

## Supplemental Tables

**Table S1: Sample characteristics for CORNET cohorts participating in plasma cortisol GWAS (from Bolton et al. (2014)) and saliva cortisol GWAS.**

Study	n	Men (%)	Age in years		Cortisol (nmol/l)		Sampling clock time Hr
			M (SD)	Range	M (SD)	Range	
<i>Plasma Cortisol</i>							
ORCADES	886	45	53.5(15.7)	17-97	765 (315)	11-3641	0830-1030
CROATIA-Korcula	898	36	56.2 (13.9)	18-98	698 (207)	59-815	0800-0900
CROATIA-Split	496	43	45.0 (14.7)	18-85	979 (404)	94-2831	0730-0900
CROATIA-Vis	892	44	56.4 (15.5)	18-93	622 (230)	64-1820	0730-0900
RS1	2945	45	71.9 (7.0)	61-105	305 (94)	5-679	0800-1100
HBCS1934-44	451	36	60.61 (2.80)	56-67	393 (120)	125-990	0750-1055
NFBC1966	1192	0	31(0)	n/a	380 (160)	40-2370	0800-1100
ALSPAC	1567	50	15.43 (0.26)	14-17	486 (174)	58-1683	0800-1057
InChianti	1210	45	68.3 (15.6)	21-102	375 (135)	19-1291	Before 0900
PIVUS	919	50	70.2 (0.17)	69-72	386 (125)	31-930	0800-1000
PREVEND	1151	51	49.4 (13.0)	28-75	442 (201)	20-1734	0800-1100
<i>Saliva Cortisol</i>							
B58C-T1DGC	1762	49	45.3 (0.34)	45-46	21.1 (10.4)	3.7-61.6	0500-1100
B58C-WTCCC	1052	49	44.9 (0.35)	45- 46	21.0 (9.8)	3.7-60.8	0500-1100
NESDA	1220	33	43.5 (12.5)	18-65	17.3 (7.98)	2.0-66.6	0250-1100
NTR	162	29	29.4 (12.4)	14-75	15.8 (7.4)	2.0-46.0	0800-1100
RS1	1767	44	75.0 (5.8)	65-98	14.6 (8.5)	0.0-60.1	0248-1100
RS3	1119	43	55.3 (4.8)	46-69	14.8 (8.7)	0.7-72.0	0500-1100
MESA	166	50	67.5 (10.3)	49-90	16.2 (9.3)	2.6-89.8	Before 1100
TRAILS	455	47	16.1 (0.6)	14-17	10.9 (6.5)	1.0-112.0	0300-1100

**Reference:** Bolton, J.L., Hayward, C., Direk, N., Lewis, J.G., Hammond, G.L., Hill, L.A., Anderson, A., Huffman, J., Wilson, J.F., Campbell, H., Rudan, I., Wright, A., Hastie, N., Wild, S.H., Velders, F.P., Hofman, A., Uitterlinden, A.G., Lahti, J., Räikkönen, K., Kajantie, E., Widen, E., Palotie, A., Eriksson, J.G., Kaakinen, M., Järvelin, M.-R., Timpson, N.J., Davey Smith, G., Ring, S.M., Evans, D.M., St Pourcain, B., Tanaka, T., Milaneschi, Y., Bandinelli, S., Ferrucci, L., van der Harst, P., Rosmalen, J.G.M., Bakker, S.J.L., Verweij, N., Dullaart, R.P.F., Mahajan, A., Lindgren, C.M., Morris, A., Lind, L., Ingelsson, E., Anderson, L.N., Pennell, C.E., Lye, S.J., Matthews, S.G., Eriksson, J., Mellstrom, D., Ohlsson, C., Price, J.F., Strachan, M.W.J., Reynolds, R.M., Tiemeier, H., Walker, B.R., 2014. Genome wide association identifies common variants at the SERPINA6/SERPINA1 locus influencing plasma cortisol and corticosteroid binding globulin. *PLoS Genet.* 10, e1004474.  
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*Table S2: Morning Saliva GWAS: genotyping methods per cohort*

Study	N	Genotyping Platform	Calling Algorithm	Reference Panel
B58C-T1DGC	1762	III 550K	Illuminus	HapMap release 21 CEU (build 35)
B58C-WTCCC	1052	Aff 500K	Chiamo	HapMap release 21 CEU (build 35)
NESDA	1220	Perlegen 600K	Birdseed	HapMap release 22 CEU (build 36)
NTR	162	Perlegen 600K	Beadstudio	HapMap release 22 CEU (build 36)
RS1	1767	Illumina Human Map 550K	Beadstudio	HapMap release 22 CEU (build 36)
RS3	1119	Illumina Human Map 610K	Beadstudio	HapMap release 22 CEU (build 36)
MESA	166	Aff 6.0	Birdseed	HapMap release 24 CEU (build 36)
TRAILS	455	Illumina BeadStation 500	Beadstudio	HapMap release 22 CEU (build 36)

*Table S3: Quality Control (QC) applied to SNPs before LD score regression*

QC step	Plasma	Saliva
Original SNP number	2,660,191	2,472,180
Overlap well-imputed SNP List	- 1,517,683	- 1,398,157
Missing Values	- 0	- 0
MAF <= 0.01	- 0	- 0
Out-of-bounds p-values	- 0	- 0
Strand-ambiguity	- 7	- 4
Duplicated SNPs	- 0	- 0
Low sample size	- 113,994	- 122,663
Mismatched alleles	- 29	- 23
Missing LD scores	- 151	- 24
Final SNP number	1,028,327	951,308