

Suppl Table 1: All unadjusted *P* Values and according *Q* values of SNP Genotype Associations

	Gene	Rs No.	MAF	RISK <i>P</i> Chisq	RISK <i>Q</i> value	TT <i>P</i> Wilcox	TT <i>Q</i> value	TE <i>P</i> Wilcox	TE <i>Q</i> value
1	AKR1C1	rs2904800	0.33	0.36750	0.84080	0.82051	0.74496	0.86844	0.75530
2	AKR1C1	rs11252845	0.06	0.00500	0.24853	0.12385	0.71704	0.32968	0.72545
3	AKR1C1	rs6650153	0.09	0.91679	0.93447	0.71063	0.74496	0.57128	0.72545
4	AKR1C1	rs7915338	0.55	0.49467	0.86428	0.16336	0.73916	0.74869	0.72545
5	AKR1C2	rs7909151	0.46	0.18091	0.71694	0.03796	0.44718	0.51111	0.72545
6	AKR1C2	rs11252867	0.20	0.08142	0.49864	0.23408	0.74496	0.62776	0.72545
7	AKR1C2	rs1937888	0.49	0.39214	0.84080	0.84386	0.74496	0.72930	0.72545
8	AKR1C2	rs10795227	0.32	0.90482	0.93447	0.53577	0.74496	0.97626	0.77890
9	AKR1C2	rs12249281	0.50	0.95529	0.93447	0.82894	0.74496	0.58895	0.72545
10	AKR1C2	rs2904812	0.23	0.21930	0.75352	0.36971	0.74496	0.37358	0.72545
11	AKR1C2	rs1937863	0.16	0.05160	0.37909	0.80822	0.74496	0.74909	0.72545
12	AKR1C3	rs10508293	0.14	0.28412	0.83602	0.27187	0.74496	0.43498	0.72545
13	AKR1C3	rs4881400	0.25	0.48081	0.86428	0.80070	0.74496	0.27249	0.72545
14	AKR1C3	rs11252920	0.31	0.45493	0.86428	0.54763	0.74496	0.85019	0.75530
15	AKR1C3	rs11252975	0.46	0.65337	0.93447	0.43709	0.74496	0.91608	0.76042
16	AKR1C3	rs7904863	0.23	0.94409	0.93447	0.81020	0.74496	0.81752	0.74441
17	AKR1C4	rs7085249	0.27	0.49849	0.86428	0.45685	0.74496	0.04493	0.54156
18	AKR1C4	rs1931679	0.10	0.20650	0.75352	0.08353	0.57568	0.10183	0.66366
19	AKR1C4	rs10904442	0.10	0.11483	0.58678	0.22744	0.74496	0.65666	0.72545
20	AKR1C4	rs17306485	0.15	0.07050	0.45231	0.73986	0.74496	0.76506	0.72545
21	AKR1C4	rs12247748	0.13	0.81703	0.93447	0.34153	0.74496	0.63402	0.72545
22	AKR1C4	rs11253045	0.29	0.11574	0.58678	0.19848	0.74496	0.25903	0.72545
23	AKR1C4	rs12253078	0.13	0.85189	0.93447	0.17471	0.73916	0.95448	0.77890
24	AKR1C4	rs10904445	0.08	0.22929	0.75352	0.30493	0.74496	0.26622	0.72545
25	COMT	rs1012157	0.30	0.87015	0.93447	0.81895	0.74496	0.46141	0.72545
26	COMT	rs5993875	0.43	0.48488	0.86428	0.94395	0.75450	0.50698	0.72545
27	COMT	rs5746847	0.43	0.54503	0.88170	0.98746	0.75959	0.58943	0.72545
28	COMT	rs6518591	0.17	0.26320	0.82472	0.78531	0.74496	0.14649	0.67063
29	COMT	rs174675	0.26	0.92643	0.93447	0.34712	0.74496	0.52132	0.72545
30	COMT	rs5993883	0.47	0.74822	0.93447	0.58601	0.74496	0.68381	0.72545
31	CYP11A1	rs2277603	0.08	0.91421	0.93447	0.44923	0.74496	0.45127	0.72545

	Gene	Rs No.	MAF	RISK P Chisq	RISK Q value	TT P Wilcox	TT Q value	TE P Wilcox	TE Q value
32	CYP11A1	rs2073475	0.22	0.02261	0.32293	0.22314	0.74496	0.66502	0.72545
33	CYP11A1	rs3803463	0.06	0.96216	0.93447	0.28693	0.74496	0.49017	0.72545
34	CYP11A1	rs4555110	0.21	0.02876	0.32293	0.41218	0.74496	0.69692	0.72545
35	CYP17A1	rs10883782	0.17	0.99858	0.94087	0.85031	0.74496	0.60199	0.72545
36	CYP17A1	rs17115100	0.07	0.36155	0.84080	0.95283	0.75450	0.49322	0.72545
37	CYP17A1	rs284851	0.12	0.81245	0.93447	0.05534	0.46825	0.42539	0.72545
38	CYP17A1	rs7089422	0.17	0.95835	0.93447	0.76580	0.74496	0.07402	0.63769
39	CYP19A1	rs1065778	0.41	0.69884	0.93447	0.08373	0.57568	0.20264	0.72545
40	CYP19A1	rs3784308	0.04	0.98485	0.93447	0.39998	0.74496	0.39604	0.72545
41	CYP19A1	rs10519297	0.43	0.76119	0.93447	0.33842	0.74496	0.13435	0.67063
42	CYP19A1	rs12907866	0.50	0.94701	0.93447	0.62959	0.74496	0.05516	0.54156
43	CYP19A1	rs17523880	0.15	0.44397	0.86428	0.66569	0.74496	0.05272	0.54156
44	CYP19A1	rs1870050	0.09	0.49634	0.86428	0.91384	0.75017	0.19397	0.72545
45	CYP1A1	rs12441817	0.07	0.43839	0.86428	0.31355	0.74496	0.89248	0.75726
46	CYP1A1	rs4646421	0.08	0.42603	0.85675	0.05316	0.46825	0.35082	0.72545
47	CYP1A1	rs2472299	0.21	0.32265	0.83602	0.89044	0.74496	0.57013	0.72545
48	CYP1B1	rs1800440	0.17	0.21706	0.75352	0.57320	0.74496	0.09850	0.66366
49	CYP1B1	rs2163454	0.42	0.61707	0.93419	0.00607	0.13362	0.45395	0.72545
50	CYP1B1	rs163078	0.37	0.85621	0.93447	0.97300	0.75450	0.35589	0.72545
51	CYP1B1	rs162556	0.46	0.41555	0.84832	0.85021	0.74496	0.53530	0.72545
52	CYP1B1	rs151096	0.49	0.97859	0.93447	0.75010	0.74496	0.49335	0.72545
53	CYP3A4	rs4646437	0.13	0.71666	0.93447	0.91188	0.75017	0.53630	0.72545
54	CYP3A4	rs2246709	0.35	0.16691	0.70278	0.44008	0.74496	0.73044	0.72545
55	CYP3A4	rs2242480	0.08	0.87670	0.93447	0.81509	0.74496	0.33209	0.72545
56	CYP3A4	rs2404955	0.11	0.54969	0.88170	0.67442	0.74496	0.98917	0.78019
57	HSD17B12	rs4755731	0.41	0.05077	0.37909	0.65429	0.74496	0.75485	0.72545
58	HSD17B12	rs11037556	0.33	0.64946	0.93447	0.84942	0.74496	0.71587	0.72545
59	HSD17B12	rs4620711	0.41	0.02675	0.32293	0.52967	0.74496	0.72585	0.72545
60	HSD17B12	rs7932905	0.49	0.00821	0.24853	0.74344	0.74496	0.74271	0.72545
61	HSD17B12	rs11037575	0.42	0.04509	0.37909	0.71032	0.74496	0.66658	0.72545
62	HSD17B12	rs6485451	0.49	0.00922	0.24853	0.89395	0.74496	0.77079	0.72545

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63	HSD17B12	rs6485453	0.45	0.01740	0.32293	0.89146	0.74496	0.78230	0.72786
64	HSD17B12	rs7934642	0.06	0.52636	0.87238	0.31423	0.74496	0.05802	0.54156
65	HSD17B1	rs2676530	0.26	0.29138	0.83602	0.25184	0.74496	0.68306	0.72545
66	HSD17B1	rs676387	0.34	0.11758	0.58678	0.61049	0.74496	0.50423	0.72545
67	HSD17B1	rs12602084	0.28	0.92727	0.93447	0.00586	0.13362	0.02366	0.54156
68	HSD17B2	rs9889094	0.05	0.30292	0.83602	0.02498	0.42449	0.01741	0.54156
69	HSD17B2	rs2966249	0.32	0.12257	0.58982	0.93915	0.75450	0.80838	0.74212
70	HSD17B2	rs1424151	0.06	0.29331	0.83602	0.00214	0.13362	0.05552	0.54156
71	HSD17B2	rs10514525	0.42	0.16041	0.69718	0.22901	0.74496	0.47141	0.72545
72	HSD17B3	rs12555788	0.04	0.57279	0.89988	0.03087	0.42449	0.05777	0.54156
73	HSD17B3	rs2025444	0.36	0.96897	0.93447	0.44164	0.74496	0.59445	0.72545
74	HSD17B3	rs1887774	0.15	0.80684	0.93447	0.41756	0.74496	0.31943	0.72545
75	HSD17B3	rs407179	0.25	0.79428	0.93447	0.32659	0.74496	0.63797	0.72545
76	HSD17B3	rs408876	0.14	0.46459	0.86428	0.63013	0.74496	0.71167	0.72545
77	HSD17B3	rs2026001	0.38	0.00801	0.24853	0.11586	0.70802	0.33863	0.72545
78	HSD17B3	rs8190512	0.46	0.05346	0.37909	0.73046	0.74496	0.40990	0.72545
79	HSD17B3	rs9409407	0.10	0.60833	0.93142	0.00595	0.13362	0.92187	0.76042
80	HSD17B4	rs10463469	0.13	0.96233	0.93447	0.70496	0.74496	0.29952	0.72545
81	HSD17B4	rs32662	0.46	0.52870	0.87238	0.00569	0.13362	0.60883	0.72545
82	HSD17B4	rs2560718	0.08	0.40562	0.84080	0.92452	0.75331	0.59685	0.72545
83	HSD17B4	rs32646	0.41	0.50764	0.86580	0.50380	0.74496	0.39279	0.72545
84	HSD17B4	rs2455463	0.44	0.40211	0.84080	0.05501	0.46825	0.54846	0.72545
85	HSD17B7	rs2186018	0.09	0.75822	0.93447	0.73028	0.74496	0.99713	0.78097
86	HSD17B7	rs1892125	0.08	0.31247	0.83602	0.82104	0.74496	0.13380	0.67063
87	HSD17B7	rs2805053	0.48	0.84458	0.93447	0.69996	0.74496	0.65565	0.72545
88	HSD17B7	rs7522935	0.05	0.49076	0.86428	0.02777	0.42449	0.36017	0.72545
89	HSD17B7	rs12026860	0.25	0.35999	0.84080	0.55958	0.74496	0.76769	0.72545
90	HSD17B7	rs11589262	0.35	0.03215	0.33326	0.86688	0.74496	0.86061	0.75530
91	HSD3B1	rs6686779	0.38	0.80675	0.93447	0.15122	0.72322	0.48845	0.72545
92	HSD3B1	rs3765945	0.38	0.97574	0.93447	0.64170	0.74496	0.28086	0.72545
93	HSD3B1	rs10754400	0.38	0.82193	0.93447	0.87454	0.74496	0.48674	0.72545
94	HSD3B1	rs6203	0.39	0.33752	0.84080	0.32633	0.74496	0.04518	0.54156
95	HSD3B1	rs10802107	0.23	0.05246	0.37909	0.24441	0.74496	0.61535	0.72545
96	HSD3B1	rs1856888	0.38	0.89704	0.93447	0.76378	0.74496	0.21546	0.72545

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97	HSD3B1	rs1361530	0.10	0.84354	0.93447	0.58539	0.74496	0.96294	0.77890
98	HSD3B2	rs6658331	0.38	0.11271	0.58678	0.56449	0.74496	0.65868	0.72545
99	HSD3B2	rs1341018	0.38	0.16013	0.69718	0.51953	0.74496	0.51478	0.72545
100	HSD3B2	rs10923819	0.31	0.06139	0.41355	0.04065	0.44718	0.86995	0.75530
101	SRD5A1	rs2303705	0.42	0.73087	0.93447	0.47880	0.74496	0.43771	0.72545
102	SRD5A1	rs518673	0.32	0.57438	0.89988	0.49129	0.74496	0.84419	0.75530
103	SRD5A1	rs1651074	0.12	0.39362	0.84080	0.14902	0.72322	0.50508	0.72545
104	SRD5A1	rs1651071	0.47	0.04656	0.37909	0.10452	0.67631	0.18587	0.72545
105	SRD5A1	rs4702379	0.21	0.24317	0.78010	0.07377	0.57568	0.10666	0.66366
106	SRD5A1	rs11744535	0.26	0.37957	0.84080	0.34070	0.74496	0.53395	0.72545
107	SRD5A2	rs2365778	0.33	0.91535	0.93447	0.44689	0.74496	0.12687	0.67063
108	SRD5A2	rs11892064	0.07	0.36218	0.84080	0.21042	0.74496	0.85541	0.75530
109	SRD5A2	rs2208532	0.34	0.97659	0.93447	0.70340	0.74496	0.13835	0.67063
110	SRD5A2	rs632148	0.22	0.17233	0.70360	0.14620	0.72322	0.33021	0.72545
111	SRD5A2	rs4952224	0.06	0.60766	0.93142	0.17160	0.73916	0.78635	0.72786
112	STS	rs5934671	0.33	0.02636	0.32293	0.39144	0.74496	0.39381	0.72545
113	STS	rs4403552	0.30	0.19808	0.75352	0.56026	0.74496	0.32672	0.72545
114	STS	rs4830732	0.22	0.88506	0.93447	0.61085	0.74496	0.08166	0.64185
115	SULT1A1	rs12445705	0.12	0.80048	0.93447	0.84951	0.74496	0.28745	0.72545
116	SULT1A1	rs1968752	0.33	0.15511	0.69718	0.73775	0.74496	0.88170	0.75576
117	SULT1E1	rs1529039	0.17	0.50034	0.86428	0.97223	0.75450	0.68476	0.72545
118	SULT1E1	rs3775775	0.08	0.39044	0.84080	0.60790	0.74496	0.57346	0.72545
119	SULT1E1	rs3775770	0.28	0.64297	0.93447	0.97004	0.75450	0.64039	0.72545
120	SULT1E1	rs1590128	0.29	0.10658	0.58678	0.14523	0.72322	0.14969	0.67063
121	SULT1E1	rs1220703	0.43	0.73252	0.93447	0.46366	0.74496	0.90347	0.76042
122	SULT1E1	rs13112570	0.36	0.81178	0.93447	0.73560	0.74496	0.05515	0.54156
123	SULT2A1	rs188440	0.27	0.53093	0.87238	0.88340	0.74496	0.98058	0.77890
124	SULT2A1	rs182421	0.14	0.31490	0.83602	0.71351	0.74496	0.58987	0.72545
125	SULT2A1	rs2547238	0.32	0.02735	0.32293	0.67167	0.74496	0.61130	0.72545
126	SULT2A1	rs2910397	0.28	0.22163	0.75352	0.76821	0.74496	0.97638	0.77890
127	UGT2B15	rs4148269	0.34	0.68874	0.93447	0.77666	0.74496	0.01385	0.54156
128	UGT2B15	rs2045100	0.23	0.00734	0.24853	0.25937	0.74496	0.92336	0.76042

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129	UGT2B15	rs1902023	0.42	0.01724	0.32293	0.97399	0.75450	0.41670	0.72545
130	UGT2B17	rs4860298	0.08	0.33674	0.84080	0.20019	0.74496	0.30200	0.72545
131	UGT2B17	rs7671342	0.19	0.32079	0.83602	0.69398	0.74496	0.88397	0.75576
132	UGT2B17	rs4860305	0.15	0.22527	0.75352	0.81732	0.74496	0.44126	0.72545
133	UGT2B17	rs7435827	0.48	0.84032	0.93447	0.73577	0.74496	0.74917	0.72545
134	UGT2B28	rs7657406	0.49	0.69616	0.93447	0.52238	0.74496	0.08596	0.64185
135	UGT2B28	rs10002503	0.14	0.36978	0.84080	0.48017	0.74496	0.51473	0.72545
136	UGT2B4	rs2736520	0.15	0.68331	0.93447	0.58667	0.74496	0.04950	0.54156
137	UGT2B4	rs903446	0.39	0.80987	0.93447	0.85372	0.74496	0.14619	0.67063
138	UGT2B4	rs1389930	0.08	0.27518	0.83602	0.57153	0.74496	0.60250	0.72545
139	UGT2B4	rs1121124	0.40	0.92518	0.93447	0.51672	0.74496	0.37778	0.72545
140	UGT2B4	rs2013562	0.48	0.73583	0.93447	0.59699	0.74496	0.29726	0.72545
141	UGT2B7	rs4587017	0.48	0.89598	0.93447	0.69484	0.74496	0.74489	0.72545
142	UGT2B7	rs7662029	0.50	0.85298	0.93447	0.67669	0.74496	0.51988	0.72545
143	UGT2B7	rs12513195	0.48	0.93371	0.93447	0.81639	0.74496	0.54606	0.72545