

## Supplementary Online Content

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**eTable 1.** Sex-Stratified Haplotype Analyses of the VAND Sample

**eTable 2.** Sex-Stratified Analyses of the VAANX Sample

**eTable 1. Sex-Stratified Haplotype Analyses of the VAND Sample**

Marker Combination	Global P Value <sup>a</sup>	Haplotype	Case Frequency	Control Frequency	OR	Haplotype P Value <sup>a</sup>
<b>Smoking Initiation</b>						
<b>Men</b>						
5-8	.14	1-1	0.60	0.62	0.92	.89
		1-2	0.19	0.17	1.17	.76
		2-1	0.15	0.11	1.46	.23
		2-2	0.06	0.11	0.53	.08
7-9-10	.83	1-1-1	0.62	0.59	1.15	.29
		1-1-2	0.09	0.08	1.13	.58
		1-2-1	0.01	0.01	1.23	.85
		1-2-2	0.07	0.09	0.71	.16
		2-1-1	0.16	0.17	0.87	.46
		2-1-2	0.04	0.04	1.07	.97
		2-2-2	0.00	0.01	0.40	.29
5-7-9-10	.82	1-1-1-1	0.62	0.59	1.15	.33
		1-1-1-2	0.09	0.09	1.08	.68
		1-1-2-1	0.01	0.01	0.95	.89
		1-1-2-2	0.07	0.09	0.73	.25
		2-2-1-1	0.15	0.17	0.86	.48
		2-2-1-2	0.04	0.04	1.09	.95
		2-2-2-2	0.01	0.01	1.06	.23
<b>Women</b>						
5-8	.007 <sup>a</sup>	1-1	0.56	0.58	0.95	.90
		1-2	0.30	0.18	2.01	.006 <sup>a</sup>
		2-1	0.09	0.17	0.45	.004 <sup>a</sup>
		2-2	0.05	0.08	0.62	.30
7-9-10	.13	1-1-1	0.70	0.58	1.64	.02 <sup>a</sup>
		1-1-2	0.08	0.10	0.80	.50
		1-2-1	0.01	0.00	>20.00	.64
		1-2-2	0.07	0.08	0.86	.94
		2-1-1	0.10	0.18	0.52	.03 <sup>a</sup>
		2-1-2	0.01	0.04	0.36	.06
		2-2-2	0.02	0.01	2.52	.89
5-7-9-10	.12	1-1-1-1	0.70	0.59	1.62	.02 <sup>a</sup>
		1-1-1-2	0.08	0.10	0.80	.49
		1-1-2-1	0.01	0.00	>20.00	.65
		1-1-2-2	0.06	0.08	0.84	.94
		2-2-1-1	0.10	0.18	0.52	.03 <sup>a</sup>
		2-2-1-2	0.02	0.04	0.40	.07
		2-2-2-2	0.03	0.01	2.28	.64
<b>Nicotine Dependence</b>						
<b>Men</b>						
5-8	.40	1-1	0.63	0.56	1.32	.18
		1-2	0.18	0.20	0.86	.75
		2-1	0.12	0.18	0.65	.15

		2-2	0.07	0.06	1.19	.86
7-9-10	.29	1-1-1	0.62	0.63	0.97	.85
		1-1-2	0.10	0.09	1.14	.74
		1-2-1	0.03	0.00	6.29	.04 <sup>a</sup>
		1-2-2	0.08	0.05	1.55	.30
		2-1-1	0.14	0.17	0.81	.18
		2-1-2	0.03	0.05	0.69	.33
		2-2-2	0.00	0.01	0.00	.60
5-7-9-10	.37	1-1-1-1	0.62	0.62	0.99	.84
		1-1-1-2	0.10	0.09	1.19	.67
		1-1-2-1	0.02	0.00	4.93	.10
		1-1-2-2	0.08	0.06	1.36	.31
		2-2-1-1	0.14	0.17	0.81	.24
		2-2-1-2	0.03	0.05	0.65	.31
		2-2-2-2	0.00	0.00	0.55	.79
Women						
5-8	<.001 <sup>a</sup>	1-1	0.67	0.42	2.85	<.001 <sup>a</sup>
		1-2	0.23	0.40	0.46	.006 <sup>a</sup>
		2-1	0.06	0.12	0.52	.19
		2-2	0.03	0.07	0.43	.03 <sup>a</sup>
7-9-10	.002 <sup>a</sup>	1-1-1	0.72	0.68	1.22	.44
		1-1-2	0.12	0.02	6.93	<.001 <sup>a</sup>
		1-2-1	0.00	0.02	0.00	.04 <sup>a</sup>
		1-2-2	0.06	0.08	0.70	.38
		2-1-1	0.06	0.15	0.40	.02 <sup>a</sup>
		2-1-2	0.03	0.01	2.24	.23
		2-2-2	0.01	0.04	0.33	.12
5-7-9-10	.001 <sup>a</sup>	1-1-1-1	0.73	0.68	1.25	.33
		1-1-1-2	0.12	0.02	7.99	<.001 <sup>a</sup>
		1-1-2-1	0.00	0.02	0.00	.04 <sup>a</sup>
		1-1-2-2	0.06	0.08	0.72	.44
		2-2-1-1	0.06	0.15	0.37	.01 <sup>a</sup>
		2-2-1-2	0.03	0.01	1.93	.31
		2-2-2-2	0.01	0.04	0.30	.09

Abbreviations: OR, odds ratio; VAND, Virginia Study of Nicotine Dependence.

<sup>a</sup> $P < .05$ .

**eTable 2. Sex-Stratified Analyses of the VAANX Sample**

Marker Combination	Global <i>P</i> Value <sup>a</sup>	Haplotype	Case Frequency	Control Frequency	OR	Haplotype <i>P</i> Value
<b>Smoking Initiation</b>						
<b>Men</b>						
7-9-10	.64	1-1-1	0.64	0.65	0.96	.77
		1-1-2	0.09	0.09	1.01	.70
		1-2-1	0.01	0.01	1.08	.89
		1-2-2	0.08	0.06	1.44	.24
		2-1-1	0.13	0.15	0.89	.45
		2-1-2	0.03	0.02	1.34	.71
		2-2-2	0.01	0.02	0.36	.38
5-7-9-10	.86	1-1-1-1	0.64	0.64	0.97	.81
		1-1-1-2	0.09	0.09	1.02	.72
		1-1-2-1	0.01	0.01	0.86	.63
		1-1-2-2	0.08	0.06	1.31	.31
		1-2-1-1	0.00	0.00	0.86	.22
		1-2-2-1	0.00	0.00	0.86	.22
		1-2-2-2	0.00	0.00	0.86	.20
		2-1-1-1	0.01	0.01	0.86	.92
		2-1-1-2	0.00	0.00	0.86	>.99
		2-2-1-1	0.13	0.14	0.89	.49
		2-2-1-2	0.03	0.03	1.27	.68
		2-2-2-2	0.01	0.01	0.58	.74
<b>Women</b>						
7-9-10	.12	1-1-1	0.60	0.65	0.81	.19
		1-1-2	0.11	0.09	1.22	.93
		1-2-1	0.01	0.01	0.68	.58
		1-2-2	0.05	0.09	0.54	.17
		2-1-1	0.19	0.12	1.72	.008 <sup>a</sup>
		2-1-2	0.01	0.03	0.43	.90
		2-2-1	0.01	0.01	1.11	.80
		2-2-2	0.02	0.01	4.41	.35
5-7-9-10	.02 <sup>a</sup>	1-1-1-1	0.58	0.64	0.78	.14
		1-1-1-2	0.11	0.09	1.22	.96
		1-1-2-1	0.01	0.01	0.67	.62
		1-1-2-2	0.04	0.09	0.48	.11
		1-2-1-1	0.03	0.00	7.56	.02 <sup>a</sup>
		1-2-2-1	0.00	0.01	0.67	.74
		1-2-2-2	0.00	0.01	0.67	.36
		2-1-1-1	0.02	0.01	1.60	.44
		2-1-1-2	0.00	0.00	0.67	.20
		2-2-1-1	0.17	0.11	1.66	.02 <sup>a</sup>
		2-2-1-2	0.01	0.03	0.48	.94
		2-2-2-2	0.02	0.00	>20.00	.26
<b>FTND</b>						
<b>Men</b>						

9-10	.60	1-1	0.79	NA	NA	.38
		1-2	0.13	NA	NA	.42
		2-1	0.01	NA	NA	>.99
		2-2	0.08	NA	NA	.72
7-9-10	.56	1-1-1	0.65	NA	NA	.97
		1-1-2	0.10	NA	NA	.55
		1-2-1	0.01	NA	NA	>.99
		1-2-2	0.07	NA	NA	.74
		2-1-1	0.13	NA	NA	.31
		2-1-2	0.02	NA	NA	.46
		2-2-2	0.01	NA	NA	>.99
5-7-9-10	.50	1-1-1-1	0.64	NA	NA	.84
		1-1-1-2	0.11	NA	NA	.90
		1-1-2-1	0.01	NA	NA	>.99
		1-1-2-2	0.07	NA	NA	.49
		2-1-1-1	0.01	NA	NA	.96
		2-2-1-1	0.13	NA	NA	.37
		2-2-1-2	0.02	NA	NA	.74
		2-2-2-2	0.01	NA	NA	>.99
Women						
9-10	.01 <sup>a</sup>	1-1	0.79	NA	NA	.06
		1-2	0.13	NA	NA	.002 <sup>a</sup>
		2-1	0.01	NA	NA	<.001 <sup>a</sup>
		2-2	0.07	NA	NA	.97
7-9-10	.14	1-1-1	0.60	NA	NA	.23
		1-1-2	0.11	NA	NA	.009 <sup>a</sup>
		1-2-1	0.00	NA	NA	>.99
		1-2-2	0.04	NA	NA	.59
		2-1-1	0.19	NA	NA	.54
		2-1-2	0.02	NA	NA	<.001 <sup>a</sup>
		2-2-1	0.01	NA	NA	<.001 <sup>a</sup>
		2-2-2	0.03	NA	NA	.35
5-7-9-10	.04 <sup>a</sup>	1-1-1-1	0.59	NA	NA	.26
		1-1-1-2	0.10	NA	NA	.01 <sup>a</sup>
		1-1-2-1	0.01	NA	NA	>.99
		1-1-2-2	0.04	NA	NA	.87
		1-2-1-1	0.02	NA	NA	.32
		2-1-1-1	0.02	NA	NA	.49
		2-1-1-2	0.01	NA	NA	<.001 <sup>a</sup>
		2-2-1-1	0.16	NA	NA	.51
		2-2-1-2	0.02	NA	NA	<.001 <sup>a</sup>
		2-2-2-1	0.01	NA	NA	.005 <sup>a</sup>
		2-2-2-2	0.02	NA	NA	.58

Abbreviations: FTND, Fagerström Test for Nicotine Dependence; NA, not applicable; OR, odds ratio; VAANX, Virginia Study of Anxiety and Neuroticism.

<sup>a</sup> $P < .05$ .