

Table S1. Multiple linear regression model. Multiple linear regression model. mRNA gene expression of monocytes following propionate treatment.

Dependent Variable.	Independent Variable	Model				
		Coefficient	<i>p</i>	R ²	Adjusted R ²	<i>p</i>
TNF-α F (2,20)	FFAR3	0.256	0.094	0.41	0.35	0.005
	HDAC2	0.863	0.015			
IL-6 F (2,20)	FFAR2	0.37	0.022	0.37	0.30	0.013
	FFAR3	0.31	0.027			
NFKB1 F (2,20)	HDAC1	0.494	<0.001	0.83	0.80	<0.001
	HDAC2	0.307	0.254			
	HDAC9	0.382	0.004			
RELA F (2,20)	HDAC1	0.637	<0.001	0.90	0.88	<0.001
	HDAC2	0.301	0.182			
	HDAC9	0.339	0.003			
MAPK1 F (2,20)	HDAC1	0.041	0.611	0.58	0.51	<0.001
	HDAC2	0.801	0.004			
	HDAC9	0.091	0.450			

TNF- α ; tumour necrosis factor- α . IL-6; interleukin 6. ¹ TNF- α measured in supernatant of LPS-stimulated monocytes. ² mRNA gene expression measured in 2^{- Δ CT}.

Table S2. Multiple linear regression model. mRNA gene expression of monocytes following butyrate treatment.

	Independent Variable	Model				
		Coefficient	<i>p</i>	R ²	Adjusted R ²	<i>p</i>
NFKB1 F (2,20)	FFAR2	0.625	0.020	0.24	0.17	0.063
	FFAR3	-0.206	0.334			
NFKB1 F (2,20)	HDAC1	0.567	<0.001	0.82	0.79	<0.001
	HDAC2	0.313	0.098			
	HDAC9	0.097	0.456			
RELA F (2,20)	HDAC1	0.557	<0.001	0.89	0.87	<0.001
	HDAC2	0.309	0.033			
	HDAC9	0.171	0.090			
MAPK1 F (2,20)	HDAC1	0.074	0.243	0.87	0.85	<0.001
	HDAC2	0.694	<0.001			
	HDAC9	0.242	0.006			

¹ mRNA gene expression measured in 2^{- Δ CT}.