

Online Supplementary

***Supplementary Table 1 Relative pairs in the five pedigrees in the Oman Family Study.***

<b>Relationship</b>	<b>N</b>
Parent-offspring	2482
Siblings	1278
Grandparent-grandchild	3774
Avuncular	2815
Half-siblings	322
Grand avuncular	2928
Half avuncular	918
1 <sup>st</sup> Cousins	2610
1 <sup>st</sup> Cousins, 1 removed	932
Half 1 <sup>st</sup> cousins, 1 removed	441
2 <sup>nd</sup> cousins	4363
Other relationships	390
<b>Total</b>	<b>23253</b>

**Supplementary table 2 Correlations of leptin with obesity indices and BP measurements**

	WHtR	BMI	%BF	WC	Ambulatory Daytime SBP	Ambulatory Daytime DBP	Ambulatory Sleep SBP	Ambulatory Sleep DBP	Ambulatory 24-h SBP	Ambulatory 24-h DBP	Office beat-to-beat SBP	Office beat-to-beat DBP
WHtR					.153**	.245**	.308**	.355**	.202**	.297**	.189**	.217**
BMI	.770**				.180**	.269**	.319**	.347**	.229**	.315**	.300**	.272**
%BF	.706**	.751**			.025	.177**	.188**	.283**	.063*	.212**	.098**	.128**
WC	.955**	.785**	.629**		.208**	.269**	.339**	.371**	.259**	.327**	.280**	.299**
Leptin	.569**	.621**	.764**	.472**	-.035	.111**	.090**	.144**	-.005	.125**	.017	-.016

\*\* . Correlation is significant at the 0.01 level (2-tailed). \* . Correlation is significant at the 0.05 level (2-tailed). WHtR: waist-to-height ratio; BMI: body mass index; %BF: percentage of body fat; WC: waist circumference

All variables were log-transformed if not normally distributed.