

Table S1. Comparison of rat phenotypes between dietary conditions

Condition	HFD 4 weeks	HFD 8 weeks	Washout	Normal diet (1)	Normal diet (2)
Age [weeks]	16	20	20	16	20
Body weight [g]	292.5 ±13.0 **	308.3 ±16.6 **	345.2 ±12.2	320.8 ±15.4	341.2 ±15.2
Liver weight [g]	15.47 ±0.73 **	28.26 ±2.41 **	15.33 ±0.59 **	10.43 ±0.61	11.61 ±0.58
Blood pressure [mmHg]	171 ±10 **	173 ±15 **	189 ±14	185 ±9	191 ±11
Biochemical measurements of serum					
Fasting plasma glucose [mg/dL]	128.7 ±15.4 **	140.6 ±9.1 *	141.6 ±22.7	152.9 ±24.3	132.2 ±10.0
Free fatty acids [mEq/l]	1.33 ±0.29	1.08 ±0.32	1.57 ±0.33	1.14 ±0.26	1.30 ±0.25
Triglyceride [mg/dL]	26.4 ±9.4	20.4 ±2.9	37.8 ±7.6	22.5 ±9.2	29.5 ±10.7
Total cholesterol [mg/dL]	130.9 ±27.0 **	120.2 ±19.5 **	71.5 ±6.4 *	74.3 ±6.3	79.3 ±3.8
ALT [U/L]	91.7 ±15.9 **	214.6 ±68.5 **	45.5 ±7.7	42.5 ±3.4	47.5 ±3.7
AST [U/L]	139.2 ±21.0 **	421.5 ±102.4 **	90.5 ±5.7	95.8 ±8.8	88.5 ±6.1
γ-GT [U/L]	1.60 ±0.51	6.88 ±2.29 **	1.00 ±0.00	1.25 ±0.50	1.00 ±0.00
Triglyceride in liver tissue [mg/g]	21.09 ±4.28 *	18.87 ±0.97 **	15.73 ±4.06	13.06 ±1.80	11.54 ±1.62
Total cholesterol in liver tissue [mg/g]	11.32 ±1.63 **	17.10 ±0.94 **	12.63 ±1.07 **	4.17 ±0.98	3.29 ±0.34
NAFLD score					
Steatosis [0–3]	3 [3]	3 [3]	1 [1]	0 [0]	0 [0]
Lobular inflammation [0–3]	2 [1–2]	2 [2]	0 [0]	0 [0]	0 [0]
Hepatocyte ballooning [0–2]	1 [0–1]	1.5 [1–2]	0 [0]	0 [0]	0 [0]
NAFLD activity score [0–8]	6 [4–6]	6.5 [6–7]	1 [1]	0 [0]	0 [0]
Fibrosis stage [0–4]	0 [0]	1.5 [1–2]	0 [0]	0 [0]	0 [0]

Results are shown as Mean ± SD or median [minimum–maximum].

Difference compared to normal diet of same age was tested by t-test: * P<0.05 and ** P<0.01.