

**Additional File 2.** Pearson correlation coefficients between *LEP* and *ADIPOQ* DNA methylation and mRNA levels in blood, subcutaneous (SAT) and visceral adipose tissues (VAT) and cardiometabolic risk factors (adjusted for age, sex and waist circumference) (n=73).

	TG <sup>b</sup> (mmo/L)		TC (mmo/L)		HDL-C (mmo/L)		Glucose <sup>a</sup> (mmo/L)		CRP <sup>b</sup> (mg/L) (n=53)		SBP (mm Hg)		DBP (mm Hg)	
	r	p	r	p	r	p	r	p	r	p	r	p	r	p
<b>BLOOD</b>														
<i>LEP</i> -CpG7	0.119	0.33	0.061	0.62	-0.035	0.77	0.125	0.30	<b>-0.397</b>	<b>0.004</b>	-0.060	0.62	-0.050	0.68
<i>LEP</i> -CpG11	0.050	0.68	0.085	0.48	-0.063	0.60	0.142	0.24	-0.187	0.19	0.074	0.54	0.099	0.42
<i>LEP</i> -CpG17	-0.049	0.69	0.137	0.26	0.029	0.81	0.038	0.76	-0.078	0.59	-0.056	0.65	0.002	0.98
<i>LEP</i> -Mean	0.024	0.87	0.058	0.69	-0.057	0.69	-0.111	0.45	<b>-0.285</b>	<b>0.05</b>	0.105	0.47	0.025	0.86
<i>ADIPOQ</i> -CpGE3 <sup>a</sup>	0.059	0.63	0.077	0.53	-0.092	0.45	0.067	0.58	0.196	0.17	0.147	0.23	0.065	0.60
<b>SAT</b>														
<i>LEP</i> -CpG7	-0.139	0.25	0.045	0.71	0.074	0.54	0.085	0.48	0.165	0.25	0.024	0.85	0.082	0.50
<i>LEP</i> -CpG11	-0.066	0.59	0.083	0.49	-0.163	0.18	0.187	0.12	0.047	0.74	0.034	0.78	0.146	0.23
<i>LEP</i> -CpG17	-0.037	0.76	0.213	0.08	-0.042	0.73	-0.036	0.77	0.136	0.35	-0.140	0.25	0.041	0.74
<i>LEP</i> -Mean	-0.047	0.75	0.265	0.06	-0.005	0.97	0.017	0.91	0.145	0.32	0.142	0.33	0.274	0.06
<i>LEP</i> mRNA levels	-0.028	0.82	-0.014	0.91	0.128	0.29	-0.177	0.14	-0.073	0.62	0.208	0.09	0.151	0.21
<i>ADIPOQ</i> -CpGE1	0.045	0.71	0.163	0.18	-0.212	0.08	0.090	0.46	0.186	0.20	0.008	0.95	0.042	0.73
<i>ADIPOQ</i> -CpGE3	0.086	0.48	<b>0.233</b>	<b>0.05</b>	-0.192	0.11	0.001	0.99	0.137	0.342	-0.022	0.93	-0.008	0.95
<i>ADIPOQ</i> -Mean	0.022	0.88	<b>0.377</b>	<b>0.007</b>	-0.152	0.29	0.135	0.35	0.201	0.16	-0.083	0.57	-0.021	0.89
<i>ADIPOQ</i> mRNA levels	0.068	0.58	-0.068	0.58	-0.087	0.48	0.062	0.61	-0.118	0.42	0.104	0.39	0.007	0.95
<b>VAT</b>														
<i>LEP</i> -CpG7	0.014	0.91	0.035	0.77	<b>-0.237</b>	<b>0.05</b>	0.182	0.13	0.043	0.77	0.008	0.95	0.127	0.29
<i>LEP</i> -CpG11	-0.100	0.41	0.067	0.58	-0.141	0.24	0.145	0.23	0.106	0.47	0.097	0.42	0.199	0.10
<i>LEP</i> -CpG17	-0.156	0.20	0.153	0.21	0.128	0.29	-0.029	0.81	0.142	0.33	-0.037	0.76	0.061	0.62
<i>LEP</i> -Mean	-0.161	0.26	0.196	0.17	-0.019	0.897	-0.048	0.74	0.133	0.36	0.093	0.52	0.178	0.22
<i>LEP</i> mRNA levels	0.019	0.88	0.117	0.33	-0.112	0.36	<b>0.311</b>	<b>0.009</b>	-0.114	0.43	0.178	0.14	<b>0.310</b>	<b>0.009</b>
<i>ADIPOQ</i> -CpGE1	0.003	0.98	0.137	0.26	-0.174	0.15	-0.103	0.40	0.171	0.24	-0.043	0.73	-0.166	0.17
<i>ADIPOQ</i> -CpGE3	-0.083	0.49	0.110	0.37	-0.024	0.85	-0.121	0.32	0.121	0.40	0.012	0.93	-0.107	0.38
<i>ADIPOQ</i> -Mean	-0.072	0.62	0.176	0.22	-0.004	0.98	-0.064	0.66	0.161	0.26	0.013	0.93	-0.146	0.31
<i>ADIPOQ</i> mRNA levels	-0.083	0.50	-0.104	0.40	-0.084	0.50	0.098	0.43	-0.213	0.5	-0.003	0.98	0.017	0.89

TG, triglycerides; TC, total cholesterol; HDL-C, high-density lipoprotein-cholesterol; CRP, C-reactive protein; SBP, systolic blood pressure, DBP, diastolic blood pressure.

<sup>a</sup>Results obtained after rank transformation of the variable; <sup>b</sup>Results obtained after log<sub>10</sub>-transformation

Values in bold type are statistically significant (p≤0.05)