

Diet composition:

Suppliers provided diet compositions are mentioned in Table S1 and S2. Table S1 depicts the energy density (Kcal/g) with energetic part of protein, carbohydrates and fat of the standard diet (SD) and the high-fat high-cholesterol diet (HFHCD). Table S2 depicts the composition in lipids (% by weight) of the standard diet (SD) and the high-fat high-cholesterol diet (HFHCD).

Table S1: SD, HFHCD composition in proteins, carbohydrates and fats

Diet composition	SD	HFHCD
Energy density	3 (Kcal/g)	6.5 (Kcal/g)
Protein	22%	6%
Carbohydrates	66%	8%
Fats	12%	86%

Table S2: SD, HFHCD composition in fats

Fats composition	SD	HFHCD
Total fats (%) by weight	4	61.9
Total saturated fatty acids	0.6	36.4
Total monounsaturated fatty acids	0.7	20.4
Total polyunsaturated fatty acids	2.1	2.1
Cholesterol	0	1.5

Table S3. Primer sequences.

Mouse Gene	Forward primers	Reverse primers
<i>18S</i>	5'-CGCCGCTAGAGGTGAAATTC-3'	5'-TTGGCAAATGCTTTTCGCTC-3'
<i>Tnf-α</i>	5'-TAGCTCCCAGAAAAGCAAGC-3'	5'-TTTCTGGAGGGAGATGTGG-3'
<i>Ccl2</i>	5'-TCCCAATGAGTAGGCTGGAG-3'	5'-TCTGGACCCATTCCTTCTTG-3'
<i>Hmox-1</i>	5'-AGGTACACATCCAAGCCGAGA-3'	5'-CATCACCAGCTTAAAGCCTTCT-3'
<i>Cybb (Nox-2)</i>	5'-AGTGCGTGTGCTCGACAA-3'	5'-GCGGTGTGCAGTGCTATCAT-3'
<i>Nfe2l2 (Nrf-2)</i>	5'-TAGATGACCATGAGTCGCTTGC-3'	5'-GCCAAACTTGCTCCATGTCC-3'
<i>Nqo1</i>	5'-AGGATGGGAGGTACTCGAATC-3'	5'-AGGCGTCCTTCCTTATATGCTA-3'
<i>Tgfb1</i>	5'-CACCATCCATGACATGAACC-3'	5'-CAGAAGTTGGCATGGTAGCC-3'
<i>Acta2 (α-SMA)</i>	5'-GTCCCAGACATCAGGGAGTAA-3'	5'-TCGGATACTTCAGCGTCAGGA-3'
<i>Col1a1</i>	5'-GCTCCTGCTCCTCTTAGGG -3'	5'-GCAGAAAGCACAGCACTCG -3'
<i>Timp1</i>	5'- TTCCAGTAAGGCCTGTAGC-3'	5'-TTATGACCAGGTCCGAGTT -3'
<i>Timp2</i>	5'-CTGGGACACGCTTAGCATCA -3'	5'-GACAGCGAGTGATCTTGAC -3'
<i>Timp3</i>	5'-GAAGCCTCTGAAAGTCTTTGTGG-3'	5'-ACATCTTGCCTTCATACACGC-3'
<i>Mmp2</i>	5'- ATGGTAAACAAGGCTTCATG-3'	5'-TTGAGAAGGATGGCAAGTAT -3'
<i>Mmp9</i>	5'-CATTCGCGTGGATAAGGAGT -3'	5'-TCACACGCCAGAAGAAATTG-3'
<i>Mmp13</i>	5'-ACACTGGCAAAAGCCATTTC-3'	5'-TTTGGGATGCTTAGGGTTG-3'

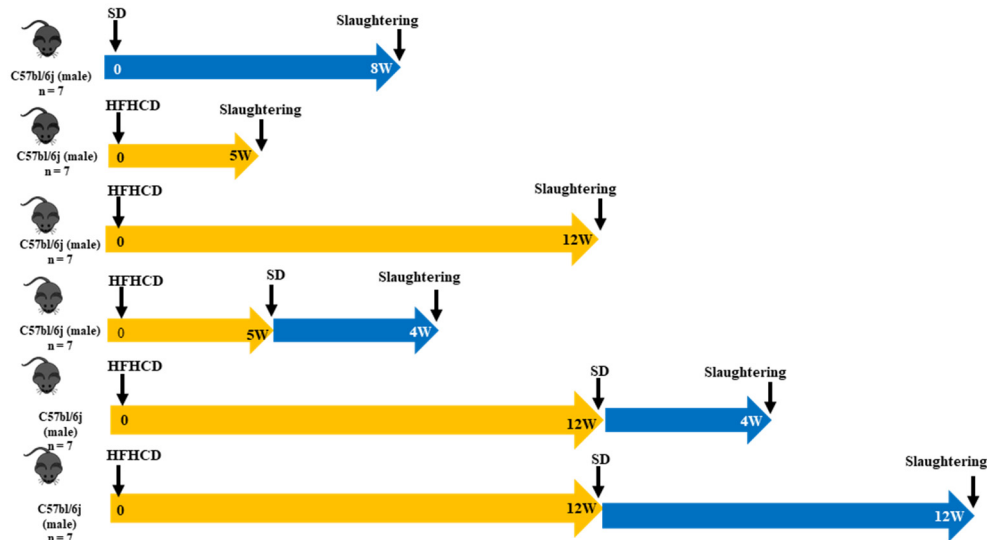


Figure S1: Schematic illustration of all treated groups.

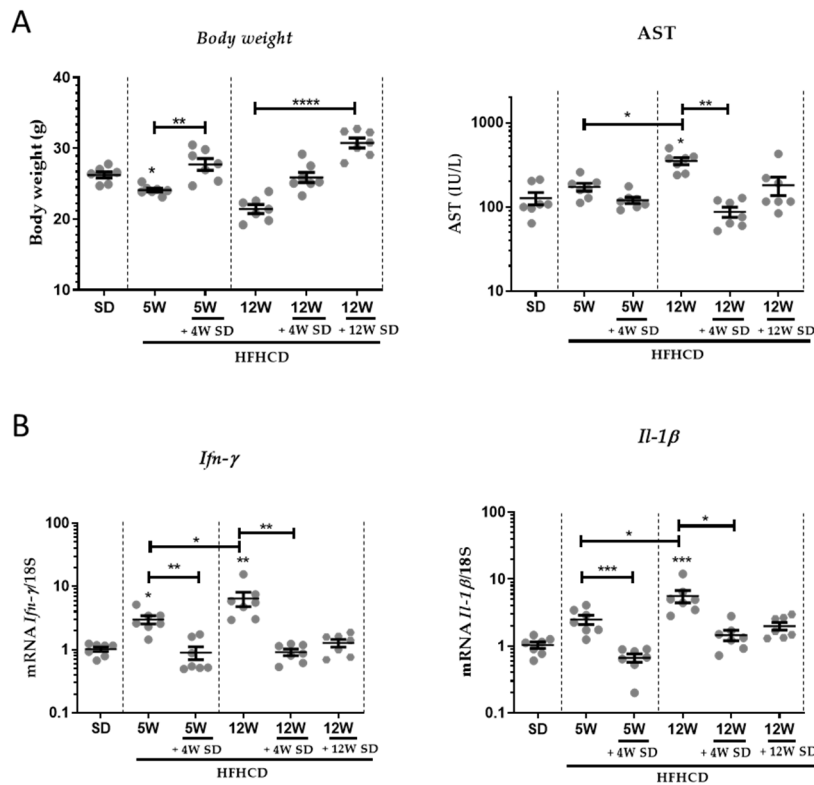


Figure S2: Switching to regular diet resulted in significant changes in body weight, liver damage and inflammation. Six groups of seven male mice were given separate diet regimens of either a standard diet (SD) or a high-fat high-cholesterol diet (HFHCD) for 5 or 12 weeks (W) with some groups returning to the SD for an additional period of 4 or 12 weeks. (A) Total body weight of each mice in grams and levels of AST in plasma. (B) Liver transcript expression of *Ifn-γ* and *Il-1β*. For all graphs, each dot represents an individual and errors bars are expressed as means \pm SEM (* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$ and **** $p < 0.0001$).