

Supplementary information

Meta-analysis of genome-wide association studies for personality

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Supplementary Table 1. Genomic control inflation factors (λ) for the five personality dimensions from the 10 studies participating in the GWASNEO Consortium

	Neuroticism	Extraversion	Openness	Agreeableness	Conscientiousness
1. SardiNIA	1.03	1.06	1.05	1.12	1.05
2. NTR/NESDA	1.02	1.02	1.01	1.02	1.01
3. ERF	1.02	1.01	1.00	1.02	1.01
4. SAGE	1.02	1.02	1.03	1.01	1.00
5. HBCS	1.00	1.02	1.02	1.00	1.02
6. NAG/IRPG	0.99	1.00	1.01	1.00	0.99
7. QIMR	1.03	1.02	0.99	1.03	1.03
8. LBC1936	0.99	1.00	1.01	1.01	1.00
9. BLSA	1.06	1.03	1.06	1.03	1.03
10. EGPOT	1.02	1.01	1.03	0.99	1.03
Meta-analysis	1.02	1.01	1.03	1.00	1.02

Supplementary Table 2. Top SNPs associated with Neuroticism in the meta-analysis of the results of the 10 studies participating in the GWASNEO Consortium ($p < 1 \times 10^{-5}$)

SNP	Chr	Alleles ^a	Pooled results				Gene	Pvalues in the 10 participating studies								
			Beta	SE	Pvalue	SardinIA		NTRNESDA	ERF	SAGE	HBCS	NAG/IRPG	QIMR	LBC1936	BLSA	EGPUT
rs6701337	1	CT	1.12	0.24	2.1E-06	<i>MTR</i>	5.2E-01	6.1E-02	9.3E-02	7.9E-02	4.5E-02	2.2E-04	9.0E-03	6.8E-01	3.9E-01	2.1E-01
rs10448113	8	CG	0.52	0.11	4.3E-06	-	9.0E-03	3.5E-02	1.4E-01	5.4E-01	9.0E-01	6.1E-04	1.3E-01	8.2E-01	9.2E-02	8.2E-01
rs10866995	8	AT	0.52	0.11	4.4E-06	-	9.1E-03	3.5E-02	1.4E-01	5.5E-01	9.0E-01	6.1E-04	1.3E-01	8.2E-01	9.3E-02	8.1E-01
rs7548398	1	GA	1.08	0.24	4.9E-06	<i>MTR</i>	5.2E-01	5.6E-02	8.6E-02	5.6E-02	5.3E-02	2.9E-04	9.1E-03	8.6E-01	2.9E-01	3.8E-01
rs2154257	10	CG	-0.43	0.09	5.1E-06	<i>PTPLA</i>	3.4E-01	2.2E-02	6.5E-02	4.7E-01	4.7E-01	9.9E-02	1.3E-01	8.7E-01	1.3E-02	8.9E-03
rs11137594	9	GA	-0.52	0.11	5.1E-06	<i>PSATI</i>	6.2E-02	2.8E-02	5.0E-01	1.1E-01	3.0E-01	5.0E-02	3.9E-04	7.4E-02	2.6E-01	6.4E-01
rs1516952	8	TC	0.99	0.22	5.3E-06	<i>FAM84B</i>	5.7E-04	7.2E-01	1.7E-02	5.7E-02	6.9E-01	5.6E-01	1.4E-03	6.1E-02	5.9E-01	5.1E-01
rs11703744	22	AG	-0.52	0.11	5.3E-06	<i>PEX26</i>	1.5E-01	4.0E-01	1.2E-03	4.5E-02	9.4E-01	5.0E-01	1.8E-01	3.7E-01	7.5E-04	5.0E-01
rs6982207	8	AG	0.52	0.11	5.5E-06	-	8.3E-03	3.5E-02	1.4E-01	4.8E-01	8.9E-01	5.8E-04	2.3E-01	8.5E-01	9.5E-02	8.1E-01
rs4870993	8	GA	0.99	0.22	5.6E-06	<i>FAM84B</i>	8.0E-04	7.0E-01	2.0E-02	1.6E-01	4.5E-01	5.6E-01	1.4E-03	6.1E-02	3.8E-01	5.4E-01
rs7411668	1	TC	1.09	0.24	5.7E-06	<i>MTR</i>	4.9E-01	6.1E-02	8.5E-02	9.0E-02	5.6E-02	3.5E-04	5.7E-03	8.0E-01	2.7E-01	3.8E-01
rs17453906	8	CG	0.52	0.11	5.7E-06	-	8.2E-03	3.4E-02	1.4E-01	5.0E-01	8.9E-01	5.8E-04	2.3E-01	8.5E-01	9.8E-02	8.1E-01
rs17363064	8	AG	0.52	0.11	5.8E-06	-	8.2E-03	3.4E-02	1.4E-01	5.0E-01	8.9E-01	5.8E-04	2.3E-01	8.5E-01	9.8E-02	8.1E-01
rs736759	1	AG	1.08	0.24	5.8E-06	<i>MTR</i>	4.9E-01	6.2E-02	8.5E-02	9.0E-02	5.6E-02	3.5E-04	5.7E-03	8.0E-01	2.6E-01	3.7E-01
rs7212729	17	GA	0.63	0.14	6.1E-06	<i>BCAS3</i>	8.7E-03	3.9E-01	6.4E-01	1.8E-02	6.3E-01	1.6E-03	9.0E-01	4.1E-02	2.1E-01	3.9E-01
rs17453815	8	GA	0.51	0.11	6.6E-06	-	9.8E-03	4.9E-02	1.4E-01	5.9E-01	9.1E-01	3.4E-04	1.2E-01	7.6E-01	7.5E-02	9.9E-01
rs4006372	1	TC	1.07	0.24	6.6E-06	<i>MTR</i>	5.2E-01	5.6E-02	8.7E-02	8.0E-02	5.7E-02	2.9E-04	9.1E-03	8.6E-01	2.9E-01	3.8E-01

rs16834552	1	TC	1.07	0.24	6.6E-06	<i>MTR</i>	5.2E-01	5.6E-02	8.7E-02	8.0E-02	5.7E-02	2.9E-04	9.1E-03	8.6E-01	2.9E-01	3.8E-01
rs4006371	1	TC	1.07	0.24	6.7E-06	<i>MTR</i>	5.2E-01	5.6E-02	8.7E-02	8.0E-02	5.7E-02	2.9E-04	9.1E-03	8.6E-01	2.9E-01	3.8E-01
rs12068674	1	CT	1.07	0.24	6.7E-06	<i>MTR</i>	5.2E-01	5.6E-02	8.7E-02	7.9E-02	5.7E-02	2.9E-04	9.1E-03	8.6E-01	2.9E-01	3.8E-01
rs6698815	1	GA	1.07	0.24	6.8E-06	<i>MTR</i>	5.2E-01	5.7E-02	8.6E-02	8.1E-02	5.7E-02	2.9E-04	9.1E-03	8.6E-01	2.8E-01	3.8E-01
rs6983692	8	TA	0.98	0.22	6.8E-06	<i>FAM84B</i>	8.0E-04	7.0E-01	2.0E-02	1.5E-01	5.6E-01	5.6E-01	1.4E-03	6.1E-02	3.8E-01	5.4E-01
rs6686536	1	TC	1.07	0.24	6.9E-06	<i>MTR</i>	5.2E-01	5.7E-02	8.6E-02	8.1E-02	5.7E-02	2.9E-04	9.1E-03	8.6E-01	2.7E-01	3.8E-01
rs6661736	1	CG	1.07	0.24	7.0E-06	<i>MTR</i>	5.2E-01	5.7E-02	8.6E-02	8.1E-02	5.7E-02	2.9E-04	1.1E-02	8.0E-01	2.6E-01	3.8E-01
rs12256421	10	AG	-0.47	0.11	7.1E-06	<i>PTPLA</i>		3.5E-03	6.4E-02	1.3E-01	8.5E-01	2.1E-01	9.3E-01	2.5E-01	6.1E-03	6.8E-02
rs4871753	8	AC	0.98	0.22	7.1E-06	<i>FAM84B</i>	8.0E-04	7.0E-01	1.8E-02	1.6E-01	4.5E-01	5.6E-01	1.4E-03	1.2E-01	3.8E-01	5.4E-01
rs17513400	17	GA	0.62	0.14	8.0E-06	<i>BCAS3</i>	1.3E-02	4.1E-01	6.5E-01	1.9E-02	5.9E-01	1.6E-03	9.3E-01	3.7E-02	2.2E-01	4.0E-01
rs10495388	1	CA	1.07	0.24	8.0E-06	<i>MTR</i>	5.0E-01	6.1E-02	8.5E-02	8.9E-02	5.7E-02	3.4E-04	1.1E-02	8.0E-01	2.7E-01	3.8E-01
rs12509930	4	GA	0.46	0.10	8.3E-06	<i>SHROOM3</i>	1.5E-01	7.5E-01	3.6E-01	2.5E-01	5.0E-01	1.3E-01	1.7E-01	2.0E-02	9.4E-04	3.8E-02
rs9297749	8	CG	0.96	0.21	8.3E-06	<i>FAM84B</i>	1.9E-03	7.0E-01	1.8E-02	1.5E-01	5.6E-01	4.9E-01	1.4E-03	6.1E-02	3.8E-01	5.4E-01
rs7018865	9	AG	-0.50	0.11	8.3E-06	<i>PSATI</i>	8.7E-02	1.2E-02	4.7E-01	6.9E-02	2.9E-01	1.0E-01	3.7E-04	1.5E-01	2.7E-01	8.1E-01
rs6601097	5	CA	0.61	0.14	8.4E-06	<i>RASGEF1C</i>			1.4E-01	5.3E-02	8.9E-01	4.1E-02	4.2E-03	4.0E-02		3.3E-01
rs944513	9	GT	-0.50	0.11	8.5E-06	<i>PSATI</i>	8.8E-02	1.1E-02	4.7E-01	6.9E-02	2.9E-01	1.0E-01	3.7E-04	1.5E-01	2.7E-01	8.5E-01
rs11707952	3	GA	-0.43	0.10	8.7E-06	<i>Q711G2</i>	2.4E-01	1.2E-02	1.9E-01	9.2E-01	5.4E-01	1.2E-02	9.1E-03	3.4E-01	5.1E-03	7.2E-01
rs12513013	4	CT	0.45	0.10	9.7E-06	<i>SHROOM3</i>	1.5E-01	7.7E-01	3.6E-01	2.6E-01	4.5E-01	1.3E-01	1.7E-01	2.7E-02	1.0E-03	3.9E-02
rs13270320	8	AG	0.76	0.17	9.9E-06	<i>FAM84B</i>	4.7E-04	6.0E-01	3.4E-01	1.5E-01	9.4E-01	1.7E-01	5.8E-02	2.5E-01	3.5E-02	7.0E-01

SNP = Single Nucleotide Polymorphism

Chr = Chromosome

^a First allele is the minor allele, for which the effect is reported

Supplementary Table 3. Top SNPs associated with Extraversion in the meta-analysis of the results of the 10 studies participating in the GWASNEO Consortium ($p < 1 \times 10^{-5}$)

SNP	Chr	Alleles ^a	Pooled results				Gene	Pvalues in the 10 participating studies								
			Beta	SE	Pvalue	SardiNIA		NTRNESDA	ERF	SAGE	HBCS	NAG/IRPG	QIMR	LBC1936	BLSA	EGPUT
rs1505635	9	AC	-0.43	0.08	3.1E-07	<i>PSATI</i>	9.2E-05	4.5E-02	2.5E-01	9.9E-01	1.1E-01	4.4E-02	5.0E-02	2.0E-01	2.0E-01	9.4E-01
rs1505634	9	AG	-0.43	0.08	3.3E-07	<i>PSATI</i>	1.5E-04	3.8E-02	2.5E-01	1.0E+00	1.1E-01	3.9E-02	5.0E-02	2.0E-01	2.0E-01	9.4E-01
rs6420241	9	CG	-0.42	0.08	3.6E-07	<i>PSATI</i>	9.4E-05	4.6E-02	2.5E-01	9.7E-01	1.0E-01	4.5E-02	5.2E-02	2.3E-01	2.0E-01	9.3E-01
rs1505640	9	TC	-0.41	0.08	5.9E-07	<i>PSATI</i>	6.9E-05	5.6E-02	2.6E-01	9.3E-01	1.1E-01	8.3E-02	4.5E-02	3.5E-01	1.0E-01	9.3E-01
rs6559398	9	GA	-0.42	0.08	6.2E-07	<i>PSATI</i>	1.0E-04	5.1E-02	2.6E-01	9.5E-01	1.1E-01	9.3E-02	4.3E-02	3.1E-01	9.5E-02	9.3E-01
rs1394937	9	GC	-0.42	0.08	6.4E-07	<i>PSATI</i>	2.6E-04	4.3E-02	2.5E-01	9.7E-01	1.0E-01	5.3E-02	5.0E-02	2.0E-01	2.0E-01	9.3E-01
rs1505636	9	TA	-0.41	0.08	6.6E-07	<i>PSATI</i>	7.2E-05	5.8E-02	2.6E-01	9.3E-01	1.0E-01	8.5E-02	4.5E-02	3.5E-01	9.4E-02	9.3E-01
rs1505642	9	GA	-0.41	0.08	6.8E-07	<i>PSATI</i>	8.4E-05	5.8E-02	2.4E-01	9.3E-01	1.1E-01	8.3E-02	5.4E-02	3.5E-01	9.8E-02	9.2E-01
rs1394936	9	TC	-0.41	0.08	8.3E-07	<i>PSATI</i>	2.3E-04	4.7E-02	2.6E-01	9.9E-01	1.5E-01	6.7E-02	4.3E-02	3.1E-01	1.0E-01	9.5E-01
rs1505637	9	GA	-0.41	0.08	8.9E-07	<i>PSATI</i>	9.6E-05	5.9E-02	2.6E-01	9.3E-01	1.4E-01	8.5E-02	4.5E-02	3.5E-01	9.4E-02	9.3E-01
rs10217162	9	CT	-0.40	0.08	1.1E-06	<i>PSATI</i>	2.6E-04	5.8E-02	2.6E-01	9.3E-01	1.1E-01	8.8E-02	4.5E-02	3.5E-01	9.6E-02	9.3E-01
rs1505639	9	AG	-0.40	0.08	1.1E-06	<i>PSATI</i>	2.3E-04	6.1E-02	2.6E-01	9.3E-01	1.1E-01	8.8E-02	4.5E-02	3.5E-01	9.9E-02	9.3E-01
rs7186445	16	TC	-0.70	0.15	1.4E-06	<i>WWOX</i>	3.6E-01	2.5E-03	4.5E-01	7.0E-02	8.5E-03	4.5E-02	5.3E-01	3.0E-01	1.3E-01	8.6E-01
rs2221705	16	CT	-0.69	0.14	2.1E-06	<i>WWOX</i>	6.7E-01	2.3E-03	4.4E-01	6.2E-02	7.8E-03	4.5E-02	6.4E-01	2.3E-01	1.2E-01	7.0E-01
rs1505632	9	AG	-0.39	0.08	2.2E-06	<i>PSATI</i>	3.5E-04	4.3E-02	1.9E-01	9.4E-01	1.6E-01	4.8E-02	1.2E-01	2.7E-01	2.6E-01	9.0E-01
rs234802	9	CA	-0.40	0.09	3.0E-06	<i>PSATI</i>	4.6E-04	3.6E-02	1.0E-01	5.8E-01	4.7E-01	1.4E-01	2.1E-01	3.4E-01	1.2E-01	9.5E-01
rs885007	9	GA	-0.39	0.08	3.2E-06	<i>PSATI</i>	2.7E-04	4.9E-02	2.0E-01	9.1E-01	1.5E-01	7.8E-02	1.0E-01	4.6E-01	1.3E-01	9.1E-01

rs17654551	16	CG	-0.67	0.15	3.6E-06	<i>WWOX</i>	5.1E-01	2.8E-03	5.0E-01	5.5E-02	1.4E-02	4.5E-02	4.8E-01	2.6E-01	2.3E-01	8.3E-01
rs234801	9	AC	-0.39	0.09	4.1E-06	<i>PSATI</i>	6.1E-04	3.6E-02	1.0E-01	6.0E-01	5.6E-01	1.4E-01	2.1E-01	3.3E-01	1.2E-01	9.5E-01
rs7922066	10	GA	0.44	0.10	4.2E-06	<i>CRTAC1</i>	3.6E-01	1.6E-01	4.1E-02	2.2E-02	9.2E-01	1.5E-02	8.4E-01	4.6E-03	1.4E-01	3.8E-02
rs16873301	6	TC	0.57	0.13	4.7E-06	<i>PHACTRI</i>	9.9E-01	2.9E-01	2.6E-01	3.0E-01	6.1E-02	2.1E-03	5.7E-01	1.9E-01	3.0E-03	7.1E-02
rs13041373	20	TA	0.63	0.14	5.1E-06	<i>PLCBI</i>	4.5E-02	8.2E-01	1.9E-02	5.6E-01	7.6E-01	3.5E-03	1.4E-01	4.2E-02	8.0E-03	2.2E-01
rs6559399	9	CA	-0.39	0.09	5.5E-06	<i>PSATI</i>	7.2E-04	5.3E-02	1.0E-01	7.0E-01	4.5E-01	1.5E-01	2.2E-01	4.2E-01	6.8E-02	9.8E-01
rs4146	4	TC	0.38	0.08	5.8E-06	<i>ADAM29</i>	9.8E-02	6.4E-03	8.8E-01	1.0E-03	3.7E-01	8.9E-01	2.8E-02	1.3E-01	9.0E-02	1.5E-01
rs13262484	8	GA	0.63	0.14	6.3E-06	<i>RIPK2</i>	2.3E-02	3.6E-02	3.6E-01	6.0E-01	7.6E-02	1.7E-01	6.5E-02	2.6E-01	4.6E-03	9.1E-01
rs955905	16	GA	0.47	0.10	6.4E-06	-	2.8E-01	4.1E-01	5.2E-03	1.3E-02	4.4E-01	9.2E-03	3.9E-01	1.4E-01	1.3E-01	1.0E+00
rs1505641	9	AG	-0.37	0.08	6.9E-06	<i>PSATI</i>	1.0E-04	6.4E-02	2.0E-01	8.4E-01	3.7E-01	8.4E-02	1.3E-01	5.3E-01	1.3E-01	9.7E-01
rs10948174	6	AT	0.53	0.12	7.0E-06	<i>PHACTRI</i>	9.8E-01	3.4E-01	1.6E-01	3.3E-01	3.5E-02	3.6E-03	4.2E-01	3.0E-01	5.0E-03	6.2E-02
rs1505644	9	CT	-0.37	0.08	8.1E-06	<i>PSATI</i>	7.7E-04	9.0E-02	2.3E-01	8.9E-01	1.1E-01	1.3E-01	9.7E-02	4.9E-01	9.2E-02	8.7E-01
rs8057458	16	GC	-0.68	0.15	8.8E-06	<i>CDH13</i>	4.0E-06	3.2E-02	6.3E-01	7.2E-01	8.0E-01	1.9E-02		6.6E-01	6.2E-01	6.5E-01

See for notes in Supplementary Table 2

Supplementary Table 4. Top SNPs associated with Openness to Experience in the meta-analysis of the results of the 10 studies participating in the GWASNEO Consortium ($p < 1 \times 10^{-5}$)

SNP	Chr	Alleles ^a	Pooled results			Gene	Pvalues in the 10 participating studies									
			Beta	SE	Pvalue		SardiNIA	NTRNESDA	ERF	SAGE	HBCS	NAG	QIMR	LBC1936	BLSA	EGPUT
rs1477268	5	CT	0.48	0.09	2.79E-08	<i>RASA1</i>	2.1E-04	1.5E-01	6.9E-02	5.7E-02	9.1E-02	9.6E-03	1.7E-01	8.1E-01	2.8E-02	1.4E-01
rs2032794	5	CT	0.48	0.09	3.13E-08	<i>RASA1</i>	2.0E-04	1.6E-01	6.9E-02	5.2E-02	8.8E-02	1.2E-02	1.7E-01	8.1E-01	2.8E-02	1.6E-01
rs17591778	5	AG	0.47	0.09	8.73E-08	<i>RASA1</i>	2.3E-04	2.2E-01	7.4E-02	4.9E-02	6.0E-02	1.6E-02	2.5E-01	7.4E-01	1.7E-02	2.6E-01
rs4141503	5	TC	0.46	0.09	1.20E-07	<i>RASA1</i>	3.4E-04	2.2E-01	8.7E-02	5.3E-02	6.4E-02	2.5E-02	2.1E-01	9.4E-01	3.3E-02	2.7E-01
rs17629760	5	AG	0.46	0.09	1.50E-07	<i>RASA1</i>	3.4E-04	2.2E-01	8.4E-02	5.3E-02	6.5E-02	2.6E-02	2.7E-01	9.3E-01	2.0E-02	2.7E-01
rs17629700	5	TC	0.46	0.09	1.73E-07	<i>RASA1</i>	2.3E-04	2.3E-01	8.4E-02	5.3E-02	6.5E-02	2.7E-02	2.5E-01	7.3E-01	1.8E-02	2.7E-01
rs16902538	5	TC	0.46	0.09	1.76E-07	<i>RASA1</i>	2.4E-04	2.2E-01	8.1E-02	5.3E-02	7.6E-02	2.7E-02	2.5E-01	7.3E-01	1.8E-02	2.7E-01
rs10932966	2	CA	-0.53	0.10	4.80E-07	<i>MOGATI</i>	3.0E-02	1.7E-02	1.7E-03	1.1E-01	9.7E-01	1.9E-01		7.8E-02	1.3E-01	2.5E-01
rs12614577	2	GC	-0.43	0.09	6.32E-07	<i>SGPP2</i>	5.7E-02	2.0E-01	2.1E-03	6.2E-02	8.3E-01	2.4E-02		7.5E-02	1.2E-01	5.0E-02
rs2544698	5	CG	0.44	0.09	9.72E-07	<i>RASA1</i>	4.5E-04	1.9E-01	3.8E-01	6.4E-02	1.1E-01	4.0E-02	1.9E-01	7.2E-01	3.6E-02	1.5E-01
rs10180632	2	GA	-0.38	0.08	1.03E-06	<i>FARSB</i>	9.6E-03	1.8E-01	1.1E-03	1.1E-01	9.6E-01	5.1E-02		1.9E-01	4.4E-01	5.2E-02
rs6740452	2	CT	-0.38	0.08	1.16E-06	<i>FARSB</i>	1.1E-02	1.8E-01	1.1E-03	1.0E-01	9.6E-01	5.1E-02		1.9E-01	4.4E-01	5.2E-02
rs2637074	5	CA	0.45	0.09	1.17E-06	<i>RASA1</i>	4.1E-05	2.1E-01	4.6E-01	9.6E-02	1.1E-01	6.5E-02	2.4E-01	7.2E-01	3.6E-02	1.7E-01
rs4674677	2	GA	-0.37	0.08	1.82E-06	<i>MOGATI</i>	1.0E-02	1.8E-01	1.0E-03	1.6E-01	8.4E-01	5.1E-02		1.8E-01	4.4E-01	5.2E-02
rs10829186	10	GA	-0.41	0.09	2.13E-06	<i>ARL5B</i>	1.7E-02	1.9E-01	5.3E-03	3.0E-02	1.0E+00	5.0E-02	9.6E-03	7.6E-01	2.7E-01	6.7E-01
rs16970755	17	AG	-0.37	0.08	2.33E-06	<i>TNRC6C</i>	1.3E-01	1.9E-02	2.0E-02	2.2E-01	3.6E-01	1.2E-02	8.5E-01	3.0E-01	9.9E-02	4.1E-01
rs13179075	5	TC	0.51	0.11	2.59E-06	<i>N/A</i>	9.6E-02	8.7E-02	4.4E-01	1.4E-02	6.7E-02	1.4E-01	9.0E-02	5.8E-01	9.6E-02	2.7E-01

rs677035	11	TC	-0.56	0.12	2.61E-06	<i>KCNJI</i>	6.8E-01	4.3E-02	1.8E-02	1.1E-02	6.1E-02	7.1E-01	9.2E-01	4.6E-01	2.0E-04	4.4E-01
rs7718356	5	GT	0.50	0.11	3.20E-06	-	9.6E-02	1.3E-01	4.5E-01	1.5E-02	5.7E-02	1.4E-01	9.0E-02	5.8E-01	1.2E-01	1.4E-01
rs16902548	5	TG	0.45	0.10	3.34E-06	<i>RASA1</i>	3.2E-04	2.3E-01	5.2E-01	6.0E-02	1.1E-01	9.3E-02	2.4E-01	8.9E-01	6.2E-02	2.4E-01
rs30421	5	AG	0.43	0.09	4.09E-06	<i>RASA1</i>	3.3E-04	2.7E-01	4.6E-01	8.7E-02	8.9E-02	9.1E-02	2.4E-01	1.0E+00	4.5E-02	2.7E-01
rs11135312	5	AG	0.49	0.11	4.73E-06	-	9.6E-02	1.3E-01	3.5E-01	2.1E-02	6.2E-02	1.4E-01	8.4E-02	6.9E-01	1.2E-01	2.4E-01
rs947473	10	AC	-0.40	0.09	4.75E-06	<i>PRKCQ</i>		2.2E-03	2.9E-02	3.6E-01	2.6E-01	2.7E-01	2.4E-01	3.0E-01	6.1E-02	9.8E-01
rs12815688	12	TC	0.60	0.13	4.91E-06	<i>ETNK</i>	7.2E-01	1.0E-03	6.7E-03	3.3E-01	3.6E-01	3.0E-02	6.6E-01	7.5E-02	8.2E-03	9.3E-01
rs12513673	5	CT	0.49	0.11	5.16E-06	-	9.6E-02	1.3E-01	3.3E-01	2.1E-02	8.3E-02	1.4E-01	8.4E-02	6.4E-01	1.2E-01	2.4E-01
rs1001168	17	GC	-0.36	0.08	5.64E-06	<i>TNRC6C</i>	1.9E-01	3.6E-02	1.7E-02	1.4E-01	4.8E-01	1.3E-02	8.8E-01	3.3E-01	7.5E-02	5.5E-01
rs16970672	17	AG	-0.36	0.08	6.00E-06	-	1.3E-01	1.3E-02	1.3E-02	2.7E-01	5.0E-01	1.3E-02	7.0E-01	5.5E-01	2.4E-01	5.4E-01
rs11786021	8	CT	-0.41	0.09	6.01E-06	<i>INTS8</i>	5.8E-04	6.2E-02	2.0E-01	9.6E-03	5.5E-01	5.2E-01	8.8E-01	2.7E-01	8.0E-02	7.1E-01
rs7827536	8	GT	-0.59	0.13	6.13E-06	<i>ZFHX4</i>	6.7E-03	5.9E-03	3.3E-01	1.2E-01	1.3E-01	9.3E-01	3.1E-02	8.1E-01	3.8E-01	3.6E-01
rs1447108	2	AG	-0.36	0.08	6.62E-06	<i>MOGATI</i>	4.1E-02	3.9E-01	5.0E-04	9.4E-02	8.1E-01	2.1E-02		1.6E-01	5.6E-01	6.5E-02
rs11692810	2	CA	-0.36	0.08	6.64E-06	<i>MOGATI</i>	4.1E-02	3.9E-01	4.5E-04	8.7E-02	7.5E-01	2.2E-02		1.7E-01	5.3E-01	6.6E-02
rs12614976	2	AT	-0.36	0.08	6.71E-06	<i>MOGATI</i>	4.1E-02	3.9E-01	4.5E-04	8.6E-02	7.5E-01	2.2E-02		1.7E-01	5.3E-01	6.5E-02
rs2230491	14	TC	0.45	0.10	7.06E-06	<i>AKAP5</i>	1.9E-01	1.6E-04	5.2E-01	2.4E-01	3.2E-03	4.0E-01	4.0E-01	1.0E-01	2.2E-01	9.3E-01
rs7714020	5	GA	0.37	0.08	7.44E-06	<i>COX7C</i>	1.4E-03	2.1E-01	2.6E-02	1.9E-01	1.5E-01	3.0E-01	7.8E-02	2.6E-01	7.4E-02	3.5E-01
rs4515089	3	AC	-0.58	0.13	8.38E-06	-	2.5E-02	4.6E-01	1.9E-02	2.7E-01	3.2E-01	6.5E-01	1.5E-01	1.5E-01	7.6E-03	2.8E-01
rs2452761	5	TC	0.37	0.08	8.41E-06	<i>COX7C</i>	1.4E-03	1.5E-01	2.6E-02	3.4E-01	3.7E-01	3.0E-01	7.8E-02	4.7E-01	7.4E-02	3.5E-01
rs12809316	12	GT	0.81	0.18	8.68E-06	<i>ETNK</i>	6.2E-02	1.2E-03	2.7E-02	1.4E-01	7.8E-01	2.2E-02	1.5E-01	2.8E-01	5.2E-02	7.9E-01
rs2452759	5	AG	0.37	0.08	9.26E-06	<i>COX7C</i>	1.8E-03	1.4E-01	2.6E-02	3.7E-01	3.2E-01	3.0E-01	7.8E-02	4.5E-01	7.4E-02	3.4E-01
rs664451	11	AG	-0.52	0.12	9.64E-06	<i>KCNJI</i>	4.5E-01	3.9E-02	1.8E-02	2.8E-02	6.0E-02	7.6E-01	9.2E-01	4.5E-01	2.1E-04	4.6E-01

See for notes in Supplementary Table 2

Supplementary Table 5. Top SNPs associated with Agreeableness in the meta-analysis of the results of the 10 studies participating in the GWASNEO Consortium ($p < 1 \times 10^{-5}$)

SNP	Chr	Alleles ^a	Pooled results			Gene	Pvalues in the 10 participating studies									
			Beta	SE	Pvalue		SardiNIA	NTRNESDA	ERF	SAGE	HBCS	NAG/IRPG	QIMR	LBC1936	BLSA	EGPUT
rs8029033	15	CT	-0.36	0.07	1.2E-06	<i>UACA</i>	4.8E-03	2.1E-01	7.4E-01	2.3E-01	4.9E-04	1.4E-01	1.8E-01	1.2E-01	9.9E-02	8.9E-01
rs8027878	15	GC	-0.36	0.08	2.1E-06	<i>UACA</i>	3.5E-03	1.5E-01	7.1E-01	2.9E-01	4.9E-04		1.7E-01	9.7E-02	9.4E-02	9.6E-01
rs12945271	17	CT	-0.29	0.06	3.9E-06	<i>RPH3AL</i>	1.3E-01	1.7E-03	8.4E-02	6.6E-02	2.4E-02	3.7E-01	1.0E+00	9.0E-01	1.1E-02	4.3E-01
rs8038866	15	TC	-0.33	0.07	7.4E-06	<i>UACA</i>	4.2E-02	1.0E-01	5.5E-01	5.8E-01	4.9E-05	9.6E-02	7.4E-01	8.5E-02	1.3E-01	9.4E-01
rs7108752	11	AG	0.33	0.07	7.6E-06	<i>ARNTL</i>	1.6E-02	2.6E-03	1.8E-01	6.3E-02	8.7E-01	3.5E-02	3.2E-01	1.8E-01	5.4E-01	2.6E-01
rs2433288	5	CG	-0.28	0.06	7.6E-06	-	1.4E-03	2.9E-03	1.4E-02	2.7E-01	3.8E-02	5.6E-01	7.5E-01	3.7E-01	3.3E-01	8.6E-01
rs4817527	21	AG	-0.28	0.06	7.7E-06	<i>OLIG1</i>	3.7E-02	2.3E-02	3.8E-03	1.6E-02	8.1E-02	8.8E-01	9.5E-01	4.8E-01	9.8E-02	2.6E-01
rs7938000	11	TC	0.32	0.07	8.3E-06	<i>ARNTL</i>	1.3E-02	4.9E-03	1.7E-01	7.5E-02	7.6E-01	3.4E-02	3.3E-01	2.0E-01	5.4E-01	2.7E-01
rs11022712	11	AG	0.33	0.07	8.8E-06	<i>ARNTL</i>	1.6E-02	2.6E-03	1.7E-01	9.1E-02	7.7E-01	3.5E-02	3.2E-01	2.1E-01	5.4E-01	2.6E-01
rs11022711	11	AG	0.33	0.07	8.9E-06	<i>ARNTL</i>	1.6E-02	2.6E-03	1.7E-01	9.1E-02	7.7E-01	3.5E-02	3.2E-01	2.1E-01	5.4E-01	2.6E-01
rs7222730	17	TC	-0.28	0.06	9.1E-06	<i>RPH3AL</i>	1.6E-01	3.4E-03	9.4E-02	8.4E-02	5.0E-02	1.6E-01	7.9E-01	9.3E-01	5.4E-03	4.2E-01
rs10766061	11	TA	0.33	0.07	9.4E-06	<i>ARNTL</i>	1.6E-02	3.1E-03	1.7E-01	8.9E-02	7.7E-01	3.5E-02	3.2E-01	2.1E-01	5.4E-01	2.6E-01
rs11022714	11	TG	0.32	0.07	9.6E-06	<i>ARNTL</i>	1.4E-02	3.7E-03	1.9E-01	7.5E-02	7.7E-01	3.4E-02	3.3E-01	2.0E-01	5.7E-01	2.5E-01
rs7124156	11	CT	0.32	0.07	9.6E-06	<i>ARNTL</i>	1.4E-02	3.7E-03	1.9E-01	7.5E-02	7.6E-01	3.4E-02	3.3E-01	2.0E-01	5.8E-01	2.4E-01

See for notes in Supplementary Table 2

Supplementary Table 6. Top SNPs associated with Conscientiousness in the meta-analysis of the results of the 10 studies participating in the GWASNEO Consortium ($p < 1 \times 10^{-5}$)

SNP	Chr	Alleles ^a	Pooled results			Gene	Pvalues in the 10 participating studies									
			Beta	SE	Pvalue		SardiNIA	NTRNESDA	ERF	SAGE	HBCS	NAG	QIMR	LBC1936	BLSA	EGPUT
rs2576037	18	TC	-0.41	0.07	4.9E-08	<i>KATNAL2</i>	5.6E-02	2.1E-02	1.1E-02	5.2E-03	8.3E-05	4.0E-01	5.3E-03	9.8E-01	3.3E-01	6.8E-01
rs7233515	18	AG	-0.40	0.08	7.9E-08	<i>KATNAL2</i>	9.9E-02	3.3E-02	9.0E-03	2.0E-03	7.0E-05	3.3E-01	1.0E-02	9.0E-01	2.3E-01	8.4E-01
rs2247578	18	AG	-0.40	0.07	1.1E-07	<i>IER3IP1</i>	1.6E-01	1.4E-02	6.4E-02	2.7E-03	1.8E-03	6.6E-01	1.1E-02	7.6E-01	2.4E-01	3.4E-01
rs2668778	18	AC	-0.40	0.07	1.1E-07	<i>IER3IP1</i>	1.3E-01	1.8E-02	6.4E-02	3.2E-03	1.1E-03	6.6E-01	1.1E-02	6.9E-01	2.4E-01	3.4E-01
rs2571034	18	GA	-0.40	0.08	1.1E-07	<i>KATNAL2</i>	1.0E-01	4.3E-02	8.9E-03	2.1E-03	8.4E-05	3.3E-01	1.0E-02	8.6E-01	2.4E-01	8.5E-01
rs2246877	18	GA	-0.40	0.08	1.4E-07	<i>KATNAL2</i>	1.1E-01	3.7E-02	1.2E-02	9.0E-04	8.0E-05	3.8E-01	2.3E-02	9.1E-01	3.1E-01	7.5E-01
rs2247777	18	CG	-0.39	0.07	1.4E-07	<i>IER3IP1</i>	1.6E-01	2.0E-02	6.5E-02	3.0E-03	1.1E-03	6.6E-01	1.1E-02	6.9E-01	2.6E-01	3.2E-01
rs9304340	18	GA	-0.38	0.07	2.8E-07	<i>KATNAL2</i>	2.1E-02	8.4E-02	6.8E-02	3.1E-02	3.3E-05	8.4E-01	1.4E-01	2.0E-01	2.0E-01	5.1E-01
rs1539878	18	TC	-0.38	0.07	3.3E-07	<i>KATNAL2</i>	2.7E-02	8.3E-02	6.8E-02	3.0E-02	3.3E-05	8.3E-01	1.4E-01	2.0E-01	1.9E-01	5.1E-01
rs4890707	18	CG	-0.38	0.07	3.8E-07	<i>PIAS2</i>	2.7E-02	7.6E-02	7.0E-02	4.1E-02	3.3E-05	8.4E-01	1.4E-01	2.0E-01	1.9E-01	5.1E-01
rs509647	18	GT	-0.37	0.07	4.7E-07	<i>PIAS2</i>	2.3E-02	6.3E-02	1.3E-01	3.8E-02	3.2E-05	8.5E-01	1.5E-01	2.2E-01	1.8E-01	5.1E-01
rs2032215	18	AC	-0.37	0.07	4.7E-07	<i>PIAS2</i>	2.6E-02	7.1E-02	9.3E-02	4.6E-02	2.9E-05	8.0E-01	1.5E-01	2.0E-01	1.9E-01	4.9E-01
rs538221	18	GA	-0.37	0.07	4.8E-07	<i>PIAS2</i>	2.2E-02	6.1E-02	1.3E-01	3.7E-02	3.3E-05	8.5E-01	1.5E-01	2.4E-01	1.8E-01	5.1E-01
rs2510444	18	GT	-0.37	0.07	4.8E-07	<i>PIAS2</i>	2.2E-02	6.2E-02	1.3E-01	3.7E-02	3.3E-05	8.5E-01	1.5E-01	2.4E-01	1.8E-01	5.1E-01
rs658756	18	TC	-0.37	0.07	4.9E-07	<i>PIAS2</i>	2.6E-02	7.9E-02	9.5E-02	3.4E-02	3.2E-05	8.0E-01	1.5E-01	2.4E-01	1.9E-01	4.8E-01
rs642897	18	TG	-0.37	0.07	5.0E-07	<i>PIAS2</i>	2.8E-02	6.6E-02	9.6E-02	3.7E-02	3.2E-05	8.5E-01	1.5E-01	2.4E-01	1.9E-01	5.0E-01
rs605487	18	GC	-0.37	0.07	5.2E-07	<i>PIAS2</i>	2.7E-02	7.1E-02	9.3E-02	4.3E-02	3.2E-05	8.0E-01	1.5E-01	2.4E-01	1.9E-01	4.8E-01

rs626217	18	TG	-0.37	0.07	5.3E-07	<i>PIAS2</i>	2.6E-02	7.1E-02	9.5E-02	4.3E-02	3.2E-05	8.0E-01	1.5E-01	2.4E-01	1.9E-01	4.8E-01
rs7240239	18	TC	-0.37	0.07	5.3E-07	<i>PIAS2</i>	2.7E-02	7.1E-02	9.3E-02	4.3E-02	3.3E-05	8.0E-01	1.5E-01	2.4E-01	1.9E-01	4.8E-01
rs2156050	18	AG	-0.37	0.07	5.3E-07	<i>PIAS2</i>	2.7E-02	7.1E-02	9.3E-02	4.3E-02	3.2E-05	8.0E-01	1.5E-01	2.4E-01	1.9E-01	4.8E-01
rs10853545	18	AT	-0.37	0.07	5.4E-07	<i>PIAS2</i>	2.7E-02	7.2E-02	9.2E-02	4.3E-02	3.2E-05	8.0E-01	1.5E-01	2.4E-01	1.9E-01	4.8E-01
rs695001	18	AC	-0.37	0.07	5.4E-07	<i>PIAS2</i>	2.7E-02	6.9E-02	9.6E-02	4.3E-02	3.2E-05	8.0E-01	1.5E-01	2.4E-01	1.9E-01	4.9E-01
rs607780	18	CT	-0.37	0.07	5.8E-07	<i>PIAS2</i>	2.8E-02	6.6E-02	9.6E-02	4.3E-02	3.2E-05	8.5E-01	1.5E-01	2.4E-01	1.9E-01	4.9E-01
rs649076	18	AG	-0.37	0.07	6.3E-07	<i>PIAS2</i>	2.8E-02	6.6E-02	1.0E-01	4.7E-02	5.9E-05	8.3E-01	1.5E-01	2.5E-01	1.6E-01	5.9E-01
rs2684814	18	TC	-0.38	0.08	6.4E-07	<i>IER3IP1</i>	4.1E-01	3.4E-02	5.9E-02	7.2E-05	6.3E-04	8.5E-01	2.6E-02	6.0E-01	1.6E-01	6.2E-01
rs4890341	18	TC	-0.37	0.07	7.1E-07	<i>PIAS2</i>	2.7E-02	4.7E-02	1.3E-01	1.0E-01	8.7E-05	7.9E-01	9.8E-02	2.0E-01	1.9E-01	5.7E-01
rs557661	18	AG	-0.37	0.07	7.5E-07	<i>PIAS2</i>	2.8E-02	6.0E-02	1.3E-01	3.7E-02	4.3E-05	8.5E-01	1.8E-01	2.4E-01	1.9E-01	5.1E-01
rs4986228	18	GA	-0.38	0.08	7.7E-07	<i>KATNAL2</i>	3.2E-01	2.0E-02	5.4E-02	3.2E-03	5.3E-04	8.1E-01	1.4E-02	9.4E-01	3.7E-01	2.5E-01
rs2668771	18	GA	-0.37	0.08	1.2E-06	<i>IER3IP1</i>	8.1E-01	2.8E-02	6.0E-02	3.4E-05	9.8E-04	8.6E-01	2.2E-02	6.1E-01	1.6E-01	5.9E-01
rs577200	18	TG	-0.36	0.07	1.3E-06	<i>PIAS2</i>	3.2E-02	8.2E-02	9.1E-02	3.7E-02	3.9E-05	7.8E-01	2.6E-01	2.7E-01	2.8E-01	5.8E-01
rs2051292	18	CG	-0.36	0.07	1.4E-06	<i>PIAS2</i>	3.3E-02	8.3E-02	8.9E-02	4.1E-02	3.8E-05	7.8E-01	2.6E-01	2.6E-01	2.8E-01	5.8E-01
rs2571004	18	TA	-0.36	0.08	1.4E-06	<i>IER3IP1</i>	4.4E-01	2.5E-02	6.0E-02	2.1E-03	1.6E-03	9.2E-01	1.4E-02	6.7E-01	3.0E-01	3.2E-01
rs9961383	18	CT	-0.36	0.08	1.5E-06	<i>KATNAL2</i>	3.6E-01	3.0E-02	7.5E-02	2.8E-03	1.3E-03	9.4E-01	9.4E-03	6.6E-01	3.1E-01	3.8E-01
rs2571006	18	GT	-0.36	0.08	1.5E-06	<i>IER3IP1</i>	4.4E-01	2.5E-02	5.9E-02	2.1E-03	1.6E-03	9.2E-01	1.6E-02	6.7E-01	3.0E-01	3.2E-01
rs13381713	18	CT	-0.36	0.08	1.5E-06	<i>HDHD2</i>	3.1E-01	3.7E-02	7.5E-02	1.4E-03	1.3E-03	9.6E-01	9.8E-03	6.5E-01	4.1E-01	4.0E-01
rs1836259	18	CG	-0.36	0.08	1.5E-06	<i>IER3IP1</i>	5.0E-01	2.2E-02	5.8E-02	2.1E-03	1.6E-03	9.2E-01	1.6E-02	6.7E-01	2.8E-01	3.2E-01
rs2684819	18	CT	-0.36	0.08	1.5E-06	<i>IER3IP1</i>	4.4E-01	2.8E-02	6.0E-02	2.2E-03	1.6E-03	9.2E-01	1.4E-02	6.7E-01	3.0E-01	3.3E-01
rs1434529	18	CT	-0.36	0.08	1.6E-06	<i>IER3IP1</i>	5.0E-01	2.2E-02	5.8E-02	2.0E-03	1.6E-03	9.2E-01	1.6E-02	6.7E-01	2.9E-01	3.2E-01
rs2571021	18	CT	-0.35	0.07	1.6E-06	<i>KATNAL2</i>	2.1E-01	6.2E-02	7.9E-03	9.9E-03	5.6E-04	2.3E-01	5.2E-04	8.6E-01	5.3E-01	6.5E-01
rs4890699	18	TC	-0.35	0.07	1.7E-06	<i>KATNAL2</i>	4.4E-02	8.8E-02	7.0E-02	5.7E-02	3.4E-05	9.0E-01	1.4E-01	2.0E-01	3.5E-01	4.3E-01

rs7227700	18	TG	-0.35	0.07	1.7E-06	<i>KATNAL2</i>	4.4E-02	8.8E-02	7.0E-02	5.7E-02	3.4E-05	9.0E-01	1.4E-01	2.0E-01	3.4E-01	4.3E-01
rs10853547	18	AC	-0.35	0.07	1.8E-06	<i>KATNAL2</i>	4.5E-02	8.8E-02	7.0E-02	5.7E-02	3.4E-05	9.0E-01	1.4E-01	2.0E-01	3.4E-01	4.3E-01
rs2576036	18	CA	-0.35	0.07	1.8E-06	<i>KATNAL2</i>	2.4E-01	6.0E-02	7.9E-03	8.4E-03	5.7E-04	2.3E-01	5.2E-04	8.6E-01	5.1E-01	6.9E-01
rs7244778	18	TC	-0.35	0.07	1.8E-06	<i>KATNAL2</i>	4.4E-02	8.8E-02	7.0E-02	5.7E-02	3.7E-05	9.0E-01	1.4E-01	2.0E-01	3.5E-01	4.3E-01
rs2684833	18	CG	-0.36	0.08	1.9E-06	<i>IER3IP1</i>	4.5E-01	2.1E-02	5.9E-02	5.5E-04	2.4E-03	9.3E-01	3.5E-02	6.3E-01	3.6E-01	2.4E-01
rs2576052	18	TC	-0.36	0.08	2.0E-06	<i>IER3IP1</i>	4.6E-01	2.8E-02	6.1E-02	2.9E-04	2.3E-03	9.4E-01	3.0E-02	6.2E-01	3.9E-01	2.6E-01
rs2010834	18	AC	-0.35	0.07	2.0E-06	<i>TCEB3B</i>	4.4E-02	8.9E-02	7.2E-02	5.5E-02	4.0E-05	9.5E-01	1.4E-01	2.0E-01	3.5E-01	4.3E-01
rs2635054	18	TC	-0.36	0.08	2.3E-06	<i>HDHD2</i>	3.7E-01	3.5E-02	7.5E-02	2.7E-03	1.3E-03	9.6E-01	9.4E-03	6.6E-01	4.1E-01	3.8E-01
rs200185	20	TA	0.56	0.12	2.3E-06	<i>CRNKL1</i>	7.2E-02	6.8E-02	8.1E-03	4.8E-01	6.8E-01	7.0E-02	8.5E-01	2.4E-05	1.4E-01	7.4E-01
rs2571010	18	AG	-0.36	0.08	2.3E-06	<i>HDHD2</i>	3.7E-01	3.5E-02	7.5E-02	2.7E-03	1.3E-03	9.6E-01	9.4E-03	6.6E-01	4.1E-01	3.8E-01
rs2635052	18	CG	-0.36	0.08	2.3E-06	<i>HDHD2</i>	3.7E-01	3.5E-02	7.5E-02	2.8E-03	1.3E-03	9.6E-01	9.4E-03	6.6E-01	4.2E-01	3.8E-01
rs7239323	18	GC	-0.36	0.08	2.4E-06	<i>HDHD2</i>	3.5E-01	3.5E-02	6.7E-02	8.6E-04	2.3E-03	9.9E-01	2.2E-02	6.7E-01	4.7E-01	2.7E-01
rs9304343	18	CT	-0.36	0.08	2.4E-06	<i>IER3IP1</i>	4.5E-01	2.4E-02	5.9E-02	6.0E-04	3.6E-03	9.3E-01	3.5E-02	6.7E-01	3.6E-01	2.4E-01
rs2571005	18	GA	-0.36	0.08	2.5E-06	<i>IER3IP1</i>	4.5E-01	2.5E-02	6.0E-02	6.3E-04	2.4E-03	9.3E-01	3.5E-02	6.1E-01	3.6E-01	2.4E-01
rs2317324	18	TC	-0.36	0.08	2.5E-06	<i>KATNAL2</i>	3.7E-01	3.0E-02	7.4E-02	1.1E-03	1.9E-03	9.9E-01	2.1E-02	6.1E-01	4.1E-01	2.9E-01
rs2289133	18	TC	-0.35	0.08	2.7E-06	<i>KATNAL2</i>	3.9E-01	3.3E-02	7.5E-02	2.5E-03	2.0E-03	9.4E-01	8.2E-03	6.3E-01	3.5E-01	3.3E-01
rs2571031	18	CT	-0.35	0.07	2.7E-06	<i>KATNAL2</i>	3.0E-01	1.2E-01	6.4E-03	3.3E-03	5.1E-04	1.8E-01	1.1E-03	9.9E-01	4.1E-01	8.1E-01
rs2668772	18	TG	-0.35	0.08	2.7E-06	<i>IER3IP1</i>	8.2E-01	5.1E-02	5.4E-02	8.0E-05	8.2E-04	8.5E-01	2.6E-02	6.0E-01	1.3E-01	6.4E-01
rs233826	4	TC	-0.39	0.08	2.7E-06	<i>SLC39A8</i>	1.2E-02	3.8E-02	3.5E-02	1.5E-01	2.4E-01	9.1E-01	8.2E-01	1.4E-02	9.0E-02	3.7E-01
rs6507719	18	TA	-0.35	0.07	2.8E-06	<i>KATNAL2</i>	2.2E-01	8.2E-02	6.0E-03	1.0E-02	5.4E-04	1.6E-01	4.4E-04	8.8E-01	5.9E-01	7.0E-01
rs2571020	18	TA	-0.35	0.07	2.9E-06	<i>KATNAL2</i>	3.1E-01	1.1E-01	6.4E-03	3.2E-03	5.2E-04	1.8E-01	1.1E-03	9.7E-01	4.2E-01	8.0E-01
rs2571030	18	AG	-0.35	0.07	2.9E-06	<i>KATNAL2</i>	3.0E-01	1.1E-01	6.0E-03	4.2E-03	5.2E-04	1.8E-01	1.3E-03	9.6E-01	3.8E-01	8.3E-01
rs151402	4	GA	-0.37	0.08	2.9E-06	<i>SLC39A8</i>	3.2E-02	7.1E-02	1.5E-02	2.3E-01	2.1E-01	4.4E-01	8.7E-01	1.8E-03	3.5E-01	5.5E-01

rs2571014	18	AG	-0.36	0.08	3.0E-06	<i>HDHD2</i>	3.6E-01	4.1E-02	7.2E-02	1.1E-03	2.0E-03	9.3E-01	1.8E-02	6.7E-01	4.8E-01	3.0E-01
rs2571032	18	AT	-0.35	0.07	3.0E-06	<i>KATNAL2</i>	3.3E-01	1.2E-01	6.4E-03	3.2E-03	5.1E-04	1.8E-01	1.1E-03	9.9E-01	4.2E-01	8.0E-01
rs16954921	18	CA	-0.35	0.08	3.0E-06	<i>KATNAL2</i>	4.1E-01	2.9E-02	8.0E-02	7.0E-03	7.9E-04	9.0E-01	1.1E-02	7.1E-01	4.5E-01	3.5E-01
rs2571007	18	GA	-0.35	0.08	3.0E-06	<i>HDHD2</i>	3.7E-01	3.0E-02	7.4E-02	1.1E-03	1.9E-03	9.9E-01	2.1E-02	6.1E-01	4.9E-01	2.9E-01
rs2247021	18	TG	-0.35	0.07	3.1E-06	<i>KATNAL2</i>	3.3E-01	1.2E-01	6.4E-03	3.2E-03	5.8E-04	1.8E-01	1.1E-03	9.9E-01	4.2E-01	8.1E-01
rs2668761	18	CT	-0.35	0.08	3.4E-06	<i>HDHD2</i>	4.4E-01	3.9E-02	7.5E-02	1.5E-03	2.2E-03	9.6E-01	9.8E-03	6.4E-01	4.2E-01	4.0E-01
rs1512235	18	AG	-0.35	0.08	3.4E-06	<i>IER3IP1</i>	8.0E-01	3.0E-02	6.6E-02	7.1E-04	6.2E-04	8.6E-01	3.2E-02	7.5E-01	2.1E-01	7.2E-01
rs2247221	18	TC	-0.34	0.07	3.6E-06	<i>KATNAL2</i>	3.3E-01	1.2E-01	6.4E-03	3.6E-03	5.7E-04	1.8E-01	1.1E-03	9.7E-01	4.2E-01	8.0E-01
rs2668767	18	TC	-0.35	0.08	3.7E-06	<i>IER3IP1</i>	7.9E-01	3.1E-02	6.6E-02	6.8E-04	6.2E-04	9.1E-01	3.2E-02	7.5E-01	2.1E-01	7.2E-01
rs2668764	18	CT	-0.35	0.08	3.7E-06	<i>IER3IP1</i>	7.8E-01	3.2E-02	6.7E-02	6.6E-04	6.4E-04	9.6E-01	3.0E-02	7.8E-01	2.1E-01	7.2E-01
rs2684853	18	GA	-0.35	0.08	3.7E-06	<i>IER3IP1</i>	7.8E-01	3.2E-02	6.7E-02	6.6E-04	6.3E-04	9.6E-01	3.0E-02	7.8E-01	2.1E-01	7.2E-01
rs2356798	2	TG	-0.35	0.08	3.9E-06	<i>CYBRD1</i>	1.2E-02	4.4E-02	6.6E-02	2.7E-01	2.6E-02	3.6E-01	8.1E-01	2.3E-01	3.8E-02	8.8E-01
rs151403	4	AG	-0.36	0.08	4.4E-06	<i>SLC39A8</i>	3.4E-02	7.3E-02	1.5E-02	2.2E-01	3.2E-01	4.4E-01	8.4E-01	2.2E-03	3.5E-01	5.5E-01
rs17311358	6	AG	-0.84	0.18	4.8E-06	<i>KIAA0319</i>	5.4E-01	3.6E-03	7.6E-01	1.3E-01	2.0E-01	5.5E-03	1.2E-01	5.1E-01	9.6E-02	6.6E-02
rs151399	4	CT	-0.40	0.09	5.2E-06	<i>SLC39A8</i>	2.3E-02	5.5E-02	1.2E-02	1.3E-01	2.8E-01	9.7E-01	7.8E-01	1.3E-02	1.0E-01	3.8E-01
rs151397	4	GT	-0.40	0.09	5.2E-06	<i>SLC39A8</i>	2.1E-02	6.8E-02	1.2E-02	1.4E-01	2.9E-01	9.7E-01	8.3E-01	1.4E-02	9.0E-02	3.8E-01
rs151398	4	CG	-0.40	0.09	5.6E-06	<i>SLC39A8</i>	2.0E-02	6.6E-02	1.2E-02	1.4E-01	2.5E-01	9.7E-01	7.4E-01	1.6E-02	8.7E-02	3.8E-01
rs460670	4	TG	-0.40	0.09	5.7E-06	<i>SLC39A8</i>	3.0E-02	5.4E-02	8.9E-03	1.3E-01	2.5E-01	9.8E-01	9.3E-01	1.5E-02	1.7E-01	3.8E-01
rs151396	4	GA	-0.40	0.09	5.8E-06	<i>SLC39A8</i>	2.1E-02	6.8E-02	1.2E-02	1.4E-01	3.0E-01	9.7E-01	8.3E-01	1.7E-02	9.1E-02	3.8E-01
rs458318	4	TA	-0.40	0.09	6.0E-06	<i>SLC39A8</i>	2.9E-02	6.1E-02	8.9E-03	1.3E-01	2.5E-01	9.8E-01	9.3E-01	1.5E-02	1.7E-01	3.8E-01
rs464114	4	AC	-0.40	0.09	6.0E-06	<i>SLC39A8</i>	2.9E-02	6.1E-02	8.9E-03	1.3E-01	2.5E-01	9.8E-01	9.3E-01	1.5E-02	1.7E-01	3.8E-01
rs151372	4	CT	-0.39	0.09	6.1E-06	<i>SLC39A8</i>	2.5E-02	5.9E-02	9.0E-03	1.4E-01	2.5E-01	9.8E-01	8.7E-01	1.5E-02	1.7E-01	3.8E-01
rs151395	4	TC	-0.39	0.09	6.2E-06	<i>SLC39A8</i>	2.1E-02	6.8E-02	1.2E-02	1.4E-01	2.5E-01	9.7E-01	8.3E-01	1.6E-02	1.3E-01	3.8E-01

rs2684838	18	TG	-0.34	0.07	6.2E-06	<i>IER3IP1</i>	2.5E-01	6.3E-02	7.9E-02	1.9E-03	1.1E-03	9.0E-01	2.0E-02	3.3E-01	4.2E-01	2.9E-01
rs367659	4	TC	-0.39	0.09	6.3E-06	<i>SLC39A8</i>	3.0E-02	6.1E-02	8.9E-03	1.3E-01	2.5E-01	9.8E-01	9.3E-01	1.5E-02	1.7E-01	3.8E-01
rs2060416	18	GC	0.34	0.08	6.3E-06	<i>KATNAL2</i>	2.7E-01	1.0E-01	1.1E-02	1.7E-02	5.0E-04	2.1E-01	9.3E-04	8.9E-01	4.7E-01	5.7E-01
rs170870	4	TA	-0.39	0.09	6.4E-06	<i>SLC39A8</i>	2.1E-02	6.9E-02	1.2E-02	1.4E-01	2.5E-01	9.7E-01	8.3E-01	1.6E-02	1.4E-01	3.8E-01
rs1398217	18	GC	-0.34	0.08	6.4E-06	<i>IER3IP1</i>	2.7E-01	5.6E-02	7.8E-02	6.3E-04	1.4E-03	7.9E-01	4.1E-02	3.5E-01	4.1E-01	2.4E-01
rs151368	4	AT	-0.39	0.09	6.5E-06	<i>SLC39A8</i>	2.5E-02	6.3E-02	9.3E-03	1.4E-01	2.5E-01	9.7E-01	8.7E-01	1.5E-02	1.7E-01	3.8E-01
rs6832846	4	GA	-0.39	0.09	6.5E-06	<i>SLC39A8</i>	2.5E-02	6.3E-02	9.3E-03	1.4E-01	2.5E-01	9.7E-01	8.7E-01	1.5E-02	1.7E-01	3.8E-01
rs10178585	2	AG	-0.35	0.08	6.6E-06	<i>SLC9A2</i>	4.0E-02	1.8E-01	6.2E-01	3.8E-01	8.5E-01	5.9E-03	1.1E-01	1.4E-02	7.1E-02	1.3E-01
rs16889092	6	GC	0.62	0.14	6.6E-06	<i>DCDC2</i>	8.2E-02	1.6E-01	4.6E-01	6.6E-02	2.4E-01	2.9E-02	1.5E-02	7.7E-01	7.2E-02	4.6E-01
rs151408	4	CT	-0.40	0.09	7.0E-06	<i>SLC39A8</i>	3.7E-02	6.1E-02	6.9E-03	1.1E-01	2.4E-01	9.8E-01	9.3E-01	1.5E-02	1.7E-01	5.4E-01
rs151393	4	AG	-0.39	0.09	7.0E-06	<i>SLC39A8</i>	2.1E-02	7.1E-02	1.1E-02	1.4E-01	2.7E-01	9.7E-01	8.3E-01	1.7E-02	1.4E-01	3.8E-01
rs9705	4	TC	-0.39	0.09	7.1E-06	<i>SLC39A8</i>	2.1E-02	7.1E-02	1.1E-02	1.3E-01	3.0E-01	9.7E-01	8.3E-01	1.6E-02	1.4E-01	3.8E-01
rs9331	4	GA	-0.39	0.09	7.3E-06	<i>SLC39A8</i>	2.1E-02	7.1E-02	1.1E-02	1.3E-01	3.0E-01	9.7E-01	8.3E-01	1.6E-02	1.4E-01	3.8E-01
rs463661	4	TC	-0.39	0.09	7.4E-06	<i>SLC39A8</i>	2.8E-02	6.1E-02	8.9E-03	1.4E-01	3.0E-01	9.8E-01	9.3E-01	1.5E-02	1.7E-01	3.8E-01
rs200180	20	CG	0.53	0.12	7.4E-06	<i>C20orf26</i>	7.8E-02	6.4E-02	3.1E-02	4.6E-01	7.8E-01	6.8E-02	8.3E-01	2.8E-05	9.1E-02	4.1E-01
rs151369	4	TC	-0.39	0.09	7.5E-06	<i>SLC39A8</i>	2.5E-02	6.1E-02	9.1E-03	1.5E-01	3.0E-01	9.8E-01	8.7E-01	1.5E-02	1.7E-01	3.8E-01
rs2576038	18	GC	-0.44	0.10	7.6E-06	<i>KATNAL2</i>			6.4E-03	3.2E-03	5.1E-04	1.8E-01	1.1E-03	9.7E-01		8.0E-01
rs2137287	18	AG	-0.34	0.08	7.9E-06	<i>IER3IP1</i>	3.9E-01	6.1E-02	6.3E-02	1.6E-04	1.8E-03	7.0E-01	6.8E-02	4.5E-01	3.5E-01	3.5E-01
rs207420	2	CT	-0.74	0.17	8.0E-06	<i>XDH</i>	2.6E-02	8.9E-02	2.0E-01	1.2E-02	9.8E-01	3.8E-02	2.7E-01	1.8E-01	2.9E-01	3.5E-01
rs2270412	17	AG	0.45	0.10	8.3E-06	<i>RPA1</i>		2.4E-03	5.0E-03	7.4E-01	1.8E-01	5.4E-01	8.4E-02	3.1E-02	1.8E-03	1.8E-01
rs2137289	18	GA	-0.34	0.08	8.5E-06	<i>IER3IP1</i>	4.2E-01	6.1E-02	6.4E-02	1.6E-04	1.8E-03	7.0E-01	6.8E-02	4.5E-01	3.4E-01	3.5E-01
rs2137288	18	AG	-0.33	0.08	8.9E-06	<i>IER3IP1</i>	3.9E-01	6.1E-02	6.4E-02	1.6E-04	2.6E-03	7.0E-01	6.8E-02	4.6E-01	3.5E-01	3.5E-01

rs233814	4	TC	-0.38	0.09	9.3E-06	<i>SLC39A8</i>	6.9E-02	3.5E-03	4.9E-02	2.0E-01	2.1E-01	8.0E-01	9.3E-01	1.0E-01	1.3E-01	5.0E-01
rs2881301	5	TG	0.34	0.08	9.4E-06	<i>C5orf21</i>	1.2E-01	6.4E-03	1.9E-02	5.4E-01	2.2E-01	1.1E-01	8.4E-02	3.9E-01	2.4E-01	2.6E-01

See for notes in Supplementary Table 2

Supplementary Table 7. Top 20 genes associated with the Five-factor Model of personality in the GWAS NEO consortium

Neuroticism		Extraversion		Openness to Experience		Agreeableness		Conscientiousness		
Gene	P-value	Gene	P-value	Gene	P-value	Gene	P-value	Gene	P-value	
1	<i>PTPLA</i>	2.60E-05	<i>AHCYL1</i>	5.60E-05	<i>MOGAT1</i>	1.00E-06	<i>WSB1</i>	2.80E-05	<i>TCEB3B</i>	1.00E-07
2	<i>TXNDC12</i>	3.30E-05	<i>FAM40A</i>	9.60E-05	<i>FARSB</i>	2.00E-06	<i>AMD1</i>	6.50E-05	<i>KATNAL2</i>	2.00E-07
3	<i>KTH12</i>	5.00E-05	<i>ICAM5</i>	0.000164	<i>TMEM67</i>	0.000301	<i>CDC2L6</i>	0.000158	<i>TCEB3C-1</i>	2.00E-07
4	<i>CEP78</i>	0.000111	<i>GLP-1</i>	0.00022	<i>TNRC6C</i>	0.000352	<i>BIVM</i>	0.000289	<i>TCEB3CL-3</i>	2.00E-07
5	<i>ZNF511</i>	0.000117	<i>LIN7C</i>	0.000249	<i>SEMA3G</i>	0.000573	<i>KDELC1</i>	0.000434	<i>TCEB3C-2</i>	3.00E-07
6	<i>BTF3L4</i>	0.000179	<i>ATP2A3</i>	0.000253	<i>NISCH</i>	0.000632	<i>RPH3AL</i>	0.000475	<i>TCEB3CL-2</i>	3.00E-07
7	<i>TMEM155</i>	0.000324	<i>ICAM4</i>	0.000258	<i>PHF7</i>	0.000666	<i>C13orf27</i>	0.000592	<i>TCEB3CL-1</i>	4.00E-07
8	<i>CALY</i>	0.000333	<i>MYOZ1</i>	0.000279	<i>TNNC1</i>	0.000688	<i>HBG2</i>	0.000616	<i>PIAS2</i>	1.80E-06
9	<i>GAB4</i>	0.000365	<i>ICAM1</i>	0.000312	<i>OR10J5</i>	0.000777	<i>ERCC5</i>	0.000691	<i>HDHD2</i>	3.60E-06
10	<i>DHDH</i>	0.000409	<i>ALX3</i>	0.000397	<i>SFRS3</i>	0.000797	<i>HBG1</i>	0.00072	<i>IER3IP1</i>	6.00E-06
11	<i>TNFRSF1A</i>	0.000427	<i>FDX1L</i>	0.00043	<i>OR5K2</i>	0.000893	<i>DHX15</i>	0.000799	<i>SLC39A8</i>	1.90E-05
12	<i>PLEKHG6</i>	0.000512	<i>TRIP13</i>	0.000436	<i>KHDRBS2</i>	0.001037	<i>FSD2</i>	0.000896	<i>CTXN1</i>	9.30E-05

13	<i>OR10H2</i>	0.000542	<i>C4orf32</i>	0.000679	<i>FAM76B</i>	0.00116	<i>SUCNR1</i>	0.001083	<i>FKBP5</i>	0.000125
14	<i>RPUSD4</i>	0.000552	<i>MACF1</i>	0.00074	<i>PRIM2</i>	0.001195	<i>HBD</i>	0.001109	<i>SNAPC2</i>	0.000125
15	<i>OR10H3</i>	0.000609	<i>BRD9</i>	0.000789	<i>ZBTB25</i>	0.001233	<i>LOC400566</i>	0.00112	<i>TIMM44</i>	0.00013
16	<i>TUBGCP2</i>	0.000652	<i>C5orf48</i>	0.000861	<i>CEP57</i>	0.00124	<i>C1orf116</i>	0.001304	<i>ELAVL1</i>	0.000136
17	<i>PRAP1</i>	0.000662	<i>ECT2</i>	0.000979	<i>RAD17</i>	0.001253	<i>HBB</i>	0.001391	<i>TMEM126B</i>	0.000167
18	<i>CYP4F12</i>	0.000955	<i>SYNPO2L</i>	0.001065	<i>STAB1</i>	0.001286	<i>STK35</i>	0.00145	<i>MAP2K7</i>	0.000214
19	<i>FAM118B</i>	0.001065	<i>RAVER1</i>	0.00113	<i>CHRNA9</i>	0.001305	<i>MGC24039</i>	0.00151	<i>FAM40A</i>	0.000247
20	<i>ADAM8</i>	0.00107	<i>AADACL1</i>	0.00116	<i>TAF9</i>	0.00145	<i>CCDC70</i>	0.00164	<i>ASB17</i>	0.000287

In bold: genes that are significant after correction for multiple testing across genes ($0.05/20.000=2.5*10^{-6}$)

Supplementary Table 8. Association of SNPs for Openness to Experience and Conscientiousness in the individual replication samples that were genome-wide significant in the discovery stage

SNP	Alleles ^a	NTR+ study		Germany study		EGPUT2 study		Cilento study		ERF2 study	
		Effect (s.e.)	P value	Effect (s.e.)	P value	Effect (s.e.)	P value	Effect (s.e.)	P value	Effect (s.e.)	P value
<i>Openness to Experience</i>											
rs1477268		-0.13 (0.22)	0.56	-0.18 (0.43)	0.68	0.57 (0.59)	0.33	-0.18 (0.53)	0.74	1.06 (0.56)	0.06
rs2032794 ^b	CT	-0.13 (0.22)	0.55	-0.18 (0.43)	0.68	0.57 (0.59)	0.33	-0.04 (0.53)	0.94	1.07 (0.56)	0.05
<i>Conscientiousness</i>											
rs2576037	TC	-0.11 (0.16)	0.50	-0.08 (0.39)	0.86	-1.29 (0.50)	0.01	-0.37 (0.39)	0.34	-0.34 (0.46)	0.46

^a First allele is the minor allele, for which the effect is reported.

^b For the EGPUT2 and Germany samples, this SNP was not available and rs1477268 was used as a proxy.

Supplementary Table 9. Association of top SNPs reported in the previous GWA study for the Five Factor Model of personality¹ in the GWASNEO Consortium

SNP	Gene	Chr	Position	Alleles	P value	Pooled P	Pooled P
					SardiNIA ^a	value all	value
						samples	SardiNIA excluded
Neuroticism							
rs6047641	-	20	21739854	TG	6.5 x 10 ⁻⁶	0.22	0.85
rs1159275	-	1	193915865	TG	8.7 x 10 ⁻⁶	0.18	0.82
rs7329003	-	13	106571549	AG	9.0 x 10 ⁻⁶	0.01	0.65
rs2039528	<i>PTPRF</i>	1	43733117	AG	1.6 x 10 ⁻⁵	0.13	0.81
rs1849710	<i>TMEM16D</i>	12	100046209	CG	2.3 x 10 ⁻⁵	0.03	0.52
rs362584	<i>SNAP25</i>	20	10202475	AG	5.0 x 10 ⁻⁵	0.87	0.17

Extraversion							
rs644148	<i>ZNF180</i>	19	49662775	TG	8.0×10^{-6}	0.62	0.15
rs17635977	<i>CDH23</i>	10	73016270	AC	1.1×10^{-5}	0.23	0.64
rs4783307	<i>CDH13</i>	16	81634135	TG	1.7×10^{-5}	0.02	0.82
rs904208	-	5	143451120	AC	1.8×10^{-5}	0.67	0.45
rs2813838	-	7	24115817	CG	2.1×10^{-5}	0.002	0.10
rs8056579	<i>CDH13</i>	16	81380925	AG	2.5×10^{-5}	0.08	0.65
rs928114	<i>DAPK1</i>	9	89368626	CG	3.8×10^{-5}	0.0001	0.01
Openness to Experience							
rs644148	<i>ZNF180</i>	19	49662775	TG	9.4×10^{-7}	0.97	0.11
rs6610953	<i>FUNDC1</i>	X	44156440	AG	1.7×10^{-6}	-	-
rs17819128	<i>CREBL2</i>	12	12652926	CG	3.0×10^{-6}	0.21	0.80
rs9291420	<i>MIST</i>	4	10101985	CG	3.4×10^{-6}	0.90	0.11

rs1037791	<i>TSPAN13</i>	7	16791187	AG	3.9×10^{-6}	0.90	0.21
rs586281	-	1	184466107	AG	6.2×10^{-6}	0.14	0.68
Agreeableness							
rs1380251	-	1	219635798	AG	1.6×10^{-6}	0.85	0.26
rs2540226	<i>THUMPD2</i>	2	39812564	AC	3.9×10^{-6}	0.07	0.42
rs6832769	<i>CLOCK</i>	4	55992951	AG	8.7×10^{-6}	0.20	0.66
rs602041	-	11	59535439	CG	1.3×10^{-5}	0.04	0.57
rs9940706	<i>CDH13</i>	16	82256207	AC	1.5×10^{-5}	0.01	0.14
rs7637878	<i>BFSP2</i>	3	134677146	AG	1.9×10^{-5}	0.03	0.22
Conscientiousness							
rs11626232	<i>SMOC1</i>	14	69557149	TC	4.8×10^{-6}	0.08	0.64
rs10953555	<i>LAMB1</i>	7	107368582	TC	1.2×10^{-5}	0.20	0.84
rs17006841 ^b	<i>MRPS18C</i>	4		TC	1.6×10^{-5}	0.07 ^c	0.07 ^c

rs2835731	<i>DYRK1A</i>	21	37718598	TC	2.8×10^{-5}	0.12	0.73
rs13070781	<i>EIF4E3</i>	3	71836676	AG	2.8×10^{-5}	0.32	0.38
rs10945200	<i>COL19A1</i>	6	70948461	AG	3.1×10^{-5}	0.03	0.28

^a Reported in Terracciano et al. ¹ and based on the 240-item NEO-PI-R

^b This SNP was merged into rs3182340

^c This SNP was only successfully typed or imputed in the SardiNIA and SAGE samples

- Not available

Physical position is based on build 36 (hg18).

Supplementary Table 10. Association of top SNPs reported in the two previous GWA studies^{2,3} for Neuroticism in the GWASNEO Consortium

SNP	Gene	Chr	Position	Alleles	Pooled P value
Top SNPs reported in Shifman et al.²					
rs322239	<i>PTN</i>	7	136607147	AC	0.48
rs4841017	-	8	8614503	TC	0.69
rs17385253	-	1	34667596	TC	0.35
rs9329165	-	8	8614052	AG	0.68
rs10483573	-	14	46932227	CG	0.62
rs10504830	<i>CNBD1</i>	8	88448321	AG	0.02
rs13290746	-	9	34858377	TC	0.55
rs9959800	-	18	52115138	AT	0.36
rs10797812	-	1	181251220	AG	0.27
rs4875610	<i>CSMD1</i>	8	3165318	AC	0.03

rs2123315	-	4	18575667	TC	0.84
rs702543	<i>PDE4D</i>	5	58878531	TC	0.73
rs7666238	-	4	142315213	AG	0.58
rs9431663	<i>TRIM67</i>	1	229380844	AG	0.55
rs7594674	-	2	67133464	AG	0.68
rs873989	<i>DAB1</i>	1	58329186	TC	0.18
rs401897	<i>C20orf32</i>	20	54463165	TC	0.65
rs201997	<i>ADAM18</i>	8	39703325	CG	0.80
rs1452788	<i>TCF4</i>	18	51268302	AG	0.34

Top SNPs reported in Van den Oord et al.³

rs1959813	<i>MAMDC1</i>	14	46465110	TC	0.51
rs3007105	<i>MAMDC1</i>	14	46437366	TC	0.58
rs12883384	<i>MAMDC1</i>	14	46473434	AC	0.5
rs7151262	<i>MAMDC1</i>	14	46473927	CG	0.5

rs2349775	<i>NXPPI</i>	7	8684605	AG	0.88
rs2705293	<i>AK127771</i>	8	138988127	TC	0.11
rs1877332	<i>AK127771</i>	8	138950317	TC	0.37
rs2705287	<i>AK127771</i>	8	138989754	AT	0.15
rs979148	<i>AK127771</i>	8	138952654	AG	0.39
rs2066331	<i>PBX1</i>	1	163284059	CG	0.0049
rs4656685	<i>F5</i>	1	167750468	TC	0.14
rs17837764	<i>LOC641948</i>	7	156946444	AG	0.16
rs3766110	<i>F5</i>	1	167781807	AC	0.23
rs6994270	<i>SAMD12</i>	8	119417676	CG	0.13
rs10502247	<i>TECTA</i>	11	120504152	TC	0.76
rs6486322	<i>PLEKHA7</i>	11	16900496	TC	0.54
rs619656	<i>LOC131572</i>	3	29080655	AG	0.31
rs7943517	<i>PLEKHA7</i>	11	16904254	TC	0.48
rs9332600	<i>F5</i>	1	167779537	TC	0.08

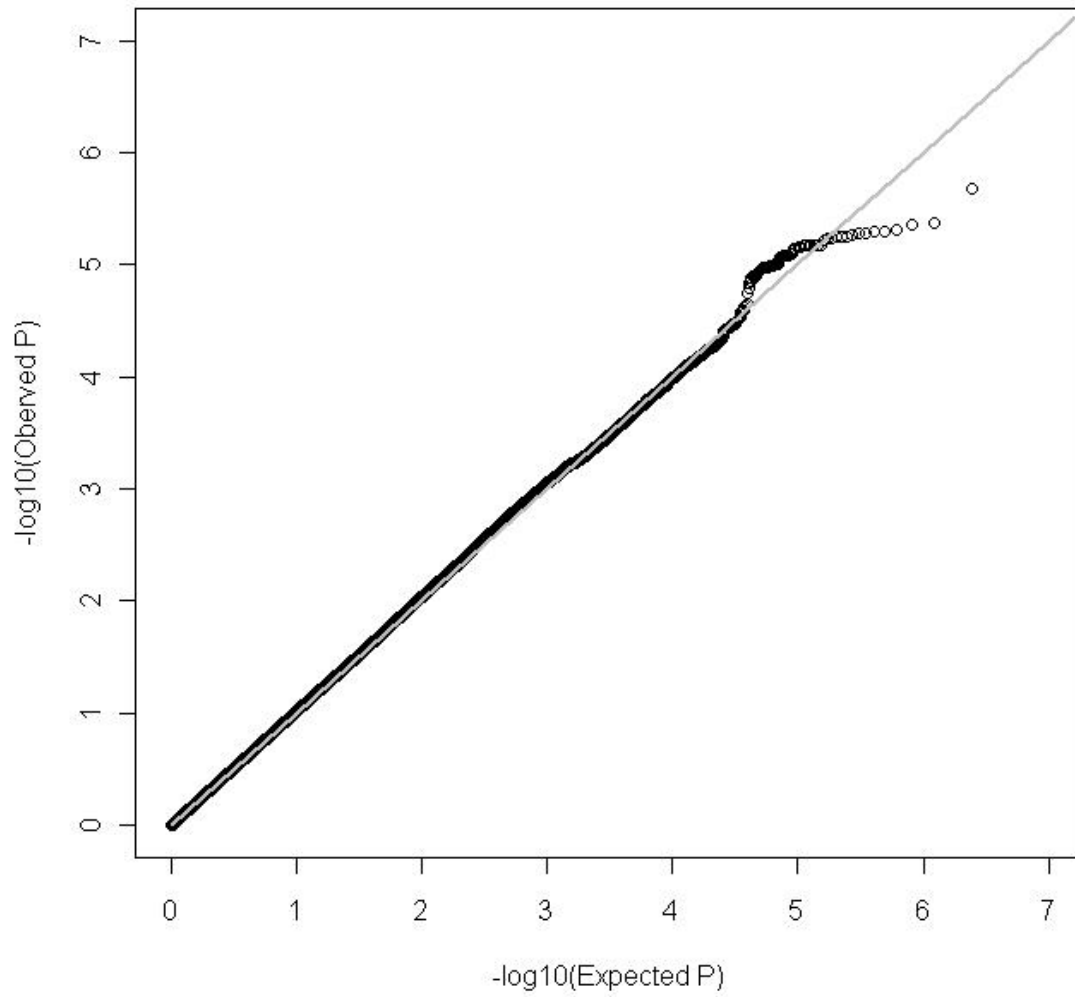
rs974793	<i>F5</i>	1	167745278	TC	0.14
rs10495711	<i>FLJ21820</i>	2	20923411	TC	0.68
rs6959265	<i>HIPK2</i>	7	138920510	TC	0.9
rs3735196	<i>HIPK2</i>	7	138935891	CG	0.88
rs2697318	<i>ANKRD44</i>	2	197801155	AC	0.0097
rs10265025	<i>FLJ13195</i>	7	67009664	AG	0.81

- Not available

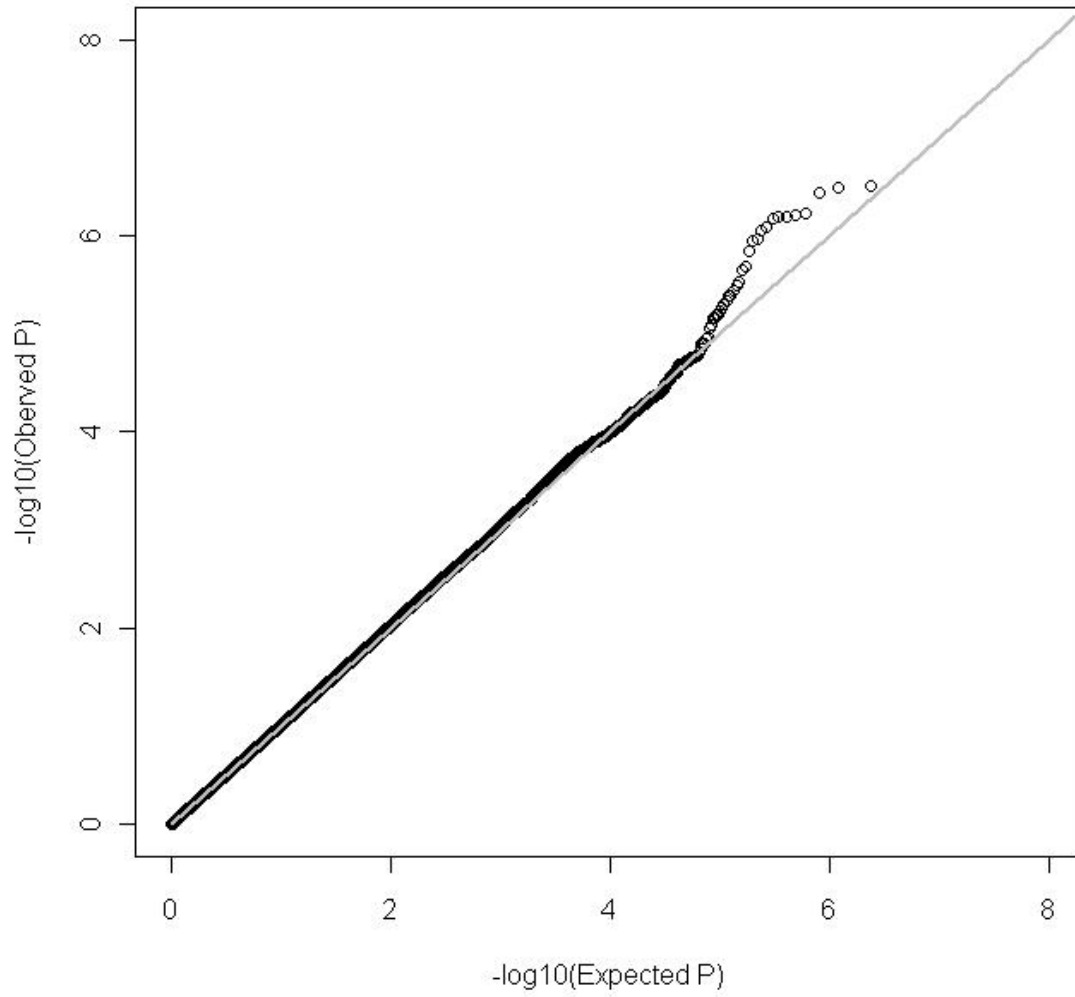
Physical position is based on build 36 (hg18).

Supplementary Figure 1. Quantile-Quantile plots for the 5 main dimensions of the Five-Factor Model of personality.

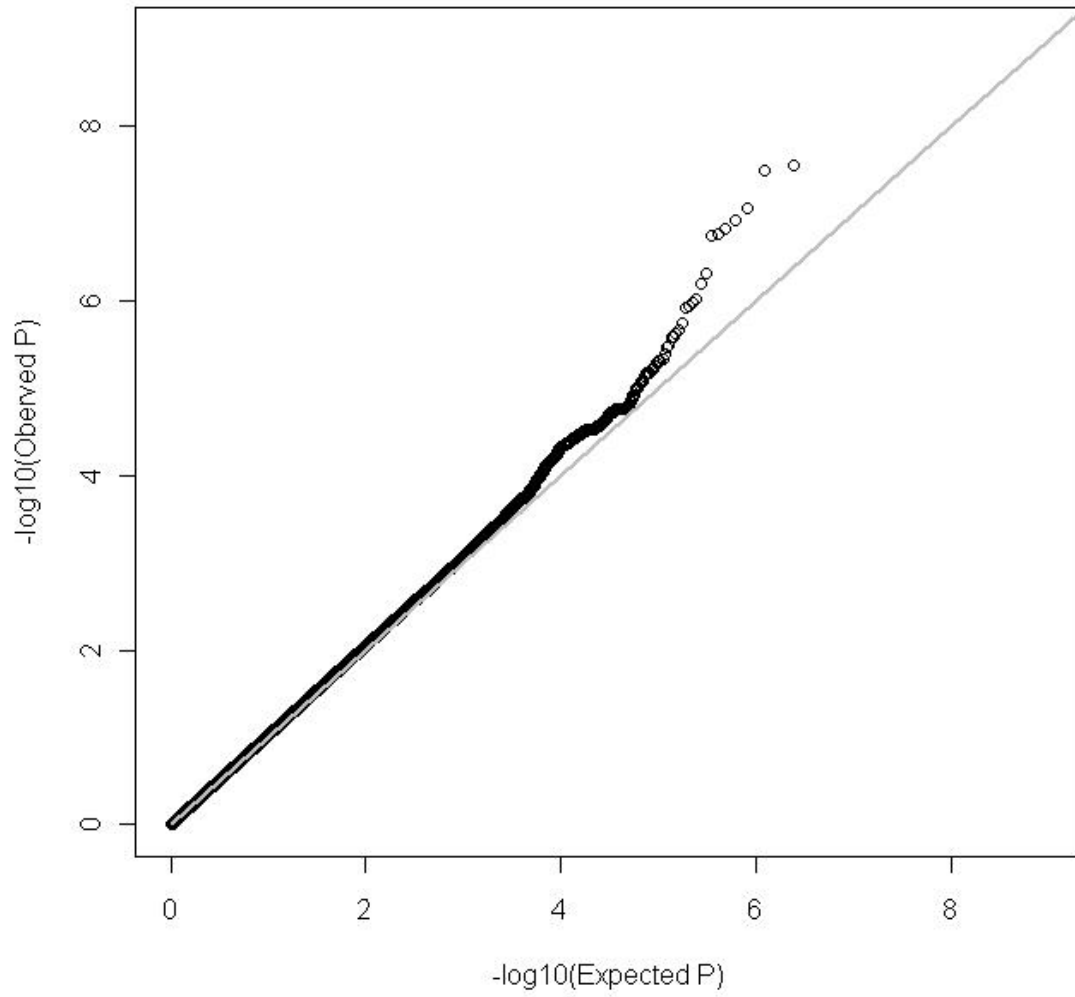
a. Neuroticism



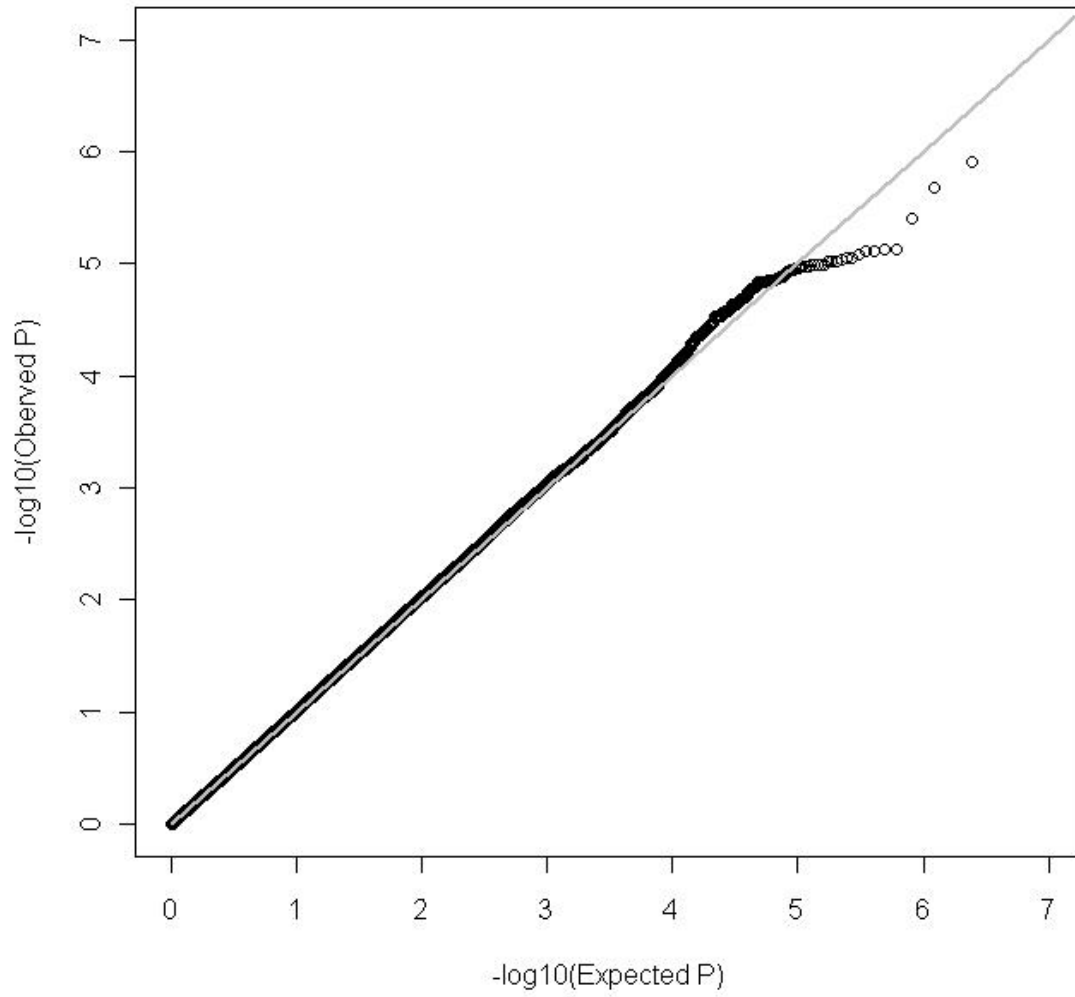
b. Extraversion



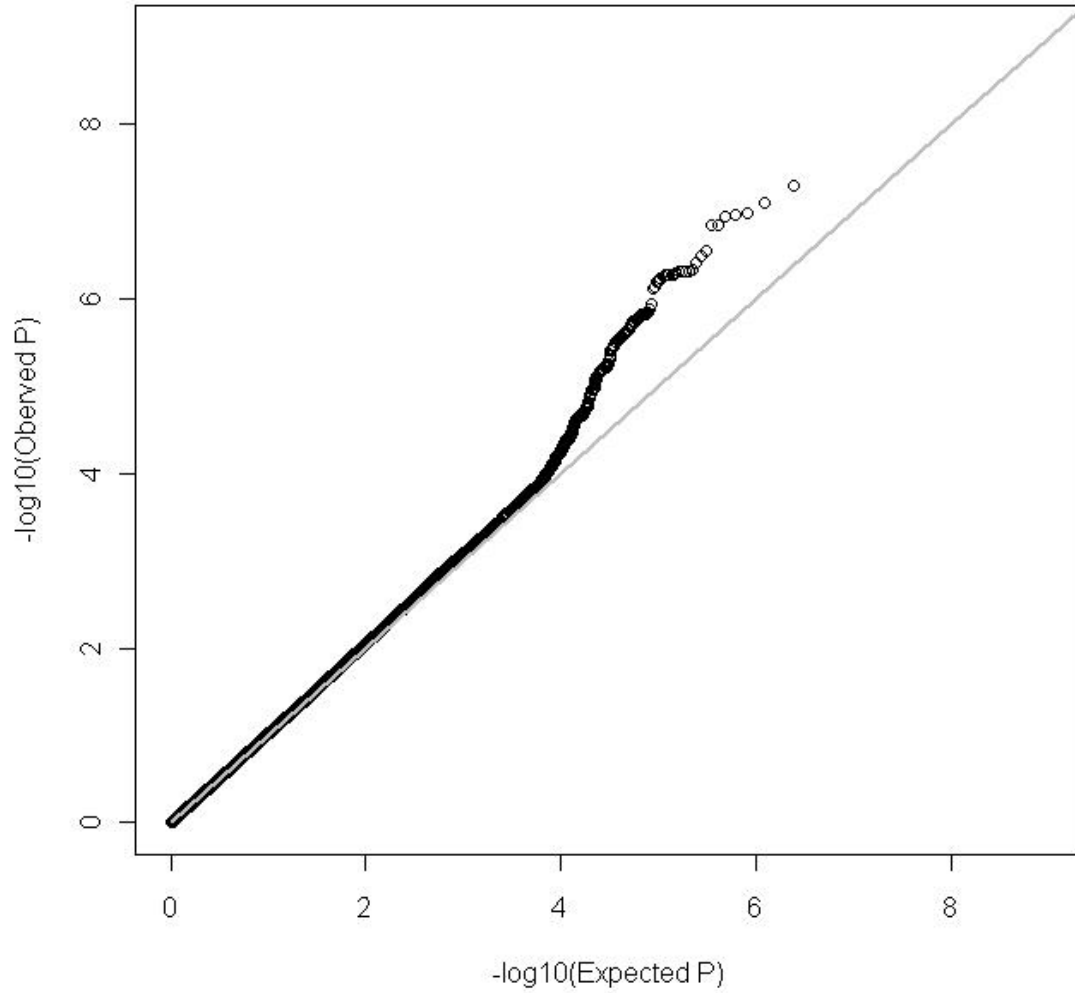
c. Openness to Experience



d. Agreeableness



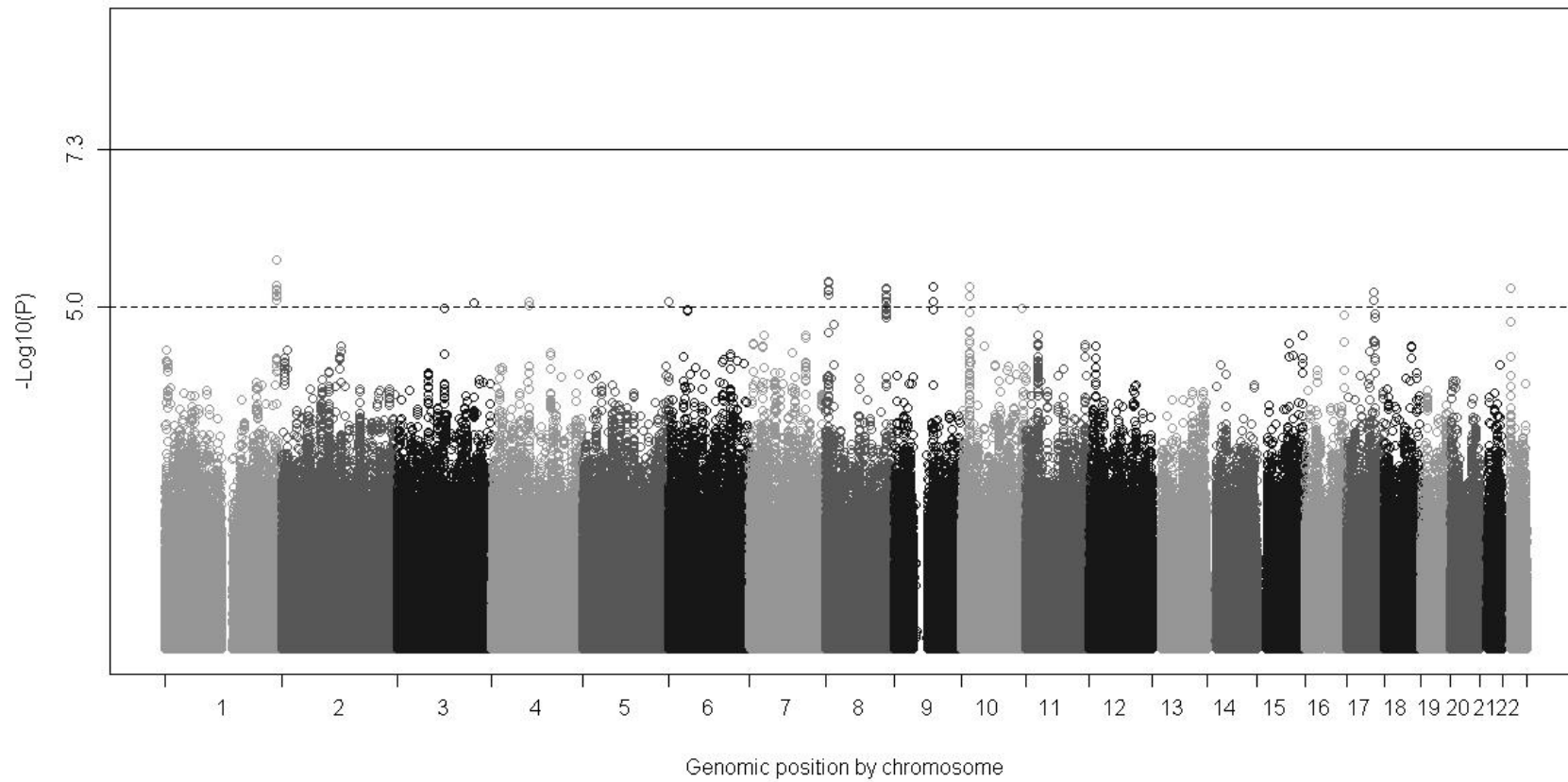
e. Conscientiousness



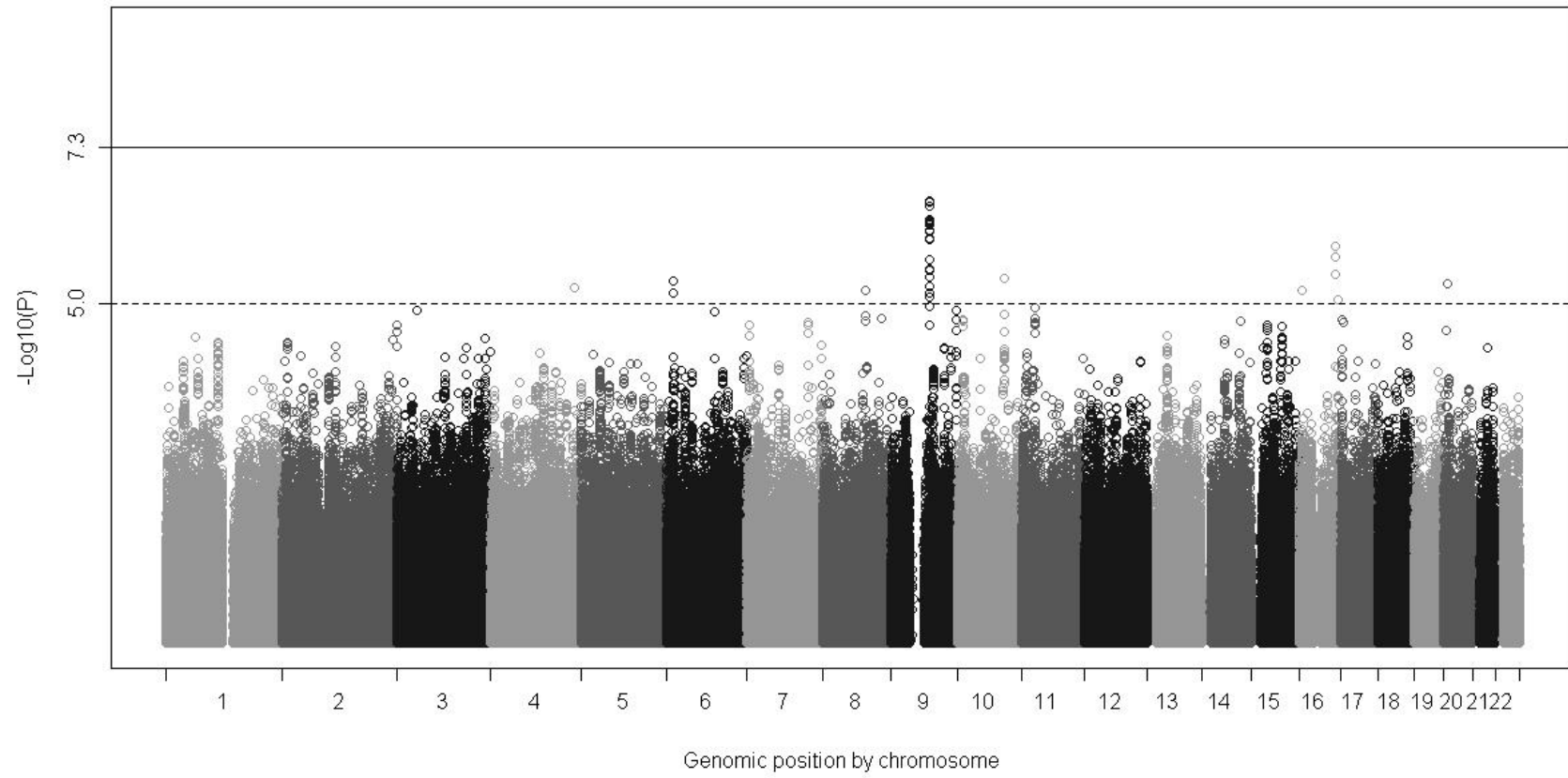
The observed $-\log_{10}$ pooled P values (y-axis) are plotted against the expected $-\log_{10}$ pooled P values under the null hypothesis of no association (x-axis).

Supplementary Figure 2. Manhattan plots for the 5 main dimensions of the Five-Factor Model of personality.

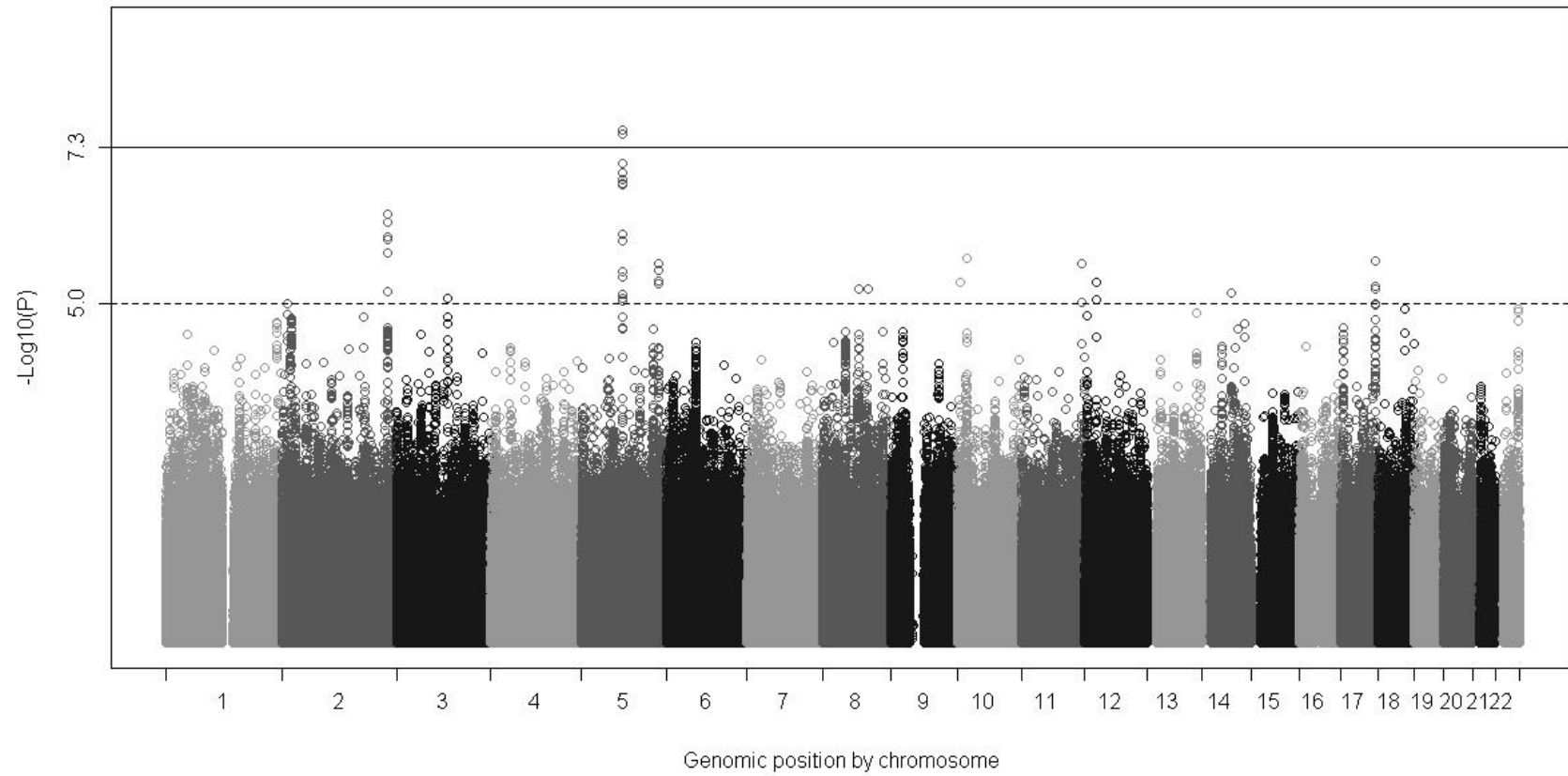
a. Neuroticism



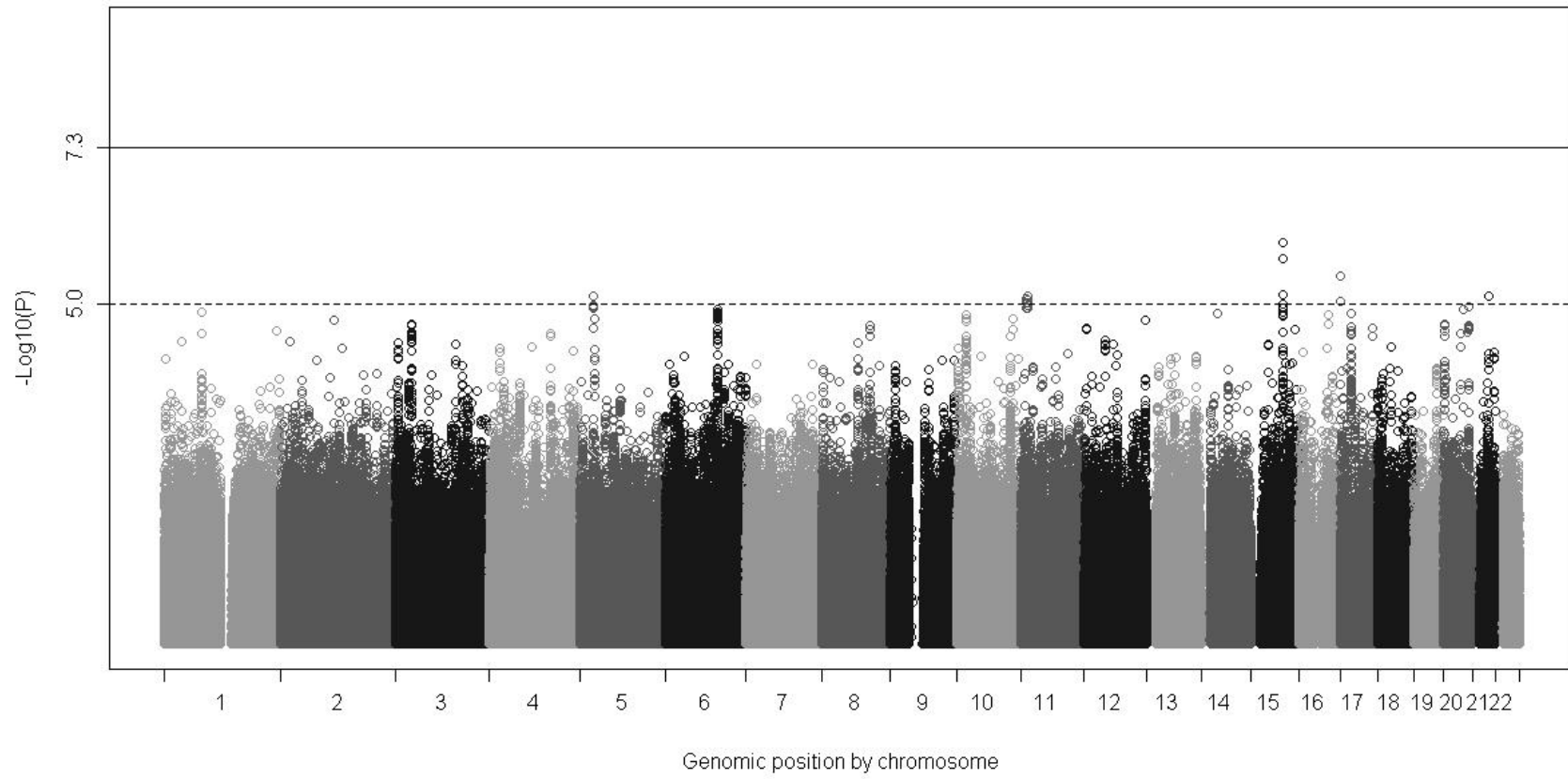
b. Extraversion



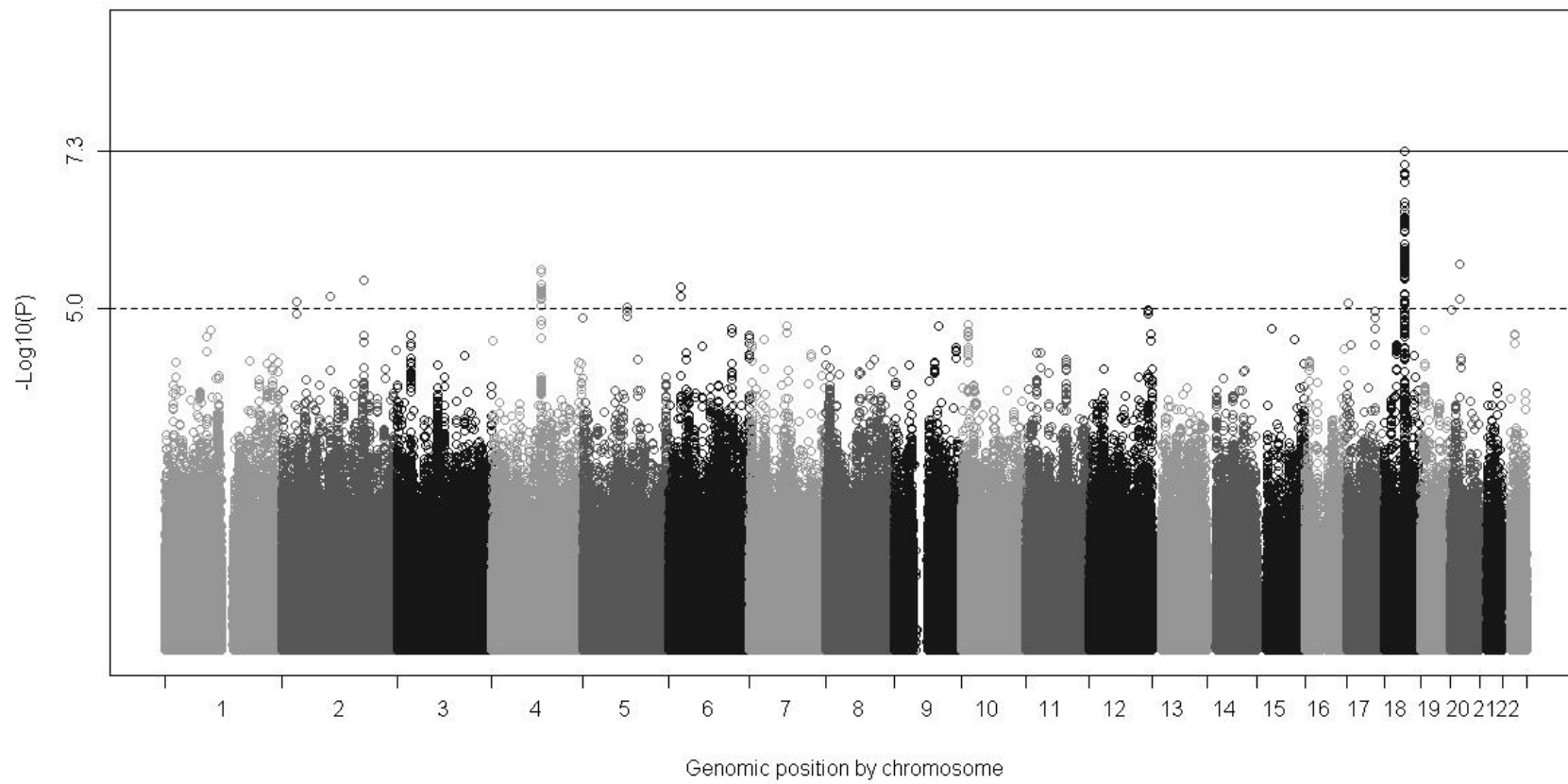
c. Openness to Experience



d. Agreeableness



e. Conscientiousness



The $-\log_{10}$ pooled P values (y-axis) are plotted against the chromosomal positions (x-axis). Solid line indicates the genome-wide significance threshold ($-\log_{10}(5 \times 10^{-8}) = 7.3$). The dashed line indicates the threshold for suggestive significance ($-\log_{10}(1 \times 10^{-5}) = 5$).

References

- 1 Terracciano A, Sanna S, Uda M, Deiana B, Usala G, Busonero F *et al.* Genome-wide association scan for five major dimensions of personality. *Mol Psychiatry* 2010; **15**(6) :647-656.
- 2 Shifman S, Bhomra A, Smiley S, Wray NR, James MR, Martin NG *et al.* A whole genome association study of neuroticism using DNA pooling. *Mol Psychiatry* 2008; **13**(3) :302-312.
- 3 van den Oord EJ, Kuo PH, Hartmann AM, Webb BT, Moller HJ, Hettema JM *et al.* Genomewide association analysis followed by a replication study implicates a novel candidate gene for neuroticism. *Arch Gen Psychiatry* 2008; **65**(9) :1062-1071.