

Supplemental Table 1. All Association Results in European American Samples

Gene	Marker	All			Positive Family History			Negative Family History		
		PDT	Geno-PDT	APL	PDT	Geno-PDT	APL	PDT	Geno-PDT	APL
Wnt3A	rs708111	0.103	0.257	0.778	0.11	0.114	0.366	0.558	0.203	0.867
Wnt3A	rs708114	0.340	0.555	0.55	0.217	0.315	0.556	0.931	0.919	0.778
Wnt3A	rs3094912	0.485	0.335	0.698	0.778	0.657	0.723	0.455	0.449	0.75
Wnt3A	rs3121310	0.014	0.033	0.065	0.051	0.073	0.499	0.137	0.319	0.08
Wnt3A	rs752107	0.023	0.027	0.003	0.31	0.441	0.125	0.0178	0.027	0.009
Wnt3A	rs1745420	0.024	0.034	0.092	0.301	0.377	0.283	0.033	0.067	0.204
Wnt7A	rs1124480	0.528	0.667	0.681	0.842	0.853	0.957	0.439	0.603	0.539
Wnt7A	rs9840696	0.229	0.473	0.958	0.040	0.097	0.047	0.288	0.584	0.149
Wnt7A	rs6778046	0.127	0.162	0.407	0.03	0.031	0.067	0.612	0.888	0.670
Wnt7A	rs9863149	0.176	0.366	0.784	0.038	0.058	0.205	0.846	0.687	0.608
Wnt7A	rs934450	0.2	0.341	0.889	0.053	0.029	0.168	0.673	0.34	0.384
Wnt7A	rs1433354	0.319	0.535	0.622	0.167	0.254	0.322	0.831	0.827	0.728
Wnt7A	rs6442414	0.733	0.168	0.933	0.371	0.34	0.833	0.598	0.278	0.720
Wnt7A	rs11128663	0.399	0.526	0.886	0.633	0.416	0.897	0.455	0.745	0.793
Wnt7A	rs4685048	0.027	0.085	0.097	0.129	0.351	0.152	0.105	0.192	0.291
Wnt5A	D3S3719	0.343	0.365	n/a	0.343	0.365	n/a	n/a	n/a	n/a
Wnt5A	rs566926	0.005	0.016	0.004	0.043	0.107	0.049	0.0462	0.144	0.02
Wnt5A	D3S2408	0.599	0.286	n/a	0.599	0.286	n/a	n/a	n/a	n/a

Wnt8a	rs4835761	0.399	0.069	0.46	0.561	0.265	0.194	0.067	0.086	0.129
Wnt8a	rs2040862	0.352	0.055	0.061	0.581	0.372	0.085	0.009	0.016	0.001
Wnt8a	rs2306110	0.409	0.188	0.818	0.749	0.679	0.052	0.117	0.113	0.197
Wnt11	rs663746	0.067	0.001	0.449	0.104	0.047	0.278	0.36139	0.01449	0.849
Wnt11	rs1533763	0.267	0.464	0.338	0.858	0.245	0.193	0.05	0.097	0.053
Wnt11	rs1533767	0.114	0.012	0.001	0.744	0.010	0.100	0.006	0.016	0.003
Wnt11	rs689095	0.374	0.127	0.540	0.943	0.217	0.652	0.135	0.219	0.289
Wnt11	rs596339	0.463	0.762	0.152	0.244	0.499	0.236	0.927	0.891	0.311
Wnt11	rs1568507	0.144	0.143	0.213	1.000	0.181	0.462	0.02	0.062	0.047
Wnt3	rs142167	0.108	0.23	0.051	0.294	0.553	0.107	0.190	0.359	0.222
Wnt3	rs7216231	0.662	0.289	0.714	0.162	0.162	0.092	0.394	0.477	0.315
Wnt3	rs199525	0.437	0.731	0.182	0.309	0.557	0.017	0.908	0.985	0.777
Wnt3	rs70602	0.154	0.308	0.041	0.309	0.585	0.009	0.299	0.426	0.365
Wnt3	rs199501	0.102	0.188	0.049	0.149	0.281	0.026	0.431	0.642	0.366
Wnt3	rs199498	0.162	0.239	0.161	0.087	0.139	0.006	1.000	0.941	0.947
Wnt3	rs111769	0.435	0.334	0.993	0.150	0.296	0.251	0.502	0.043	0.422
Wnt3	rs3851781	0.736	0.187	0.604	0.534	0.206	0.722	0.772	0.746	0.791
Wnt3	hCV1139279	0.217	0.366	0.597	0.278	0.335	0.808	0.535	0.801	0.689
Wnt3	rs9890413	0.948	0.698	0.593	0.932	0.216	0.504	0.840	0.005	0.835
Wnt9B	rs2165846	0.697	0.887	0.715	0.381	0.556	0.668	0.538	0.771	0.403
Wnt9B	rs1530364	0.574	0.828	0.644	0.083	0.146	0.298	1.000	0.821	0.856
Wnt9B	rs197915	0.160	0.051	0.573	0.072	0.180	0.003	0.926	0.060	0.310

Supplemental Table 2. All Association Results in Hispanic Samples

Gene	Marker	All			Positive Family History			Negative Family History		
		PDT	Geno-PDT	APL	PDT	Geno-PDT	APL	PDT	Geno-PDT	APL
Wnt3A	rs708111	0.858	0.698	0.314	0.034	0.135	0.007	0.297	0.426	0.005
Wnt3A	rs708114	0.819	0.925	0.422	0.655	0.513	0.813	0.593	0.701	0.425
Wnt3A	rs3094912	0.343	0.572	0.031	0.796	0.892	0.301	0.162	0.240	0.001
Wnt3A	rs3121310	0.450	0.570	0.473	0.739	0.264	0.867	0.251	0.556	0.349
Wnt3A	rs752107	0.695	0.744	0.082	0.706	0.853	0.100	0.491	0.280	0.261
Wnt3A	rs1745420	0.083	0.157	0.001	0.096	0.264	0.009	0.346	0.376	0.008
Wnt7A	rs1124480	0.106	0.040	0.252	0.706	0.080	0.851	0.103	0.189	0.118
Wnt7A	rs9840696	0.876	0.747	0.336	1.000	0.755	0.810	0.847	0.925	0.330
Wnt7A	rs6778046	0.886	0.026	0.110	0.763	0.467	0.979	0.746	0.044	0.084
Wnt7A	rs9863149	0.858	0.576	0.911	0.796	0.801	0.100	1.000	0.625	0.133
Wnt7A	rs934450	0.866	0.429	0.531	0.439	0.714	0.090	0.655	0.456	0.017
Wnt7A	rs1433354	0.456	0.689	0.214	0.257	0.411	0.651	0.746	0.946	0.227
Wnt7A	rs6442414	0.724	0.386	0.440	0.414	0.641	0.508	1.000	0.450	0.867
Wnt7A	rs11128663	0.194	0.345	0.892	0.706	0.641	0.943	0.209	0.258	0.914
Wnt7A	rs4685048	0.131	0.182	0.337	1.000	1.000	0.800	0.096	0.122	0.330
Wnt5A	D3S3719	0.734	0.526	n/a	0.734	0.526	n/a	n/a	n/a	n/a
Wnt5A	rs566926	0.182	0.432	0.154	0.781	0.185	0.401	0.144	0.129	0.242
Wnt5A	D3S2408	0.459	0.526	n/a	0.459	0.526	n/a	n/a	n/a	n/a

Wnt8a	rs4835761	0.695	0.814	0.251	0.763	0.837	0.507	0.796	0.925	0.360
Wnt8a	rs2040862	0.637	0.783	0.636	0.157	0.157	0.260	1.000	1.000	0.850
Wnt8a	rs2306110	0.564	0.650	0.181	0.763	0.837	0.524	0.617	0.758	0.223
Wnt11	rs663746	1.000	0.031	0.245	0.025	0.104	0.282	0.336	0.080	0.081
Wnt11	rs1533763	0.366	0.608	0.622	0.564	0.564	0.323	0.480	0.683	0.924
Wnt11	rs1533767	0.637	0.701	0.900	0.414	0.414	0.997	1.000	0.585	0.867
Wnt11	rs689095	1.000	1.000	0.851	0.157	0.264	0.469	0.593	0.467	0.915
Wnt11	rs596339	0.134	0.131	0.370	1.000	1.000	0.456	0.083	0.116	0.204
Wnt11	rs1568507	0.617	0.659	0.971	0.317	0.513	0.894	0.439	0.301	0.911
Wnt3	rs142167	0.866	0.953	0.730	0.480	0.367	0.463	0.847	0.642	0.943
Wnt3	rs7216231	0.353	0.492	0.989	0.257	0.135	0.983	0.670	0.210	0.993
Wnt3	rs199525	0.531	0.678	0.997	0.317	0.317	0.194	0.670	0.627	0.943
Wnt3	rs70602	0.617	0.607	0.658	0.317	0.317	0.190	0.796	0.445	0.750
Wnt3	rs199501	0.465	0.696	0.495	0.706	0.641	0.683	0.532	0.546	0.369
Wnt3	rs199498	0.414	0.376	0.531	0.706	0.641	0.688	0.467	0.155	0.410
Wnt3	rs111769	0.847	0.946	0.358	0.317	0.513	0.073	1.000	0.798	0.442
Wnt3	rs3851781	0.414	0.758	0.676	1.000	1.000	0.037	0.394	0.741	0.440
Wnt3	hCV1139279	0.593	0.695	0.810	0.564	0.564	0.309	0.366	0.578	0.492
Wnt3	rs9890413	0.683	0.908	0.980	0.157	0.157	0.145	1.000	0.722	0.851
Wnt9B	rs2165846	0.127	0.204	0.755	0.564	0.564	0.040	0.059	0.155	0.369
Wnt9B	rs1530364	0.480	0.685	0.740	0.414	0.641	0.982	0.695	0.766	0.677
Wnt9B	rs197915	0.034	0.050	0.082	0.317	0.317	0.204	0.020	0.040	0.044

Supplemental Table 3. Linkage disequilibrium data ( $r^2$ ) for dbSNPs from 7 Wnt genes. European American results are listed below the diagonal; Hispanic results are listed above the diagonal.

a) Wnt3A

b) Wnt7A

c) Wnt5A

d) Wnt8A

e) Wnt11

f) Wnt3

g) Wnt9B



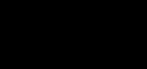
a) Wnt3A

	rs708111	rs708114	rs3094912	rs3121310	rs752107	rs1745420
rs708111		0.027	0.688	0.021	0.176	0.157
rs708114	0.289		0.001	0.463	0.012	0.001
rs3094912	0.561	0.040		0.004	0.217	0.190
rs3121310	0.137	0.484	0.013		0.014	0.014
rs752107	0.195	0.030	0.282	0.054		0.005
rs1745420	0.082	0.010	0.135	0.000	0.046	

b) Wnt7A

	rs1124480	rs9840696	rs6778046	rs9863149	rs934450	rs1433354	rs6442414	rs11128663	rs4685048
rs1124480		0.024	0.030	0.003	0.004	0.014	0.006	0.003	0.001
rs9840696	0.087		0.731	0.111	0.155	0.239	0.023	0.008	0.014
rs6778046	0.065	0.799		0.193	0.239	0.252	0.044	0.003	0.026
rs9863149	0.037	0.214	0.244		0.679	0.001	0.001	0.013	0.002
rs934450	0.032	0.219	0.263	0.900		0.011	0.003	0.004	0.001
rs1433354	0.004	0.142	0.158	0.002	0.000		0.085	0.033	0.029
rs6442414	0.000	0.014	0.015	0.075	0.084	0.008		0.598	0.369
rs11128663	0.001	0.000	0.000	0.015	0.019	0.021	0.533		0.487
rs4685048	0.010	0.015	0.012	0.018	0.022	0.115	0.322	0.526	

c) Wnt5A

	D3S3719	rs566926	D3S2408
D3S3719		0.000	0.000
rs566926	0.000		0.000
D3S2408	0.000	0.000	



d) Wnt8A

	rs4835761	rs2040862	rs2306110
rs4835761	[REDACTED]	0.081	0.935
rs2040862	0.128	[REDACTED]	0.079
rs2306110	0.932	0.118	[REDACTED]

e) Wnt11

	rs663746	rs1533763	rs1533767	rs689095	rs596339	rs1568507
rs663746		0.000	0.044	0.009	0.000	0.007
rs1533763	0.026		0.004	0.094	0.296	0.092
rs1533767	0.108	0.018		0.021	0.004	0.017
rs689095	0.023	0.120	0.058		0.327	0.948
rs596339	0.027	0.445	0.017	0.232		0.318
rs1568507	0.012	0.114	0.047	0.885	0.237	

f) Wnt3

	rs142167	rs7216231	rs199525	rs70602	rs199501	rs199498	rs111769	rs3851781	hCV1139279	rs9890413
rs142167		0.471	0.101	0.160	0.797	0.738	0.015	0.018	0.037	0.000
rs7216231	0.065		0.102	0.129	0.428	0.293	0.113	0.039	0.031	0.040
rs199525	0.581	0.004		0.718	0.096	0.130	0.255	0.153	0.010	0.082
rs70602	0.638	0.003	0.767		0.149	0.144	0.243	0.124	0.002	0.126
rs199501	0.798	0.063	0.621	0.765		0.769	0.021	0.000	0.023	0.001
rs199498	0.673	0.003	0.640	0.716	0.731		0.009	0.032	0.031	0.015
rs111769	0.029	0.002	0.025	0.026	0.024	0.025		0.095	0.045	0.209
rs3851781	0.064	0.001	0.074	0.082	0.074	0.098	0.018		0.152	0.343
hCV1139279	0.001	0.001	0.006	0.005	0.003	0.004	0.128	0.163		0.037
rs9890413	0.030	0.002	0.040	0.039	0.031	0.045	0.165	0.361	0.120	

g) Wnt9B

	rs2165846	rs1530364	rs197915
rs2165846	[REDACTED]	0.018	0.062
rs1530364	0.030	[REDACTED]	0.124
rs197915	0.082	0.069	[REDACTED]