Supplemental Table 1. Gene Variant Functions and Carrier Frequencies by Race

Gene and SNP	Gene Function/ Variant Function	European Americans (205)		African Americans (205)	
Nucleotide Designation		Carrier Frequency (n)	Proportion Missing (n) ^c	Carrier Frequency (n)	Proportion Missing (n) ^c
COMT Val158Met (rs4680)	Metabolism of estrogens and neurotransmitters/Decreased enzyme activity	0.663 (136) ^a	0.078 (16)	0.473 (97) ^a p<.001 ^d	0.166 (34)
CYP3A4*1 B (rs2740574)	Metabolism and hydroxylation of estrogens, activation of tobacco-related toxins/ <i>Increased metabolic activity</i>	0.07 (14) ^a	0.008 (16)	0.693 (142) ^b p<.001 ^d	0.122 (25)
CYP1B1*3 (Leu432Val, rs1056836)	Metabolism and hydroxylation of estrogens, highly expressed in the ovary, induced by tobacco and involved in metabolic activation of smoking toxins/Increased metabolic activity	0.620 (127) ^a	0.008 (16)	0.839 (172) ^a p<.001 ^d	0.102 (21)
CYP1B1*4 (Asn452Ser, rs1800440)	Metabolism and hydroxylation of estrogens/ <i>Increased metabolic activity</i>	0.263 (54) ^a	0.008 (17)	0.102 (21) ^a p<.001 ^d	0.102 (21)

 $^{^{\}mathrm{a}}$ Indicates no deviation from Hardy-Weinberg proportions at the P<.05 level

bIndicates deviation from Hardy-Weinberg proportions cProportions of participants for whom genotyping could not be performed or testing could not be performed due to insufficient data

 $^{{}^{\}mathrm{d}}P$ value for difference in carrier frequency across race