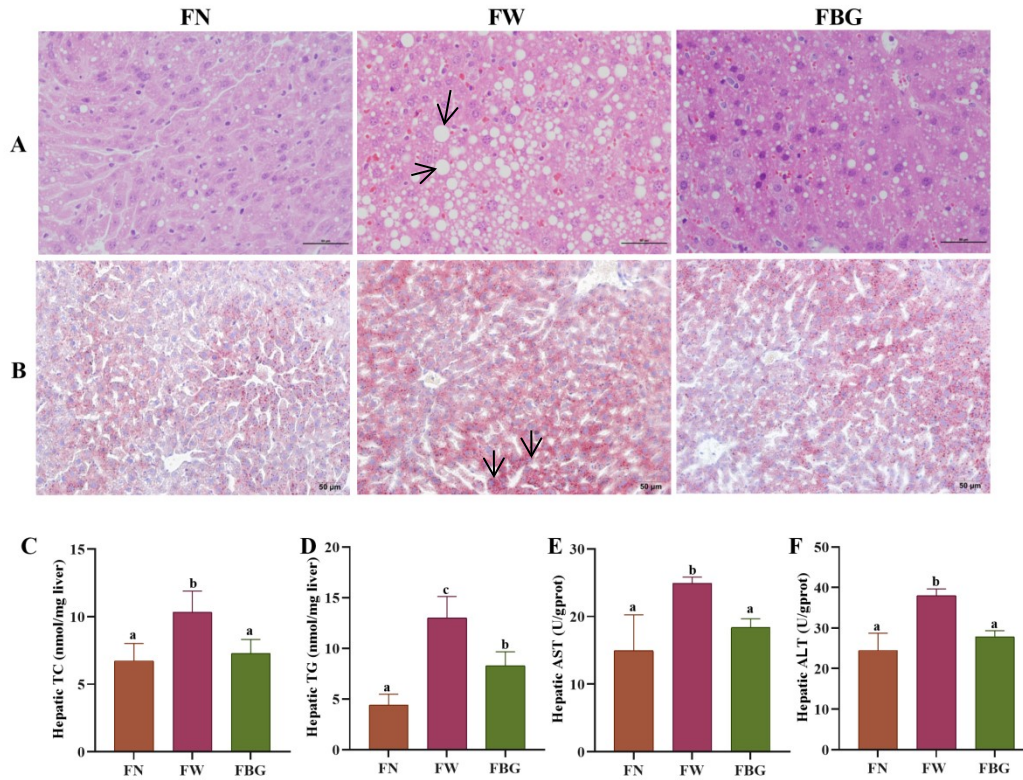


Supplementary Figure S1. The changes of body weight and the levels of serum lipid in mice of FN, FW and FBG group. (A) The final body weight; (B) The body weight gain; (C)The level of serum TC; (D) The level of serum TG



Supplementary Figure S2 Lipid accumulation in the liver of mice transplanted with fecal microbiota

(A) H&E staining of the liver (scale bar, 50  $\mu$ m); (B) The images of the Oil O red-stained in the liver (scale bar, 20  $\mu$ m); (C) The content of hepatic TC; (D) The content of hepatic TG; (E) The levels of ALT in the liver; (F) The levels of AST in the liver. Dark arrows denote white lipid droplets in image of H&E staining of the liver and dark arrows denote red lipid droplets in image of Oil O red-stained

Supplementary Table 1 Primer sequences used for semi-quantitative RT-PCR analysis

<b>Gene</b>	<b>Forward primer (5'→3')</b>	<b>Reverse primer (5'→3')</b>
<i>Ffar2</i>	ACAGTGGAGGGGACCAAGAT	GGGGACTCTCTACTCGGTGA
<i>Ffar3</i>	TTGCTAAACCTGACCATTTCGG	GATAGGCCACGCTCAGAAAAC
<i>β-actin</i>	GGACTGTTACTGAGCTGCGTT	CGCCTTCACCGTCCAGTT

Supplementation Table 2 Primary antibodies used in Western blotting.

<b>Primary antibodies</b>	<b>Brand and item number</b>	<b>Dilution</b>
FAS	Abways (AB3121)	1:1000
ACC	Abways (CY5575)	1:1000
HSL	WanleiBio	1:1000
SREBP-1c	WanleiBio	1:1000
AMPK	Cell Signaling Technology (D63G4)	1:1000
pAMPK	WanleiBio (WL05103)	1:1000
PPAR $\alpha$	WanleiBio (WL00978)	1:1000
GAPDH	Abways (AB0036)	1:5000