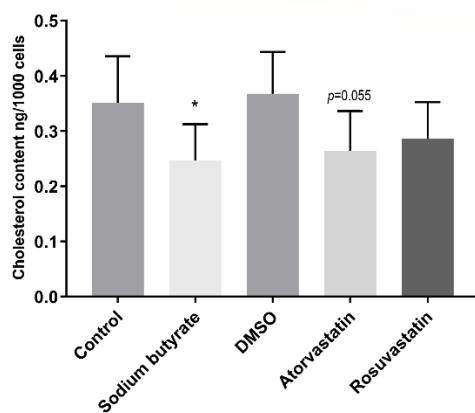
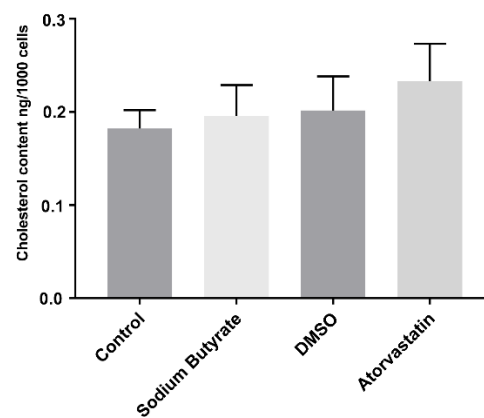


Figure S1. Cellular cholesterol content of HepG2 cells treated with varying concentrations of butyrate or valproate for 24 h. Results represent the mean combined from at least three independent experiments, with error bars representing SEMs. * $p < 0.05$, ** $p < 0.01$, **** $p < 0.0001$.



(a)



(b)

Figure S2. (a) Cellular cholesterol content of BRIN-BD11 cells; (b) Cholesterol content of THP1 cells. Cells were treated with 10 μ M statins or 5 mM sodium butyrate for 24 h. * $p < 0.05$.

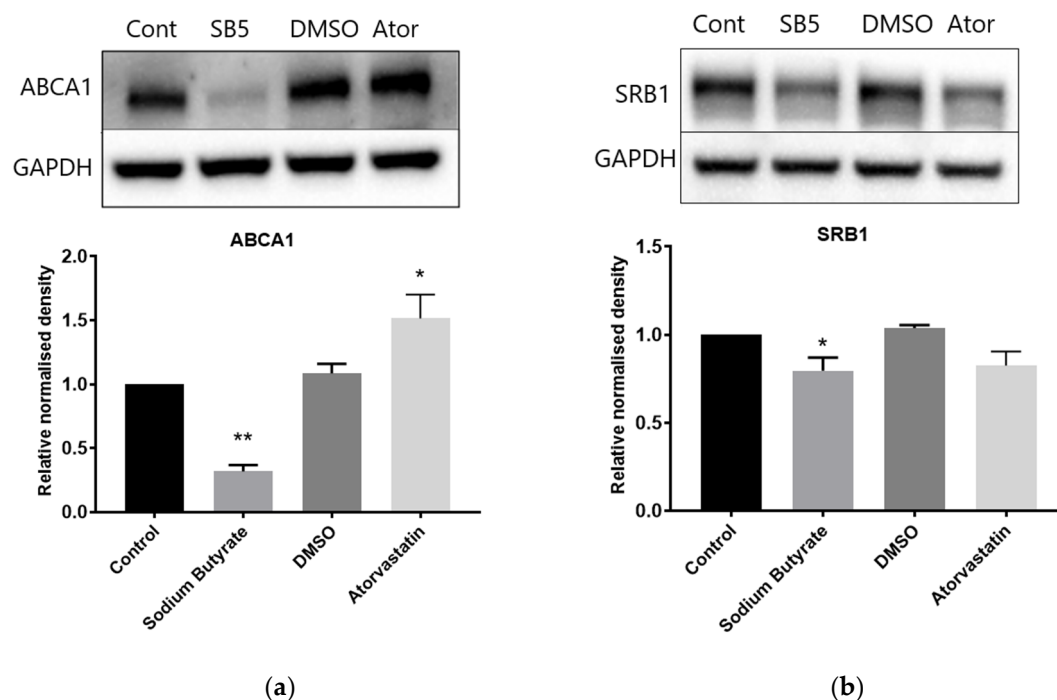


Figure S3. (a) Immunoblot of ABCA1 in HepG2 cells in HLPs; (b) Immunoblot of SRB1 in HepG2 cells in HLPs. Cells were treated with 1 mM (SB1) or 5 mM (SB5) sodium butyrate, or 10 μ M atorvastatin for 24 h in media containing HLPs. The graphs represent the mean density readings as normalised to GAPDH from three independent experiments, with error bars representing SEMs. * $p < 0.05$, ** $p < 0.01$ compared to control.

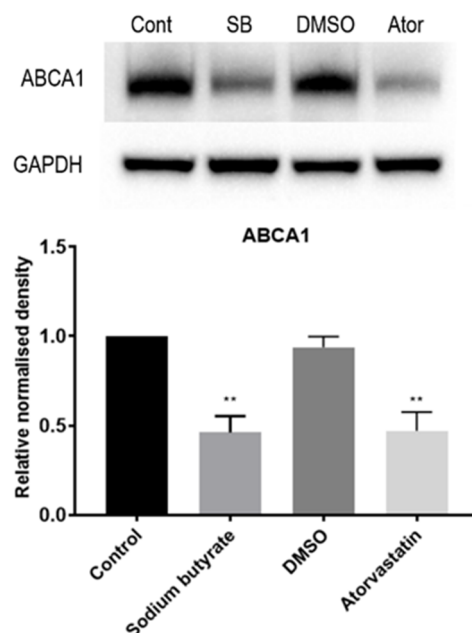


Figure S4. Immunoblot of ABCA1 in THP-1 cells. Cells were treated with 5 mM sodium butyrate or 10 μ M atorvastatin for 24 h. The graph represents the mean combined density readings as normalised to GAPDH from three independent experiments with error bars representing SEMs. ** $p < 0.01$.

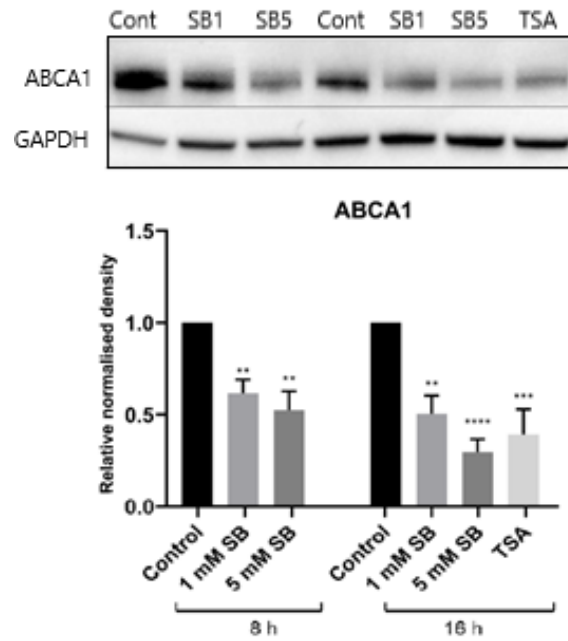


Figure S5. Immunoblot of ABCA1 in HepG2 cells. Cells were treated with 1 mM (SB1) and 5 mM (SB5) sodium butyrate for 8 h and 16 h or TSA for 16 h. The graph represents the mean density readings as normalised to GAPDH from three independent experiments, with error bars representing SEMs. ** $p < 0.01$, *** $p < 0.001$, **** $p < 0.0001$.

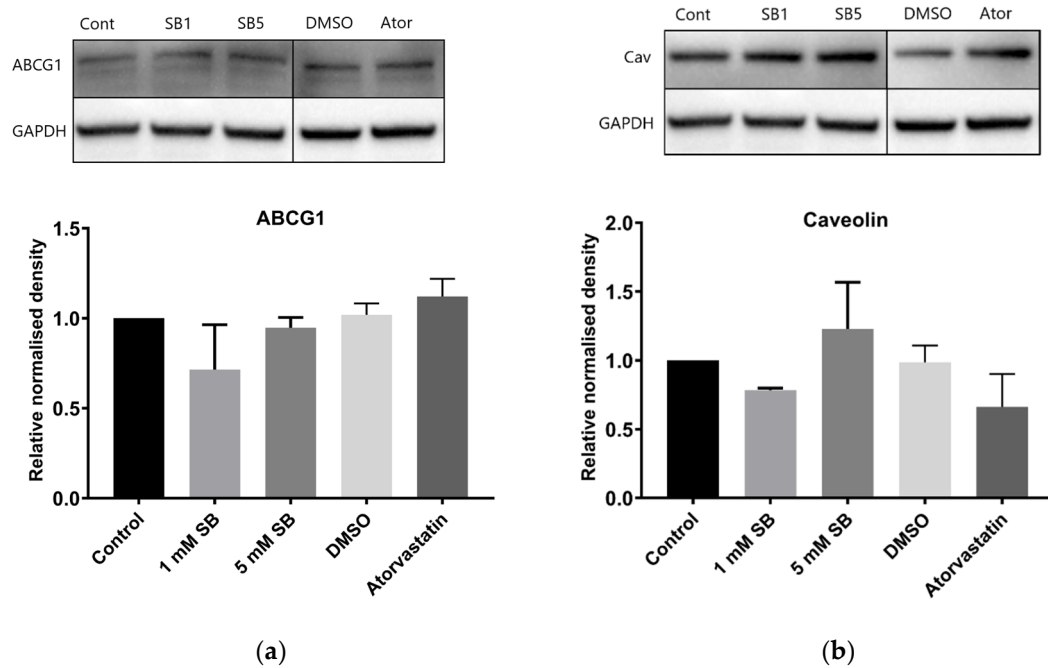


Figure S6. (a) Immunoblot of ABCG1 in HepG2 cells; (b) immunoblot of caveolin in HepG2 cells. Cells were treated with 1 mM (SB1) or 5 mM (SB5) sodium butyrate, or 10 μ M atorvastatin for 24 h in media containing HLPs. The graphs represent the mean density readings as normalised to GAPDH from three independent experiments, with error bars representing SEMs.

Table S1. Primers for qPCR experiments

Target	Forward primer	Reverse primer	Annealing temp
<i>GAPDH</i>	ACAGTTGCCATGTAGACC	TTGAGCACGGGTACTTTA	57-60°
<i>YWHAZ</i>	AACTTGACATTGTGGACATC	AAAAC TATTTGTGGGACAGC	57-63°
<i>RPL13A</i>	GTCTGAAGCCTACAAGAAAG	TGTCAATTTTCTTCTCCACG	61-63°
<i>LDLR</i>	GAGGACAAAGTATTTTGGACAG	G TAGGTTTT CAGCCAACAAG	57°
<i>PPARG</i>	AAAGAAGCCAACACTAAACC	TGGTCATTTTCGTTAAAGGC	63°
<i>SREBF2</i>	CAGCAGGTCAATCATAAACTG	GGACATTCTGATTAAAGTCCTC	61.4°
<i>NR1H3</i>	CATGACCGACTGATG TTC	CAAACACTTGCTCTGAGTG	61.4°
<i>APOA1</i>	AGGAGTACACTAAGAAGCTC	AAACGTTTATTCTGAGCACC	62°
<i>APOB</i>	CTTACATCCTGAACATCAAGAG	AGTTTCCATACACGGTATCC	63°
<i>HMGCR</i>	ACTTCGTGTTTCATGACTTTC	GACATAATCATCTTGACCCTC	59°
<i>SREBF1</i>	AATCTGGGTTTTGTGTCTTC	AAAAGTTGTGTACCTTG TGG	61.4°
<i>CAV1</i>	CAGGGACATCTCTACACC	TCAAAGTCAATCTTGACCAC	61.4°
<i>CYP7A1</i>	AAATCTACCCAGACCCTTTG	TTCCAGGACATATTGTAGCTC	58°
<i>ABCG1</i>	GAGGTGAACCCTTTTCTTTG	CCTTTCTCAACCCCTTTAATC	60°
<i>MVK</i>	CATGTTGTCAGAAGTCCTAC	CTCAAGTTCAAGGATACAGC	59°
<i>ABCA1</i>	GTGTTTCTGGATGAACCC	TTCCATTGACCATGATTGC	62°
<i>SCARB1</i>	ACAAAAGCAACATCACCTTC	TGGGCTTATTCTCCATCATC	62°