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Supplemental Data

**Principal-Component Analysis for
Assessment of Population Stratification**

in Mitochondrial Medical Genetics

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Figure S1. mtGIF Distributions for Unadjusted Analyses of Case-Control and QTL Phenotypes

Distribution of observed mtGIF values under different simulation scenarios (as defined by correlation between simulated phenotypes and mitochondrial principal component 1) are shown for both case-control and QTL analyses.

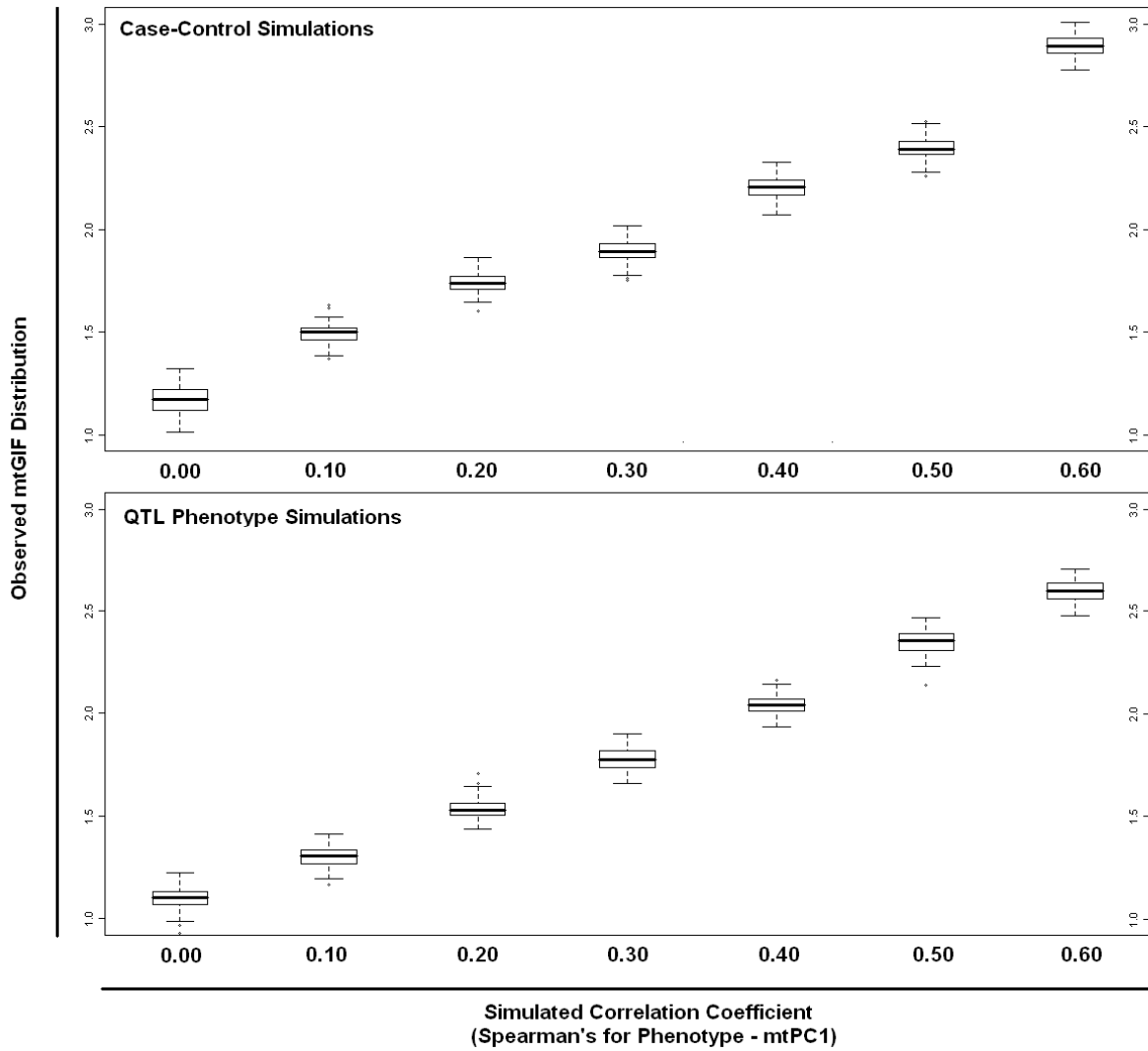


Table S1. Mitochondrial SNPs Available for PCA Analysis on Samples Genotyped Using the Affymetrix 6.0 (MGH-AIS) Commercial Array

SNP NAME	POSITION (BP)	ALLELE 1	ALLELE 2
mt770	770	A	G
mt922	922	C	T
mt1019	1019	A	G
mt1049	1049	T	C
mt1439	1439	A	G
mt1599	1599	A	G
mt1701	1701	C	T
mt1812	1812	G	A
mt1889	1889	A	G
mt2333	2333	T	C
mt2353	2353	C	T
mt2417	2417	C	T
mt2707	2707	A	G
mt2759	2759	A	G
mt2790	2790	T	C
mt2858	2858	C	T
mt2886	2886	C	T
mt3011	3011	A	G
mt3197	3197	C	T
mt3450	3450	T	C
mt3666	3666	A	G
mt3918	3918	A	G
mt4580	4580	A	G
mt4655	4655	A	G
mt4769	4769	A	G
mt4977	4977	C	T
mt5285	5285	G	A
mt5393	5393	C	T
mt5460	5460	A	G
mt5581	5581	G	A
mt6185	6185	C	T
mt6455	6455	T	C
mt7028	7028	C	T
mt7175	7175	C	T
mt7196	7196	A	C
mt7624	7624	A	T
mt8206	8206	A	G
mt8428	8428	T	C
mt8468	8468	T	C
mt8584	8584	A	G
mt8655	8655	T	C
mt8975	8975	C	T
mt8994	8994	A	G
SNP NAME	POSITION (BP)	ALLELE 1	ALLELE 2
mt9042	9042	T	C
mt9055	9055	A	G

mt9123	9123	A	G
mt9347	9347	G	A
mt9449	9449	T	C
mt9698	9698	C	T
mt9818	9818	T	C
mt9950	9950	C	T
mt10086	10086	G	A
mt10115	10115	C	T
mt10238	10238	C	T
mt10373	10373	A	G
mt10463	10463	C	T
mt10550	10550	G	A
mt10589	10589	A	G
mt10664	10664	T	C
mt11176	11176	A	G
mt11251	11251	G	A
mt11299	11299	C	T
mt11467	11467	G	A
mt11641	11641	G	A
mt11674	11674	T	C
mt11719	11719	G	A
mt11812	11812	G	A
mt11914	11914	A	G
mt12007	12007	A	G
mt12236	12236	A	G
mt12308	12308	G	A
mt12361	12361	G	A
mt12612	12612	G	A
mt12693	12693	G	A
mt12705	12705	T	C
mt12720	12720	G	A
mt13105	13105	G	A
mt13276	13276	G	A
mt13368	13368	A	G
mt13506	13506	T	C
mt13590	13590	A	G
mt13617	13617	C	T
mt13650	13650	T	C
mt13708	13708	A	G
mt14178	14178	C	T
mt14284	14284	T	C
mt14470	14470	C	T
mt14905	14905	A	G
mt15043	15043	A	G
mt15136	15136	T	C
mt15204	15204	C	T
mt15218	15218	G	A
mt15301	15301	A	G
SNP NAME	POSITION (BP)	ALLELE 1	ALLELE 2
mt15326	15326	A	G
mt15431	15431	A	G

mt15452	15452	A	C
mt15607	15607	G	A
mt15629	15629	C	T
mt15670	15670	C	T
mt15784	15784	C	T
mt15824	15824	G	A
mt15924	15924	G	A
mt16140	16140	C	T
mt16148	16148	T	C

Table S2. Mitochondrial SNPs Available for PCA Analysis on Samples Genotyped Using the Illumina 610 Quad (MGH-ICH and ISGS) Commercial Array

SNP NAME	POSITION (BP)	ALLELE 1	ALLELE 2
mt217	217	T	C
mt228	228	A	G
mt247	247	A	G
mt295	295	T	C
mt458	458	T	C
mt464	464	T	C
mt479	479	T	C
mt491	491	T	C
mt750	750	A	G
mt827	827	A	G
mt1048	1048	T	C
mt1189	1189	T	C
mt1438	1438	A	G
mt1719	1719	A	G
mt1736	1736	A	G
mt2160	2160	T	C
mt2485	2485	T	C
mt2706	2706	A	G
mt2789	2789	T	C
mt2885	2885	T	C
mt3010	3010	A	G
mt3197	3197	T	C
mt3348	3348	A	G
mt3394	3394	T	C
mt3480	3480	A	G
mt3594	3594	T	C
mt3666	3666	A	G
mt3721	3721	A	G
mt3915	3915	A	G
mt3918	3918	A	G
mt3971	3971	T	C
mt3993	3993	T	C
mt4025	4025	A	G
mt4336	4336	T	C
mt4769	4769	A	G
mt4820	4820	A	G
mt4824	4824	A	G
mt4883	4883	T	C
mt4917	4917	A	G
mt4977	4977	T	C
mt5004	5004	T	C
mt5046	5046	A	G
mt5264	5264	T	C
SNP NAME	POSITION (BP)	ALLELE 1	ALLELE 2
mt5391	5391	A	G
mt5442	5442	T	C

mt5460	5460	A	G
mt5495	5495	T	C
mt5773	5773	A	G
mt5951	5951	A	G
mt6027	6027	A	G
mt6046	6046	T	C
mt6153	6153	T	C
mt6221	6221	T	C
mt6260	6260	A	G
mt6681	6681	T	C
mt6735	6735	A	G
mt6753	6753	A	G
mt6776	6776	T	C
mt7055	7055	A	G
mt7175	7175	T	C
mt7274	7274	T	C
mt7769	7769	A	G
mt8269	8269	A	G
mt8278	8278	T	C
mt8617	8617	T	G
mt8655	8655	T	C
mt8869	8869	A	G
mt9072	9072	A	G
mt9094	9094	A	G
mt9378	9378	A	G
mt9540	9540	T	C
mt9667	9667	A	G
mt9698	9698	T	C
mt9716	9716	T	C
mt9899	9899	T	C
mt9950	9950	T	C
mt10034	10034	T	C
mt10045	10045	A	G
mt10238	10238	T	C
mt10311	10311	A	G
mt10321	10321	T	C
mt10398	10398	A	G
mt10463	10463	T	C
mt10550	10550	A	G
mt10586	10586	A	G
mt10589	10589	A	G
mt10688	10688	A	G
mt10873	10873	T	C
mt10915	10915	T	C
mt11252	11252	A	G
mt11377	11377	A	G
mt11467	11467	A	G
mt11485	11485	T	C
SNP NAME	POSITION (BP)	ALLELE 1	ALLELE 2
mt11900	11900	T	C
mt11914	11914	A	G

mt12309	12309	A	G
mt12372	12372	A	G
mt12631	12631	A	G
mt12670	12670	T	C
mt12705	12705	T	C
mt12851	12851	A	G
mt13105	13105	A	G
mt13263	13263	A	G
mt13650	13650	T	C
mt13780	13780	A	G
mt13789	13789	T	C
mt13965	13965	T	C
mt14178	14178	T	C
mt14233	14233	A	G
mt14583	14583	A	G
mt14798	14798	T	C
mt15043	15043	A	G
mt15244	15244	A	G
mt15257	15257	A	G
mt15302	15302	A	G
mt15535	15535	T	C
mt15670	15670	T	C
mt15758	15758	A	G
mt15784	15784	T	C
mt15833	15833	T	C
mt15904	15904	T	C
mt15924	15924	A	G
mt15928	15928	A	G
mt15931	15931	A	G
mt16130	16130	A	G
mt16145	16145	T	C
mt16146	16146	A	G
mt16149	16149	T	C
mt16163	16163	A	G
mt16164	16164	A	G
mt16184	16184	A	C
mt16272	16272	T	C
mt16329	16329	T	C
mt16392	16392	A	G
mt16393	16393	A	G