

Supplementary Table 1. Genotype frequency of SNPs in European American (EA) and African American (AA) controls.

SNP Information					Genotype Frequency				
Gene	SNP	Min	Maj	Geno	EA		AA		P value ^a
					N	%	N	%	
<i>COMT</i>	rs4633	A	G	AA	169	26.0	77	10.4	1.32E-20
				AG	312	48.1	316	42.6	
				GG	168	25.9	348	47.0	
<i>CYP17A1</i>	rs10883782	G	A	AA	425	65.9	595	80.3	3.11E-09
				GA	194	30.1	136	18.4	
				GG	26	4.0	10	1.3	
<i>CYP17A1</i>	rs12413409	A	G	AA	6	0.9	1	0.1	0.0001
				AG	109	16.8	76	10.2	
				GG	532	82.2	665	89.6	
<i>CYP17A1</i>	rs2486758	G	A	AA	414	63.8	646	86.8	9.52E-23
				GA	211	32.5	90	12.1	
				GG	24	3.7	8	1.1	
<i>CYP17A1</i>	rs6162	A	G	AA	118	18.2	110	14.8	0.10
				AG	318	49.1	324	43.6	
				GG	211	32.6	309	41.6	
<i>CYP17A1</i>	rs619824	A	C	AA	128	19.8	299	40.2	5.30E-23
				CA	311	48.0	344	46.3	
				CC	209	32.3	100	13.5	
<i>CYP19A1</i>	rs10046	G	A	AA	182	28.0	44	5.9	4.73E-51
				AG	330	50.8	274	36.9	
				GG	137	21.1	425	57.2	
<i>CYP19A1</i>	rs11575899	D	I	DD	78	12.0	87	11.7	0.69
				DI	292	45.0	319	43.0	
				II	279	43.0	336	45.3	
<i>CYP19A1</i>	rs2445765	G	C	CC	434	66.9	412	55.5	2.30E-05
				GC	191	29.4	278	37.4	
				GG	24	3.7	53	7.1	
<i>CYP19A1</i>	rs4775936	A	G	AA	142	21.9	21	2.8	1.08E-69
				AG	330	50.9	179	24.1	
				GG	176	27.2	544	73.1	
<i>CYP19A1</i>	rs700518	A	G	AA	152	23.4	477	64.2	3.38E-59
				GA	335	51.6	235	31.6	
				GG	162	25.0	31	4.2	
<i>CYP19A1</i>	rs700519	A	G	AA	1	0.2	24	3.2	1.02E-28
				AG	42	6.5	204	27.4	
				GG	605	93.4	516	69.4	
<i>CYP19A1</i>	rs727479	C	A	AA	277	42.7	465	62.5	6.00E-15

				CA	291	44.9	247	33.2	
				CC	80	12.3	32	4.3	
<i>CYP19A1</i>	rs749292	A	G	AA	133	20.5	175	23.5	0.40
				AG	332	51.2	367	49.3	
				GG	184	28.4	202	27.2	
<i>CYP1A1</i>	rs1378942	C	A	AA	243	37.6	11	1.5	2.18E-157
				AC	325	50.2	117	15.7	
				CC	79	12.2	616	82.8	
<i>CYP1A1</i>	rs1799814	A	C	AA	9	1.4	0	0.0	1.92E-17
				AC	73	11.3	8	1.1	
				CC	566	87.3	735	98.9	
<i>CYP1A2</i>	rs2470893	A	G	AA	42	6.5	3	0.4	4.03E-51
				AG	248	38.2	65	8.7	
				GG	359	55.3	675	90.8	
<i>CYP1A2</i>	rs2472297	A	G	AA	18	2.8	2	0.3	2.77E-26
				AG	176	27.2	55	7.4	
				GG	454	70.1	687	92.3	
<i>CYP1A2</i>	rs2472304	G	A	AA	231	35.9	11	1.5	5.28E-144
				AG	326	50.6	132	17.8	
				GG	87	13.5	598	80.7	
<i>CYP1A2</i>	rs762551	C	A	AA	306	47.2	251	33.8	6.77E-12
				CA	297	45.8	354	47.6	
				CC	45	6.9	138	18.6	
<i>CYP1B1</i>	rs1056836	C	G	CC	120	18.5	418	56.2	9.87E-59
				GC	333	51.4	287	38.6	
				GG	195	30.1	39	5.2	
<i>CYP1B1</i>	rs1800440	G	A	AA	447	69.3	699	94.5	6.55E-34
				GA	175	27.1	37	5.0	
				GG	23	3.6	4	0.5	
<i>CYP2C9</i>	rs1057910	C	A	AA	542	84.4	716	97.4	1.00E-16
				CA	96	15.0	19	2.6	
				CC	4	0.6	0	0.0	
<i>CYP3A4</i>	rs4987161	G	A	AA	640	98.8	742	100.0	0.05
				GA	7	1.1	0	0.0	
				GG	1	0.2	0	0.0	
<i>CYP3A5</i>	rs776746	A	G	AA	3	0.5	364	48.9	5.90E-178
				AG	92	14.2	300	40.3	
				GG	553	85.3	80	10.8	
<i>CYP3A7</i>	rs2257401	C	G	CC	6	0.9	196	26.6	1.26E-116
				CG	104	16.0	379	51.4	
				GG	538	83.0	162	22.0	
<i>ESR1</i>	rs1801132	C	G	CC	19	2.9	6	0.8	9.32E-06

				CG	188	29.0	154	20.8	
				GG	442	68.1	582	78.4	
<i>ESR1</i>	rs2046210	A	G	AA	72	11.1	312	42.0	2.35E-45
				GA	317	48.8	320	43.1	
				GG	260	40.1	110	14.8	
<i>ESR1</i>	rs2228480	A	G	AA	18	2.8	17	2.3	0.82
				AG	167	26.1	197	26.9	
				GG	454	71.0	519	70.8	
<i>ESR1</i>	rs2234693	G	A	AA	188	29.0	170	22.9	3.84E-05
				GA	338	52.2	359	48.3	
				GG	122	18.8	214	28.8	
<i>ESR1</i>	rs3020314	G	A	AA	339	52.2	58	7.8	1.30E-98
				AG	258	39.8	302	40.6	
				GG	52	8.0	384	51.6	
<i>ESR1</i>	rs3798577	G	A	AA	203	31.3	248	33.5	0.68
				GA	314	48.5	345	46.6	
				GG	131	20.2	148	20.0	
<i>ESR1</i>	rs9383938	A	C	AA	6	0.9	15	2.0	3.18E-06
				AC	113	17.4	207	27.9	
				CC	530	81.7	521	70.1	
<i>ESR1</i>	rs9397435	G	A	AA	552	85.1	610	82.0	0.31
				GA	92	14.2	127	17.1	
				GG	5	0.8	7	0.9	
<i>ESR2</i>	rs1255998	G	C	CC	514	79.3	155	20.9	7.96E-110
				GC	127	19.6	381	51.3	
				GG	7	1.1	207	27.9	
<i>ESR2</i>	rs1256049	A	G	AA	1	0.2	11	1.5	4.78E-13
				AG	35	5.4	130	17.5	
				GG	611	94.4	602	81.0	
<i>ESR2</i>	rs1256065	C	A	AA	231	35.6	579	77.9	1.45E-61
				CA	298	45.9	152	20.5	
				CC	120	18.5	12	1.6	
<i>ESR2</i>	rs2987983	G	A	AA	280	43.2	134	18.0	7.49E-33
				GA	291	44.9	354	47.6	
				GG	77	11.9	256	34.4	
<i>ESR2</i>	rs3020450	A	G	AA	75	11.6	130	17.5	0.06
				AG	304	46.8	358	48.2	
				GG	270	41.6	254	34.2	
<i>HSD17B2</i>	rs4445895	A	G	AA	109	16.8	75	10.1	5.01E-07
				AG	313	48.2	311	41.9	
				GG	227	35.0	357	48.0	
<i>PR</i>	rs1042838	A	C	AA	18	2.8	0	0.0	3.79E-32

				AC	184	28.7	49	6.7	
				CC	439	68.5	686	93.3	
<i>SRD5A1</i>	rs3736316	A	G	AA	114	17.6	70	9.4	3.16E-07
				AG	309	47.7	329	44.2	
				GG	225	34.7	345	46.4	
<i>SRD5A1</i>	rs3822430	G	A	AA	226	34.9	346	46.6	1.42E-07
				GA	306	47.2	328	44.1	
				GG	116	17.9	69	9.3	
<i>SRD5A2</i>	rs523349	G	C	CC	318	49.1	374	50.3	0.25
				GC	262	40.5	312	41.9	
				GG	67	10.4	58	7.8	
<i>UGT1A1</i>	rs10929302	A	G	AA	69	10.6	65	8.8	0.18
				AG	285	43.9	305	41.2	
				GG	295	45.5	371	50.1	
<i>UGT1A1</i>	rs4124874	C	A	AA	187	28.8	20	2.7	7.47E-63
				AC	297	45.8	246	33.1	
				CC	165	25.4	477	64.2	
<i>UGT1A6</i>	rs2070959	G	A	AA	261	40.4	446	60.0	1.81E-12
				GA	311	48.1	248	33.4	
				GG	74	11.5	49	6.6	
<i>UGT1A9</i>	rs6714486	A	T	AA	2	0.3	26	3.5	6.99E-19
				AT	61	9.5	189	25.7	
				TT	579	90.2	519	70.7	
<i>UGT2B15</i>	rs1902023	C	A	AA	168	25.9	145	19.5	0.001
				AC	329	50.8	357	48.0	
				CC	151	23.3	242	32.5	

Abbreviations: Min, minor allele; Maj, major allele; Geno, genotype.

^aTo compare genotype frequencies between EA and AA women, *p* values were calculated using Chi-square tests or Fisher's Exact tests and adjusted for multiple testing.