

The role of SNP-loop diuretic interactions in hypertension across ethnic groups in HyperGEN

**Supplement Table 2. 100 Top-Ranked SNPs with Suggestive Association for SBP and DBP in African Americans;
Interaction Effect in the Presence of the Main Effect.**

RS Number	Chrom	Physical Position	MAF	A1	A2	r ²	Trait	SNP Main Effect			SNP-Loop Interaction Effect			Nearby Genes	SNPs per Locus
								Beta	SE	Adjusted P-Value	Beta	SE	Adjusted P-Value		
rs11579489	1	15,663,226	0.13	G	A	0.66	DBP	-0.89	0.87	2.91E-01	16.06	3.21	3.44E-06	CTRC-ELA2A- CELA2B	1
rs2811944	1	23,772,746	0.38	T	G	0.75	DBP	-1.10	0.58	5.14E-02	11.10	1.96	1.53E-07	ID3-MDS2	5
rs1633278	1	157,171,831	0.03	C	T	0.57	SBP	4.91	3.51	2.12E-01	-82.37	13.86	5.59E-07	PYHIN1	1
rs10177843	2	136,566,171	0.05	C	T	0.65	DBP	1.97	1.32	1.25E-01	-24.90	4.76	1.26E-06	DARS-CXCR4	1
rs1432205	2	137,612,734	0.29	A	C	0.82	SBP	-0.48	1.09	9.01E-01	-19.55	3.88	9.46E-07	THSD7B	1
rs1143676	2	182,103,590	0.25	A	G	0.99	DBP	0.05	0.59	9.26E-01	9.59	1.88	2.27E-06	MIR4437- ITGA4	2
rs2729258	3	577,574	0.41	C	G	NA	SBP	2.59	0.90	1.73E-02	-16.27	2.85	5.71E-07	CHL1-LOC402123	2
rs2729207	3	579,868	0.41	A	T	NA	SBP	2.50	0.90	2.25E-02	-15.76	2.87	1.42E-06	CHL1-LOC402123	1
rs2729243	3	581,433	0.45	A	G	0.96	SBP	2.35	0.91	4.71E-02	-14.76	2.85	7.02E-06	CHL1-LOC402123	1
rs2729148	3	587,273	0.45	A	G	0.92	SBP	2.17	0.93	7.09E-02	-15.28	2.95	6.23E-06	CHL1-LOC402123	1
rs17786807	3	2,337,468	0.12	G	C	NA	DBP	-0.51	0.76	4.87E-01	13.02	2.49	1.29E-06	CNTN4	2
rs6441770	3	43,377,250	0.09	T	C	0.94	SBP	0.95	1.55	4.27E-01	-32.53	6.10	3.81E-06	SNRK-ANO10	2
rs1383019	3	141,597,174	0.15	T	G	0.89	SBP	1.85	1.31	1.66E-01	-26.74	4.95	6.03E-06	CLSTN2	1
rs16877398	4	25,278,862	0.10	G	A	NA	SBP	1.90	1.52	2.03E-01	-26.44	5.17	5.15E-06	SLC34A2	2
rs1863309	4	35,246,435	0.08	A	C	0.82	DBP	-2.25	1.01	2.12E-02	19.29	3.93	5.56E-06	ARAP2	1
rs1371293	4	41,348,655	0.42	A	G	0.92	DBP	1.00	0.52	4.66E-02	-8.64	1.66	1.40E-06	LIMCH1	2
rs7721823	5	103,178,198	0.20	A	G	0.98	SBP	-2.16	1.12	8.53E-02	20.61	3.67	1.10E-06	NUDT12	10
rs7702688	5	103,676,287	0.06	C	A	0.76	SBP	2.62	2.07	2.86E-01	-55.33	8.97	2.39E-07	NUDT12	13
rs9327483	5	128,044,164	0.10	G	A	0.85	SBP	-1.00	1.59	5.77E-01	25.67	5.08	5.60E-06	FBN2-SLC27A6	1
rs10037138	5	147,596,566	0.48	T	A	0.94	SBP	-0.79	0.91	4.18E-01	16.03	3.01	5.32E-06	SPINK6-SPINK5L7	7
rs11744176	5	152,895,338	0.49	T	C	0.99	SBP	0.37	0.89	5.82E-01	-16.88	3.08	6.56E-07	GRIA1	18
rs984184	7	11,264,568	0.32	C	G	0.65	DBP	-0.68	0.65	2.81E-01	10.95	2.25	6.64E-06	PHF14-THSD7A	1
rs11974360	7	30,337,311	0.38	A	G	0.98	SBP	1.55	0.91	6.13E-02	-16.65	3.18	5.63E-06	MIR550A1- MIR550B1- ZNRF2	1
rs2643800	9	27,647,713	0.17	T	G	0.93	DBP	-0.23	0.66	7.24E-01	11.91	2.31	1.76E-06	MOB3B-IFNK-LINGO2	2
rs16916928	10	18,510,159	0.30	G	A	NA	SBP	2.09	0.99	6.91E-02	-18.00	3.43	1.81E-06	SLC39A12- CACNB2	3
rs4492852	11	50,499,436	0.49	G	C	0.95	SBP	0.86	0.91	4.57E-01	-15.45	2.88	3.93E-06	LOC646813-OR4A6P	1
rs4417255	11	51,061,717	0.44	A	G	NA	SBP	-0.62	0.90	5.12E-01	15.40	2.92	4.47E-06	LOC646813-OR4A6P	1
rs2186641	11	51,163,494	0.46	T	C	0.91	SBP	-0.34	0.93	7.70E-01	15.98	3.08	6.68E-06	LOC646813-OR4A6P	1
rs554731	11	51,244,515	0.47	C	T	0.96	SBP	-0.49	0.90	6.61E-01	15.65	2.87	2.14E-06	LOC646813-OR4A6P	5
rs17655864	11	110,336,581	0.06	T	C	0.79	DBP	3.12	1.20	7.67E-03	-22.10	4.34	2.31E-06	ARHGAP20-MIR4491-POU2AF1	1
rs1946519	11	111,540,717	0.35	C	A	0.95	DBP	0.62	0.53	2.24E-01	-9.19	1.83	3.16E-06	IL18- TEX12-BCO2	1
rs9568642	13	51,090,690	0.13	G	A	0.82	SBP	-1.15	1.48	5.78E-01	22.47	4.81	3.17E-06	MIR4703- WDFY2- DHRS12	1
rs12430231	13	64,347,888	0.14	G	A	0.86	SBP	3.50	1.39	1.98E-02	-27.01	4.92	2.12E-06	NFYAP-LGMN2P	1
rs8040285	15	89,884,905	0.04	C	G	0.64	SBP	2.88	3.01	4.14E-01	-77.42	13.04	5.55E-07	SV2B-SLCO3A1	1
rs12964689	18	19,370,996	0.49	A	G	0.97	SBP	2.80	0.90	3.29E-03	-16.70	3.17	1.86E-06	C18orf8- NPC1	2
rs504368	18	53,933,770	0.17	T	C	0.39	SBP	1.20	1.89	6.10E-01	-30.50	5.85	6.89E-06	NEDD4L	1
rs8094402	18	72,836,437	0.10	A	G	0.75	DBP	-0.35	0.94	7.00E-01	-16.01	3.30	6.72E-06	MBP	1

Bolded genes represent loci where SNPs are intragenic. SNPs with r² = NA are genotyped. A1, allele 1; A2, allele 2; beta, beta coefficient; Chrom, chromosome; DBP, diastolic blood pressure; G/I, genotyped vs. imputed SNP; MAF, minor allele frequency; SBP, systolic blood pressure, SE, standard error of the beta coefficient; SNP, single nucleotide