

Genomewide Association Study of Nicotine Dependence in American Populations: Identification of Novel Risk Loci in Both African- and European-Americans

Supplement 1

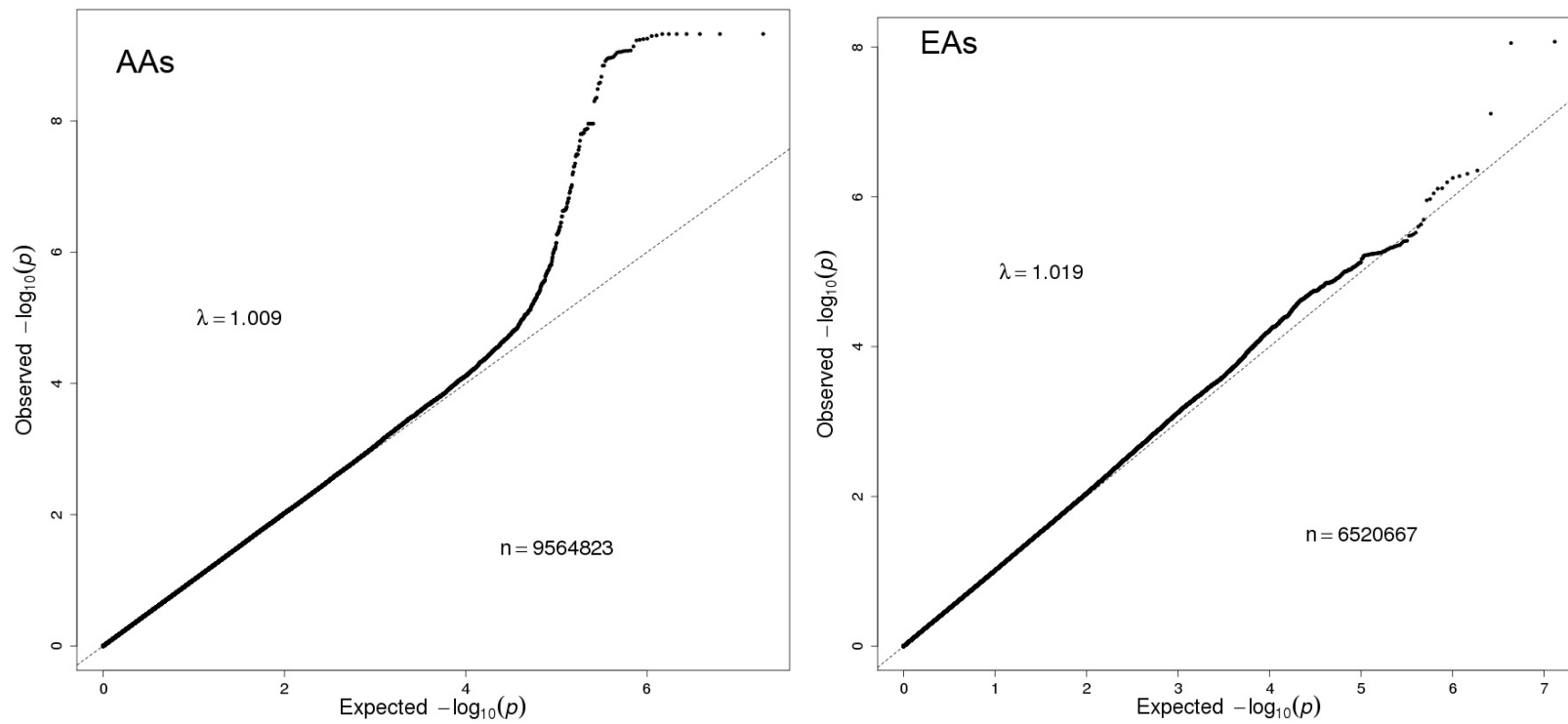


Figure S1. QQ plots. AAs, African Americans; EAs, European Americans.

Table S1. Sample characteristics.

Sample	African Americans				European Americans			
	#	Male (%)	Mean Age	Mean FTND Score (SD)	#	Male (%)	Mean Age	Mean FTND Score (SD)
Yale-Penn	2602	54.6	42.1	4.29 (2.23)	2114	58.9	37.7	5.43 (2.22)
SAGE	927	51.2	39.9	3.98 (2.82)	2003	44.2	37.9	3.10 (3.27)

FTND, Fagerström Test for Nicotine Dependence.

Table S2. Chromosome 15 *CHRN* SNPs showing p -values $<10^{-4}$.

Chr	Marker	Gene	Meta AA <i>p</i>	Meta EA <i>p</i>	Meta All <i>p</i>	Yale-Penn AA <i>p</i>	Yale-Penn EA <i>p</i>	SAGE AA <i>p</i>	SAGE EA <i>p</i>
15	rs58365910	NA	7.08E-03	3.17E-04	7.58E-06	4.27E-03	1.17E-02	8.46E-01	6.15E-03
15	rs72740955	NA	1.24E-02	2.78E-04	1.02E-05	2.13E-02	9.39E-03	3.36E-01	7.54E-03
15	rs2036527	NA	8.76E-04	2.83E-04	8.48E-07	2.49E-03	9.23E-03	1.61E-01	7.72E-03
15	rs55853698	<i>CHRNA5</i>	1.70E-02	2.87E-04	1.45E-05	1.37E-01	1.11E-02	6.52E-03	6.46E-03
15	rs55781567	<i>CHRNA5</i>	9.65E-03	6.69E-04	2.08E-05	5.90E-02	1.83E-02	3.87E-02	8.89E-03
15	rs190065944	<i>CHRNA5</i>	8.40E-03	1.89E-03	4.83E-05	1.46E-02	5.29E-02	3.22E-01	6.57E-03
15	rs11633958	<i>CHRNA5</i>	4.21E-04	1.94E-04	6.78E-07	5.96E-03	9.58E-03	7.50E-03	4.43E-03
15	rs7172118	<i>CHRNA5</i>	1.63E-02	3.41E-04	1.61E-05	1.83E-02	1.28E-02	5.54E-01	6.44E-03
15	rs17486195	<i>CHRNA5</i>	4.68E-02	3.67E-04	4.95E-05	6.82E-02	1.37E-02	4.32E-01	6.39E-03
15	rs140330585	<i>CHRNA5</i>	2.51E-02	3.73E-04	2.68E-05	4.15E-02	1.42E-02	3.47E-01	5.93E-03
15	rs17486278	<i>CHRNA5</i>	1.64E-03	4.11E-04	2.28E-06	4.32E-03	1.47E-02	1.86E-01	6.71E-03
15	rs72740964	<i>CHRNA5</i>	7.98E-04	2.23E-04	1.10E-06	6.07E-03	1.11E-02	2.83E-02	4.74E-03
15	rs7180002	<i>CHRNA5</i>	2.15E-02	4.74E-04	2.87E-05	2.31E-02	1.49E-02	5.92E-01	7.94E-03
15	rs200776369	NA	9.57E-04	4.76E-04	2.27E-06	4.15E-03	2.22E-02	8.38E-02	3.88E-03
15	rs56390833	<i>CHRNA5</i>	2.43E-02	4.34E-04	2.95E-05	2.65E-02	1.47E-02	5.94E-01	6.51E-03
15	rs951266	<i>CHRNA5</i>	2.37E-02	4.53E-04	3.01E-05	2.57E-02	1.46E-02	5.96E-01	7.83E-03
15	rs16969968	<i>CHRNA5</i>	2.47E-04	2.57E-04	7.38E-07	4.49E-03	1.00E-02	5.18E-03	6.60E-03
15	rs8192482	<i>CHRNA5</i>	2.77E-04	2.37E-04	7.22E-07	5.00E-03	9.76E-03	5.44E-03	5.90E-03
15	rs4887067	<i>CHRNA5</i>	2.77E-04	2.26E-04	6.84E-07	4.97E-03	9.74E-03	5.45E-03	5.92E-03
15	rs1051730	<i>CHRNA3</i>	1.03E-02	4.00E-04	1.25E-05	5.38E-03	1.43E-02	9.36E-01	6.66E-03
15	rs1317286	<i>CHRNA3</i>	8.94E-03	2.31E-04	7.13E-06	1.49E-02	7.80E-03	3.42E-01	7.64E-03
15	rs55676755	<i>CHRNA3</i>	1.09E-02	3.68E-04	1.22E-05	2.06E-02	1.21E-02	2.95E-01	7.81E-03

Chr	Marker	Gene	Meta AA <i>p</i>	Meta EA <i>p</i>	Meta All <i>p</i>	Yale-Penn AA <i>p</i>	Yale-Penn EA <i>p</i>	SAGE AA <i>p</i>	SAGE EA <i>p</i>
15	rs56077333	<i>CHRNA3</i>	5.89E-02	2.90E-04	6.12E-05	7.03E-02	1.00E-02	5.65E-01	7.11E-03
15	rs141518190	<i>CHRNA3</i>	1.66E-02	3.25E-04	1.61E-05	6.56E-02	1.06E-02	7.88E-02	7.29E-03
15	rs147499554	<i>CHRNA3</i>	1.66E-02	3.25E-04	1.61E-05	6.56E-02	1.06E-02	7.89E-02	7.29E-03
15	rs138544659	<i>CHRNA3</i>	1.08E-02	6.24E-04	1.99E-05	4.92E-02	1.58E-02	6.41E-02	9.96E-03
15	rs147144681	<i>CHRNA3</i>	5.49E-02	5.25E-04	8.74E-05	7.10E-02	1.25E-02	4.99E-01	1.14E-02
15	rs114205691	<i>CHRNA3</i>	5.67E-02	3.19E-04	6.35E-05	1.08E-01	1.02E-02	2.79E-01	8.26E-03
15	rs146009840	<i>CHRNA3</i>	1.36E-03	3.58E-04	2.73E-06	8.78E-03	1.46E-02	4.20E-02	5.08E-03
15	rs8040868	<i>CHRNA3</i>	9.58E-03	1.08E-03	3.35E-05	3.12E-02	8.75E-03	1.31E-01	4.90E-02
15	rs4243084	<i>CHRNA3</i>	4.61E-03	7.95E-04	1.13E-05	5.27E-03	2.44E-02	4.65E-01	7.45E-03
15	rs149959208 ^a	<i>CHRNA3</i>	1.28E-02	8.79E-04	3.37E-05	2.91E-02	2.70E-02	2.09E-01	7.02E-03
15	rs71448806 ^b	<i>CHRNA3</i>	2.19E-03	3.52E-03	2.34E-05	2.02E-02	3.27E-02	2.47E-02	3.88E-02
15	rs55958997	NA	4.69E-03	2.66E-03	3.70E-05	2.71E-02	3.17E-02	4.86E-02	2.68E-02
15	rs2869548	<i>CHRNA4</i>	2.81E-02	1.43E-04	1.14E-05	8.81E-02	4.47E-03	1.04E-01	8.95E-03
15	rs17487223	<i>CHRNA4</i>	1.11E-02	4.13E-04	1.37E-05	4.81E-02	1.01E-02	5.89E-02	1.17E-02
15	rs72743158	<i>CHRNA4</i>	1.18E-02	3.09E-04	1.26E-05	4.18E-02	6.09E-03	9.58E-02	1.60E-02
15	rs67426328	NA	1.58E-01	7.96E-05	3.69E-05	2.48E-01	5.75E-04	3.77E-01	5.24E-02
15	rs3813567	NA	7.05E-03	1.69E-03	3.69E-05	2.54E-03	3.76E-03	9.05E-01	1.91E-01
15	rs17487514	NA	1.41E-01	9.62E-05	3.43E-05	3.01E-01	4.09E-05	1.74E-01	3.81E-01
15	rs6495314	NA	1.36E-02	8.01E-04	3.38E-05	2.54E-02	7.37E-04	2.90E-01	3.17E-01
15	rs199970818	NA	8.84E-01	2.18E-05	9.63E-04	8.78E-01	3.54E-04	9.88E-01	2.18E-02

^a rs149959208 effect allele is TGCGCGGGGCAGGGCGACGGGCA.

^b rs71448806 reference allele is CGCGGGCGG.

AA, African American; EA, European American.

Table S3. Detailed results (spreadsheet). Available in Supplement 2 as an Excel file.