

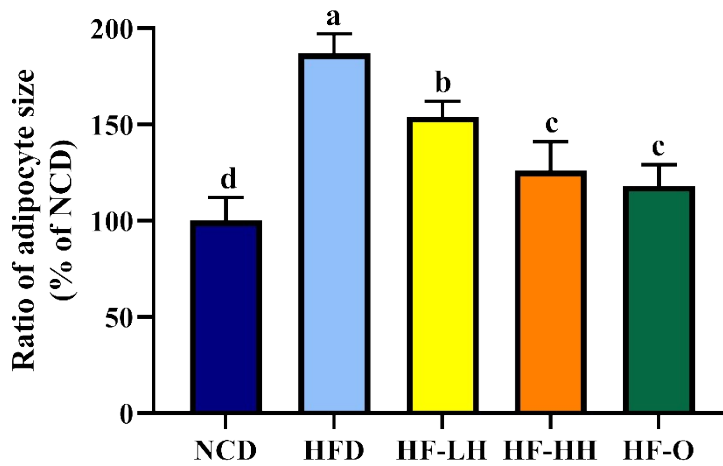
1 **Supplementary Information**

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3 **Table. S1** Ingredients and composition of NCD and HFD

Ingredient (g/kg)	NCD	HFD
Casein	200	200
Sucrose	50	50
Corn starch	639	477.5
Mineral mix	35	35
Vitamin mix	15	15
DL-Methionine	1	1
Cholesterol	0	1.5
Gelatin	20	20
Lard	40	200
Carbohydrate (g/kg)	578.15	440.88
Total energy from carbohydrate (%)	66.29%	40.34%
Protein (g/kg)	197.19	195.25
Total energy from protein (%)	22.61%	17.86%
Fat (g/kg)	43.02	203.02
Total energy from fat (%)	11.10%	41.80%
Total energy (kJ/kg)	14596.02	18291.11

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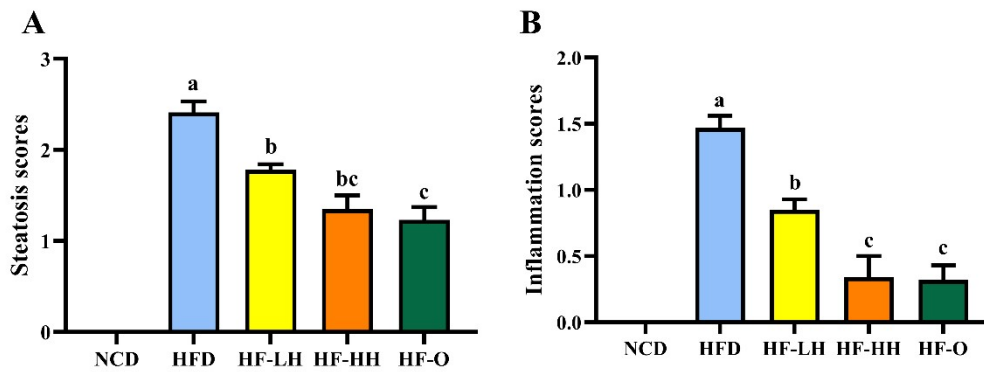


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6 **Fig. S1** Quantitatively analyze the ratio of adipocyte size. Values are expressed as mean
 7 \pm SD and different letters indicate significant differences ($p < 0.05$).

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11 **Fig. S2** Liver histopathological score: hepatocyte steatosis score (A) and inflammation
 12 score (B). Values are expressed as mean \pm SD and different letters indicate significant
 13 differences ($p < 0.05$).

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