

SNP associations with fasting glucose

SNPs from the Dupuis et al. meta-analysis²¹

SNP	chromosome	position	near gene*	minor allele	major allele
rs10830963	11	92348358	MTNR1B	G	C
rs4607517	7	44202193	GCKR	G	A
rs560887	2	169471394	G6PC2	T	C
rs2191349	7	15030834	DGKB	T	G
rs780094	2	27594741	GCKR	T	C
rs11708067	3	124548468	ADCY5	G	A
rs7944584	11	47292896	MADD	T	A
rs10885122	10	113032083	ADRA2A	T	G
rs174550	11	61328054	FADS1	T	C
rs11605924	11	45823667	CRF2	C	A
rs7034200	9	4279050	GLIS3	C	A
rs340874	1	212225879	PROX1	T	C
rs11071657	15	60221254	C2CD4B	G	A
rs11558471	8	118254914	SLC30A8	G	A
rs4506565	10	114746031	TCF7L2	T	A

SNPs identified in exploratory analysis

SNP	chromosome	position	near gene*	minor allele	major allele
rs3781637	11	92353418	MTNR1B	T	C
rs2268569	7	44193545	GCKR	T	G
rs1798684	7	44193593	GCKR	T	C
rs3821117	2	169472050	G6PC2	T	C
rs2323228	2	169472792	G6PC2	G	C

SNP associations with fasting insulin

SNPs from the Dupuis et al. meta-analysis²¹

SNP	chromosome	position	near gene*	minor allele	major allele
rs780094	2	27594741	GCKR	T	C
rs35767	12	101399699	NA	G	A

*according to Dupuis et al. meta-analysis

MESA whites

beta	se	p-value	MAF	imputation quality
1.4251	0.31977	8.32E-06	0.26752	NA
-1.1885	0.36075	0.000986	0.17213	0.99
-1.6435	0.31486	1.79E-07	0.27665	NA
0.51611	0.28408	0.069252	0.46474	0.965109
-0.8728	0.33228	0.001907	0.42907	NA
-0.8601	0.33228	0.009641	0.22831	NA
0.29346	0.31106	0.34546	0.29396	NA
-0.25776	0.44445	0.56195	0.11723	0.956971
0.13987	0.30062	0.64173	0.3265	0.996297
-0.27123	0.28209	0.3363	0.47557	0.999
-0.2384	0.2752	0.38635	0.48901	0.999
-0.3135	0.28832	0.2769	0.46733	0.937701
-0.03881	0.31713	0.90261	0.36463	0.861359
-0.55006	0.31394	0.079755	0.29944	0.965442
0.36691	0.29887	0.21958	0.31211	NA

MESA chinese

beta	se	p-value	MAF	imputation quality
1.2259	0.56403	0.02974	0.44463	NA
-1.1038	0.76534	0.14923	0.18046	0.914326
0.51204	1.7944	0.77537	0.025578	NA
1.6506	0.61537	0.007312	0.30761	0.940341
-1.3239	0.57247	0.020748	0.47112	NA
3.7659	1.8164	0.038141	0.023102	NA
0.95286	1.1557	0.40967	0.062562	0.976117
0.010243	0.53271	0.98466	0.40431	0.999
0.9186	0.65713	0.16215	0.22993	0.999
0.22304	0.56445	0.69273	0.45813	0.994991
-0.4953	0.60293	0.41137	0.39196	0.905710
0.071071	0.66213	0.91452	0.3481	0.749295
-1.4403	0.57666	0.0125	0.47113	0.964106
0.5772	1.7189	0.73702	0.028099	NA

MESA african american

beta	se	p-value	MAF	imputation quality
1.6539	0.73304	0.024054	0.082101	NA
-1.0658	0.72642	0.14233	0.10865	0.841175
-0.12929	0.81546	0.87403	0.067135	NA
-0.28064	0.43781	0.52151	0.41413	0.946354
-0.61203	0.52363	0.24247	0.17988	NA
-1.1428	0.91123	0.20982	0.052448	NA
-0.23448	0.44248	0.59616	0.34752	0.964563
0.44217	0.68247	0.51705	0.098265	0.999
-1.0398	0.56434	0.065404	0.15206	0.999
-0.34237	0.43489	0.43112	0.37129	0.983178
-0.92723	0.53433	0.069689	0.18361	0.938669
1.4729	0.66481	0.026723	0.15626	0.699691
-0.54873	0.70594	0.43698	0.099487	0.914869
-0.06021	0.41646	0.88506	0.42935	NA

MESA hispanic

beta	se	p-value	MAF	imputation quality
1.3156	0.55268	0.017291	0.19577	NA
-1.1937	0.56046	0.033182	0.24121	0.861273
-1.5992	0.60976	0.008722	0.14427	NA
-0.19442	0.43778	0.65697	0.48647	0.999
-1.1426	0.46362	0.01372	0.34274	NA
-1.1351	0.47901	0.017808	0.27912	NA
0.05659	0.61082	0.92619	0.15022	NA
0.14673	0.53333	0.78323	0.19906	0.999
-0.01093	0.41272	0.97887	0.46574	0.999
-0.64239	0.43393	0.13877	0.47639	0.999
-0.52331	0.4394	0.23366	0.46099	0.991228
-0.6365	0.44914	0.15644	0.37307	0.999
-0.286	0.45645	0.53095	0.45776	0.905579
-0.66734	0.5275	0.20583	0.25075	0.921595
0.01251	0.48049	0.97923	0.28456	NA

meta analysis non-white (chinese, hispanic, african american)

MAF	beta	se	p-value	heterogeneity p-value
0.27	1.36	0.34	9.40E-05	0.89
0.19	-1.13	0.39	0.003	0.17
0.11	-0.87	0.47	0.06	0.98
0.42	0.14	0.28	0.6	0.02
0.32	-1.02	0.3	0.0006	0.62
0.28	-1.13	0.47	0.02	0.99
0.12	-0.02	0.49	0.97	0.05
0.27	0.0034	0.33	0.99	0.6
0.38	0.08	0.29	0.78	0.84
0.33	-0.43	0.3	0.17	0.06
0.43	-0.28	0.27	0.3	0.57
0.32	-0.1	0.3	0.74	0.05
0.36	0.23	0.33	0.49	0.09
0.29	-0.91	0.34	0.007	0.52
0.36	-0.009	0.31	0.98	0.94

meta-analysis all four groups

MAF	beta	se	p-value	heterogeneity p-value
0.27	1.38	0.19	1.29 E -12	0.97
0.19	-1.15	0.22	1.0 E -7	0.15
0.2	-1.29	0.23	2.1 E -6	0.99
0.44	0.33	0.2	0.101	0.04
0.38	-0.94	0.27	3.9 E -6	0.78
0.24	-0.94	0.27	0.0005	0.64
0.24	0.2	0.26	0.44	0.1
0.22	-0.09	0.26	0.74	0.74
0.35	0.11	0.21	0.61	0.95
0.41	-0.34	0.21	0.1	0.12
0.46	-0.26	0.19	0.18	0.77
0.4	-0.21	0.21	0.31	0.1
0.36	-0.09	0.23	0.69	0.16
0.3	-0.715	0.23	0.002	0.6
0.333	0.19	0.22	0.39	0.83

0.007028	0.90002	0.99377	0.055755	0.489549
1.2434	0.36	0.000553	0.17137	NA
-0.30788	0.47938	0.5207	0.094452	NA
0.22892	0.47542	0.63016	0.095332	NA

2.4421	1.1833	0.03904	0.12716	0.511099
1.2413	1.1231	0.26906	0.14696	0.460367
1.1258	0.72346	0.11969	0.19059	NA
-2.3158	1.8831	0.21879	0.023102	NA
2.1144	1.916	0.2698	0.022277	NA

0.29951	1.6619	0.85697	0.035037	0.447773
1.7354	0.63785	0.006516	0.2133	0.626280
0.79083	0.55159	0.15165	0.16356	NA
0.84955	0.45677	0.062897	0.27661	NA
-0.76274	0.40922	0.062339	0.49339	NA

2.8476	1.4304	0.046506	0.044637	0.488252
-2.1844	1.0795	0.043013	0.11495	0.442421
1.5453	0.54707	0.004733	0.20807	NA
-1.1822	0.588	0.044378	0.15502	NA
0.69964	0.55092	0.2041	0.18772	NA

0.08	2.07	0.8	0.01	0.47
0.18	0.82	0.49	0.1	0.006
0.19	1.16	0.34	0.0007	0.62
0.22	-0.0001	0.35	0.99	0.01
0.38	-0.18	0.32	0.6	0.05

0.08	2.07	0.8	0.009	0.47
0.15	0.63	0.43	0.14	0.01
0.18	1.2	0.24	1.3 E -6	0.81
0.18	-0.11	0.38	0.7	0.03
0.29	-0.05	0.27	0.86	0.09

-0.04173	0.017873	0.019567	0.42901	NA
-0.02146	0.024805	0.38687	0.16166	0.947775

-0.04745	0.033454	0.15607	0.47107	NA
0.032749	0.034719	0.34556	0.36673	0.961035

-0.0712	0.03038	0.019095	0.17938	NA
0.006509	0.024828	0.79318	0.4209	0.926361

-0.06896	0.026565	0.009434	0.34274	NA
0.024801	0.029554	0.40137	0.24844	0.937273

0.32	-0.06	0.02	0.0002	0.85
0.36	0.02	0.02	0.27	0.8

0.37	-0.05	0.01	1.6 E -5	0.77
0.3	0.006	0.01	0.67	0.53