

Supplementary Table S3: Association between rs13387042 and rs7696175 and breast cancer risk, stratified by risk factor* and Indigenous American (IA) genetic ancestry in Hispanic women from the Breast Cancer Health Disparities Study

rs13387042	No family history BC	Low IA anc	N=435	1.07	0.624	0.82-1.40	Family History*SNP = 0.208
rs13387042		Intermediate IA anc	N=2681	1.21	0.001	1.08-1.35	Ancestry*SNP = 0.126
rs13387042		High IA anc	N=1028	1.48	0.001	1.17-1.86	
rs13387042	Family history BC	Low IA anc	N=91	1.34	0.350	0.73-2.47	
rs13387042		Intermediate IA anc	N=325	0.96	0.806	0.69-1.33	
rs13387042		High IA anc	N=31	0.23	0.189	0.03-2.05	
rs7696175 & Smoking							
rs7696175		Low IA anc	N=557	0.95	0.696	0.73-1.23	0.086
rs7696175		Intermediate IA anc	N=3096	1.17	0.003	1.06-1.30	
rs7696175		High IA anc	N=1077	1.21	0.036	1.01-1.45	
rs7696175	Never smoked		N=2922	1.24	<0.001	1.11-1.38	0.096
rs7696175	Ever smoked		N=1196	1.04	0.638	0.88-1.24	
Model with both Smoking*SNP and Ancestry*SNP interaction terms							
rs7696175	Never smoked	Low IA anc	N=254	0.99	0.98	0.67-1.47	Smoking*SNP = 0.135
rs7696175		Intermediate IA anc	N=1839	1.28	<0.001	1.12-1.46	Ancestry*SNP = 0.206
rs7696175		High IA anc	N=829	1.27	0.022	1.04-1.55	
rs7696175	Ever smoked	Low IA anc	N=184	0.98	0.909	0.63-1.50	
rs7696175		Intermediate IA anc	N=810	1.00	0.984	0.81-1.23	
rs7696175		High IA anc	N=202	1.24	0.373	0.77-2.00	
rs7696175 & Age at Menarche							
rs7696175	<11		N=1056	1.01	0.925	0.85-1.20	0.149
rs7696175	11 to 13		N=2198	1.17	0.013	1.03-1.32	
rs7696175	>13		N=1411	1.21	0.017	1.03-1.42	
Model with both Age at menarche*SNP and Ancestry*SNP interaction terms							
rs7696175	<11	Low IA anc	N=149	0.62	0.074	0.37-1.05	Age at menarche*SNP = 0.179
rs7696175		Intermediate IA anc	N=701	1.12	0.297	0.90-1.39	Ancestry*SNP = 0.136
rs7696175		High IA anc	N=206	0.97	0.891	0.65-1.45	
rs7696175	11 to 13	Low IA anc	N=265	0.97	0.879	0.67-1.41	
rs7696175		Intermediate IA anc	N=1421	1.18	0.030	1.02-1.38	
rs7696175		High IA anc	N=512	1.24	0.100	0.96-1.60	
rs7696175	>13	Low IA anc	N=137	1.26	0.450	0.69-2.30	
rs7696175		Intermediate IA anc	N=937	1.19	0.077	0.98-1.44	
rs7696175		High IA anc	N=337	1.30	0.139	0.92-1.83	
rs7696175 & Age at Menopause							
rs7696175	<50		N=1642	1.19	0.016	1.03-1.38	0.159
rs7696175	≥50		N=844	1.02	0.873	0.84-1.24	
Model with both Age at Menopause*SNP and Ancestry*SNP interaction terms							
rs7696175	<50	Low IA anc	N=175	1.10	0.703	0.68-1.77	Age at menop.*SNP = 0.157
rs7696175		Intermediate IA anc	N=1083	1.20	0.042	1.01-1.43	Ancestry*SNP = 0.076
rs7696175		High IA anc	N=383	1.42	0.029	1.04-1.94	
rs7696175	≥50	Low IA anc	N=119	0.65	0.155	0.36-1.18	
rs7696175		Intermediate IA anc	N=551	1.01	0.942	0.79-1.29	
rs7696175		High IA anc	N=173	1.34	0.183	0.87-2.07	

*We only analyzed risk factors that showed SNP-risk factor interactions that were suggestive ($P<0.15$) or statistically significant ($P<0.02$) for the three SNPs with previously reported SNP by ancestry interactions.

**All models were adjusted for study, age at diagnosis/interview and models that include ancestry categories were also adjusted for continuous indigenous american ancestry