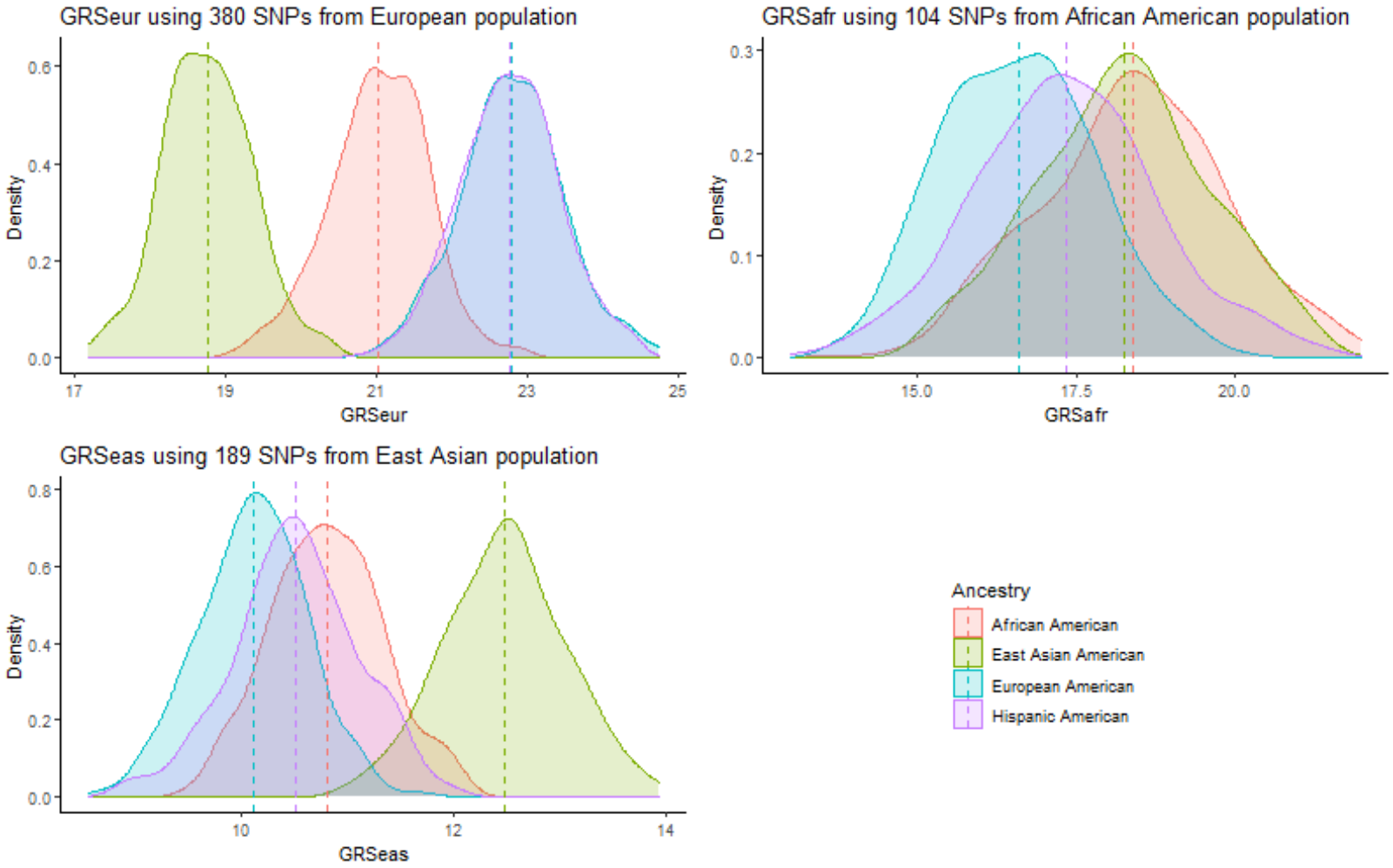
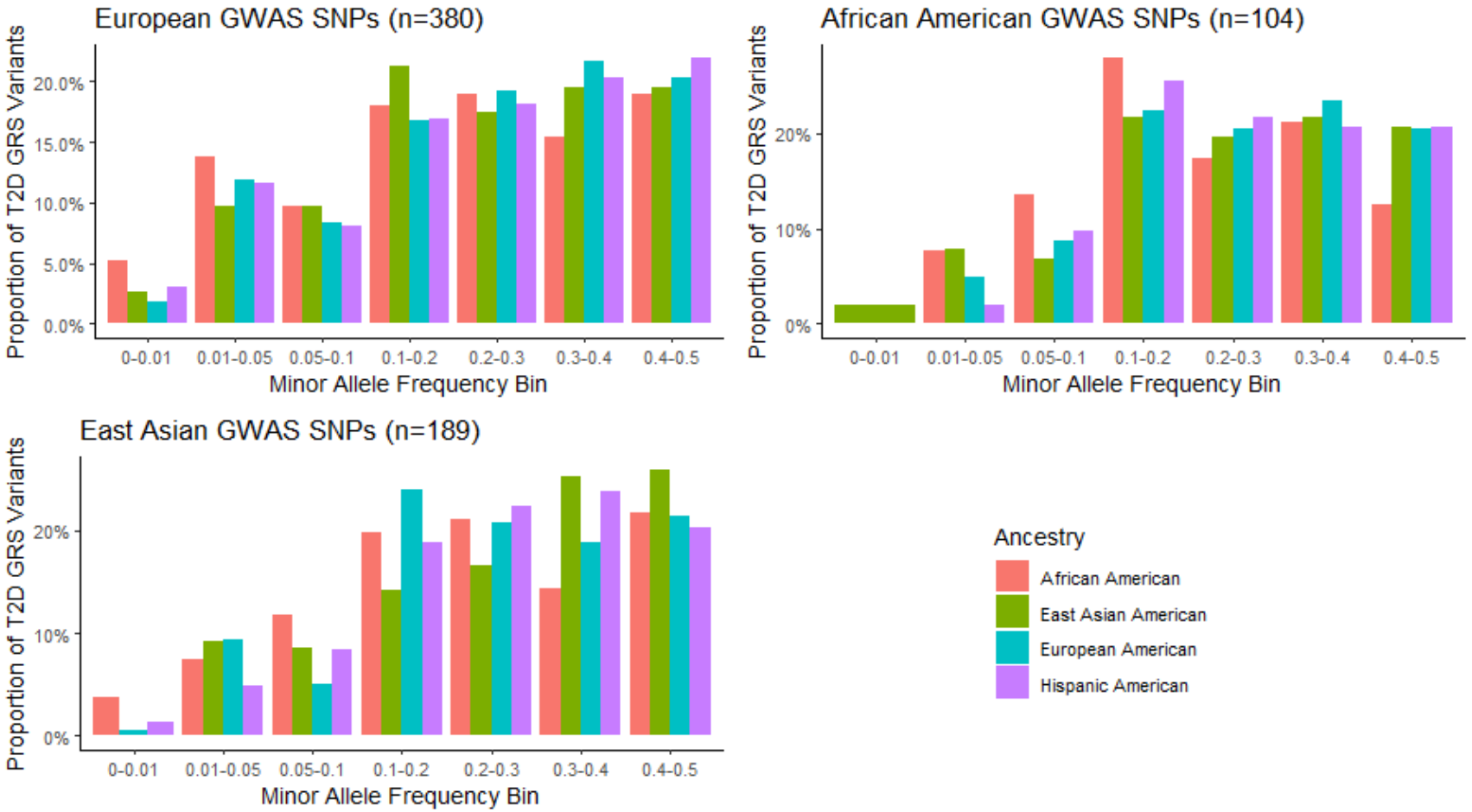
SUPPLEMENTARY FIGURES AND TABLES

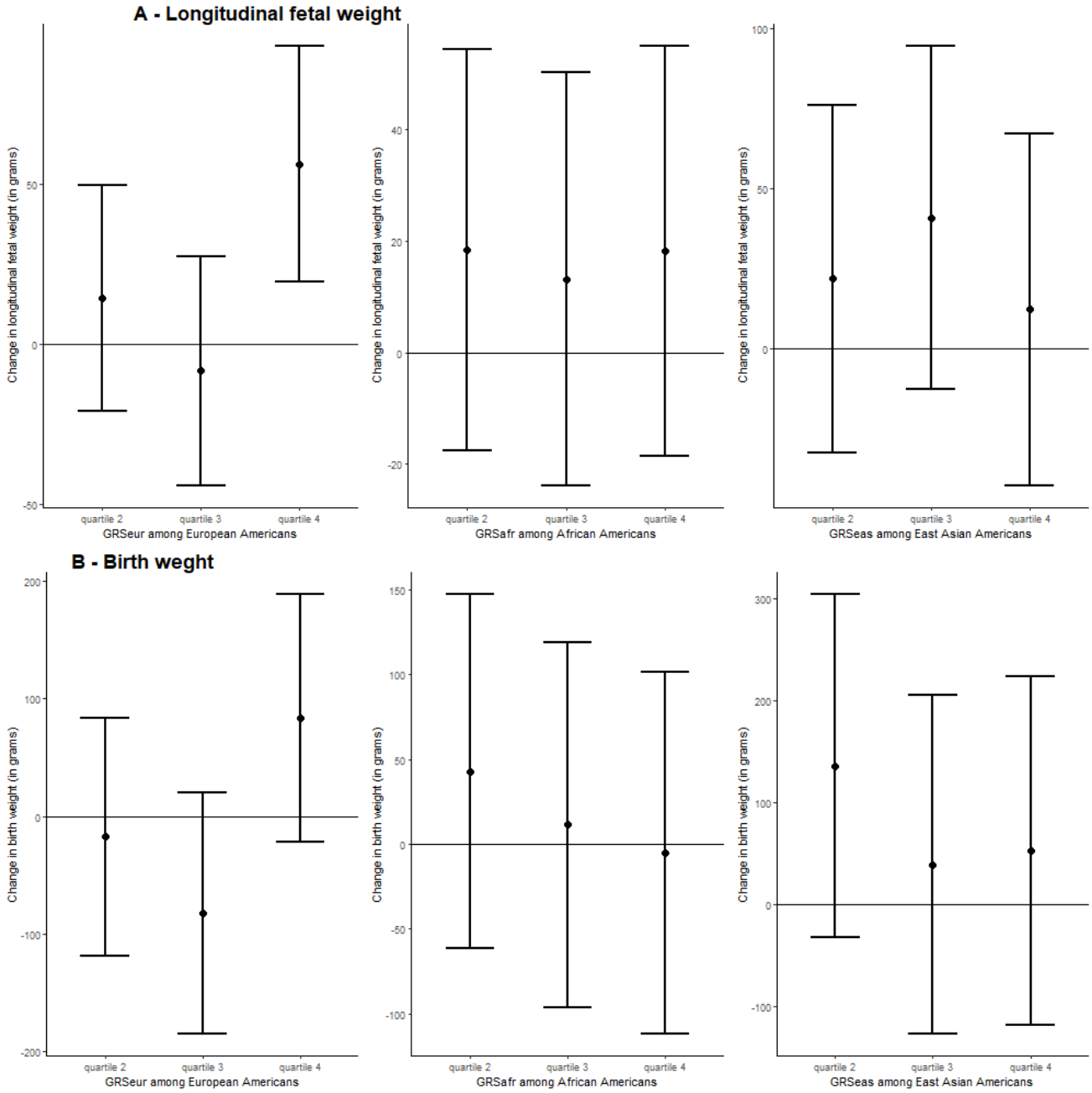
Supplementary Figure S1: Density plot description of the GRS related-T2D (N=1513 from the NICHD Fetal Growth Studies–Singleton cohort). Vertical lines indicate the mean.



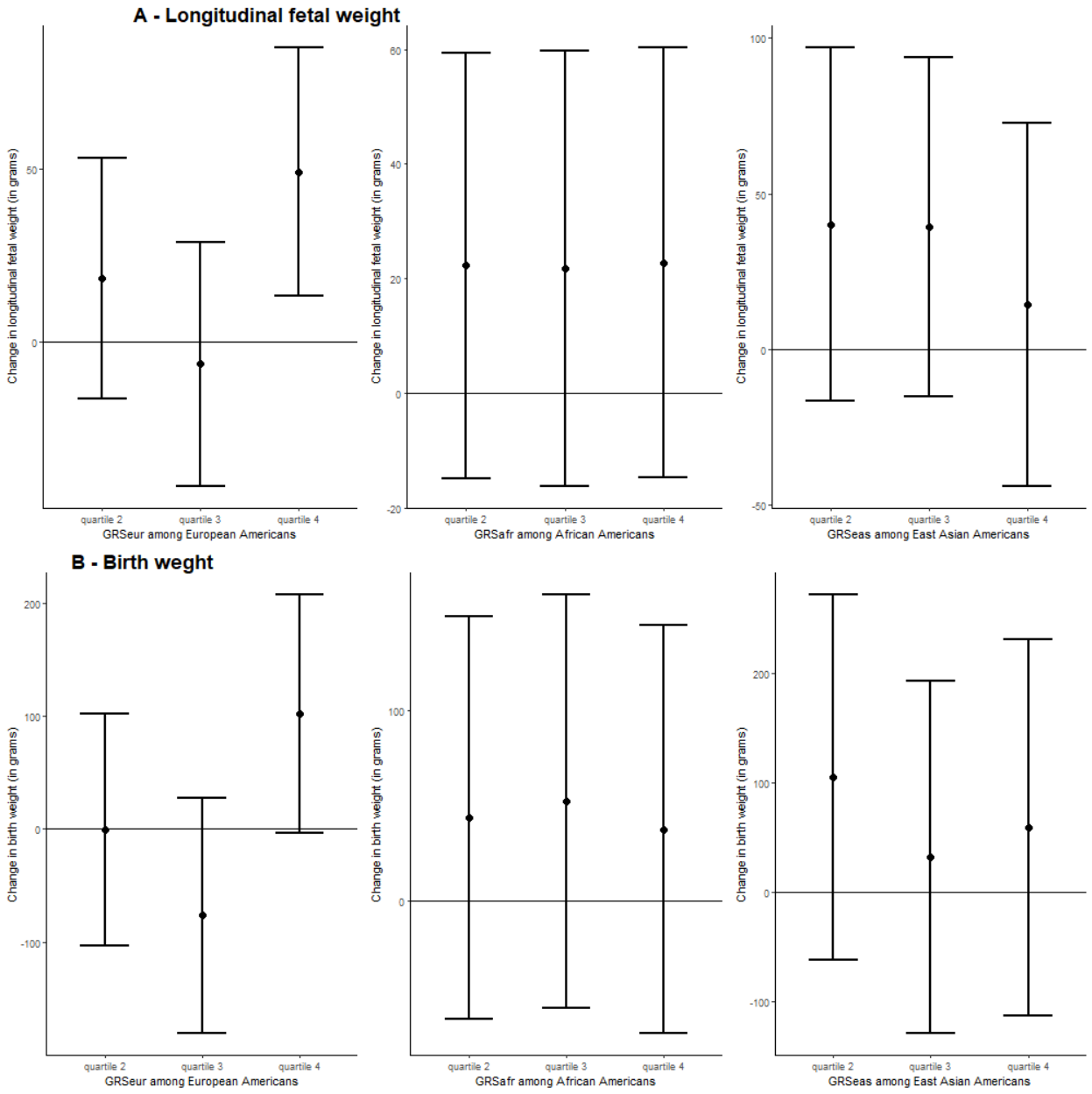
Supplementary Figure S2: Minor allele frequency distribution of GWAS selected variants related to T2D.



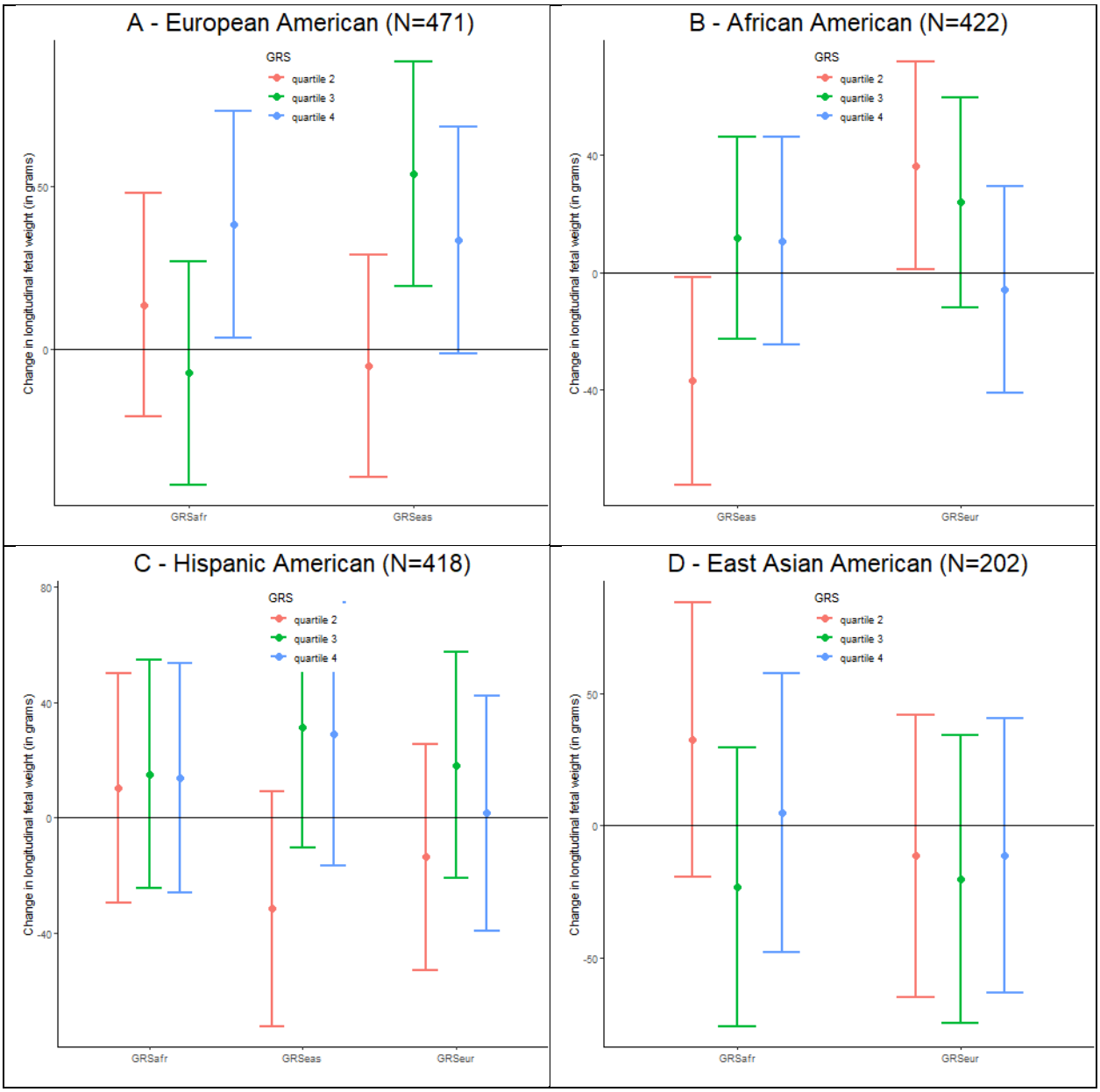
Supplementary Figure S3: Ancestry-matched GRS - Change of A - Longitudinal estimated fetal weight change (in grams), B- birth weight (in grams) for quartile increase in ancestry-matched GRS related-T2D among women further adjusted for glucose challenge test results (N=1513 from the NICHD Fetal Growth Studies–Singleton cohort). Adjusted for pre-pregnancy BMI, offspring sex, glucose challenge test results, gestational age at measurements and for the first 5 genetic principal components. Dots indicate the estimates; vertical lines, the 95% confidence intervals; horizontal lines, the null.



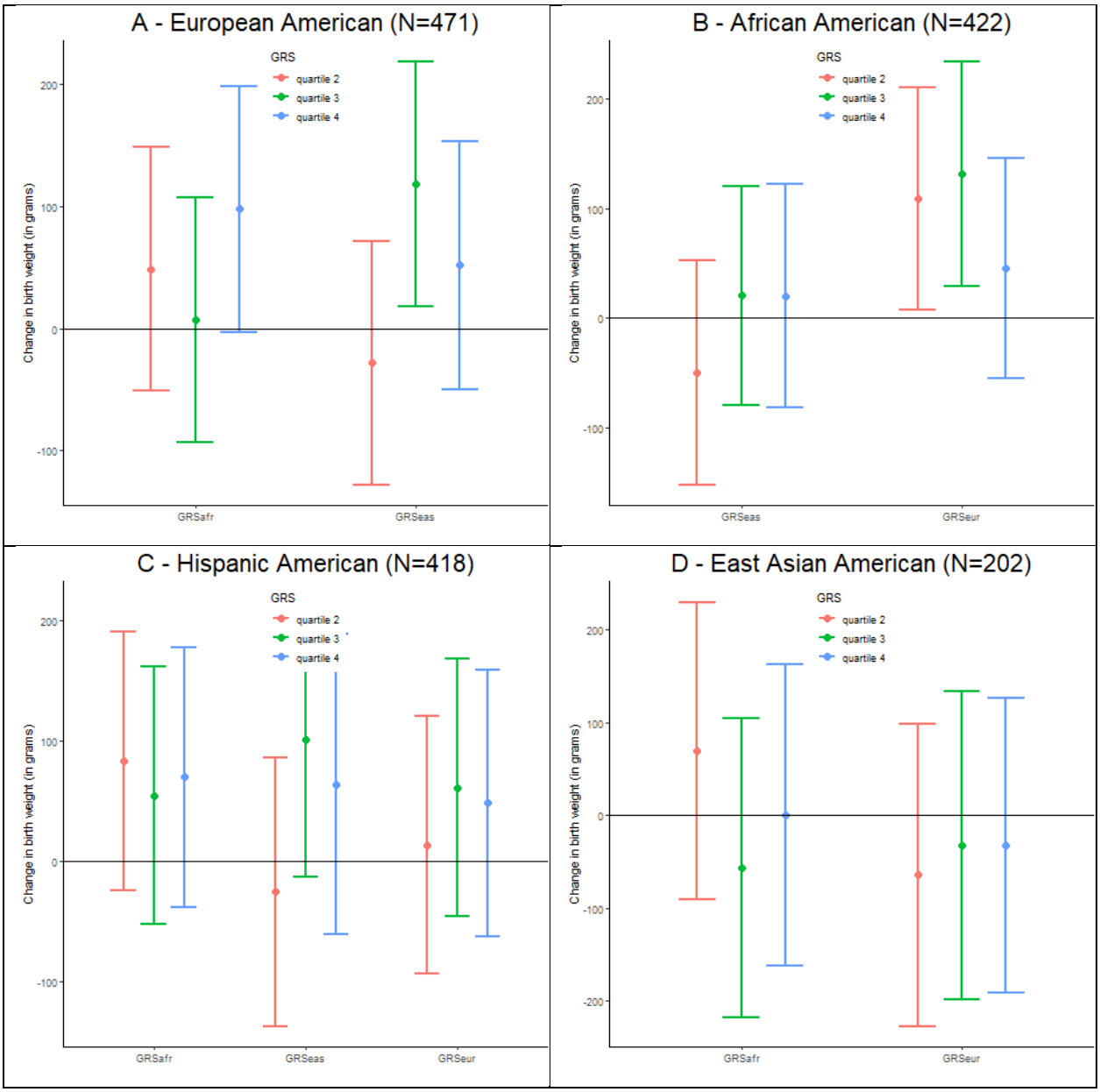
Supplementary Figure S4: Ancestry-matched GRS - Change of A - Longitudinal estimated fetal weight change (in grams), B- birth weight (in grams) for quartile increase in ancestry-matched GRS related-T2D among women normal glucose tolerance (N=1348 from the NICHD Fetal Growth Studies–Singleton cohort). Adjusted for pre-pregnancy BMI, offspring sex, gestational age at measurements and for the first 5 genetic principal components. Dots indicate the estimates; vertical lines, the 95% confidence intervals; horizontal lines, the null.



Supplementary Figure S5: Cross-ancestry GRS - Longitudinal estimated fetal weight change (in grams) for quartile increase in cross-ancestry GRS related-T2D (N=1513 from the NICHD Fetal Growth Studies–Singleton cohort). Adjusted for pre-pregnancy BMI, offspring sex, gestational age at measurements and for the first 5 genetic principal components. Dots indicate the estimates; vertical lines, the 95% confidence intervals; horizontal lines, the null.



Supplementary Figure S6: Cross-ancestry GRS - Birth weight change (in grams) for quartile increase in cross-ancestry GRS related-T2D (N=1513 from the NICHD Fetal Growth Studies–Singleton cohort). Adjusted for pre-pregnancy BMI, offspring sex, gestational age at measurements and for the first 5 genetic principal components. Dots indicate the estimates; vertical lines, the 95% confidence intervals; horizontal lines, the null.



Supplementary Table S1: Description of the 380 SNPs from GWAS of T2D in European populations used to calculate GRS*eur*.

rsID	Chromosome	Position	SNP_ID	Risk Allele	OR	Effect estimates (log(OR))
rs3768321	1	40035928	1:40035928	T	1.09	0.086
rs58432198	1	51256091	1:51256091	C	1.07	0.068
rs12140153	1	62579891	1:62579891	G	1.07	0.068
rs1127215	1	117532790	1:117532790	C	1.05	0.049
rs1493694	1	120526982	1:120526982	T	1.09	0.086
rs10305745	1	150786038	1:150786038	A	1.28	0.247
rs145904381	1	151017991	1:151017991	T	1.19	0.174
rs539515	1	177889025	1:177889025	C	1.05	0.049
rs12048743	1	205114873	1:205114873	G	1.04	0.039
rs9430095	1	206593900	1:206593900	C	1.04	0.039
rs79687284	1	214150821	1:214150821	C	1.16	0.148
rs340874	1	214159256	1:214159256	C	1.07	0.068
rs114526150	1	214175531	1:214175531	G	1.12	0.113
rs2820446	1	219748818	1:219748818	C	1.06	0.058
rs348330	1	229672955	1:229672955	G	1.05	0.049
rs291367	1	235690800	1:235690800	G	1.04	0.039
rs62107261	2	422144	2:422144	T	1.12	0.113
rs35913461	2	653575	2:653575	C	1.06	0.058
rs11680058	2	16574669	2:16574669	A	1.06	0.058
rs17802463	2	25643221	2:25643221	G	1.04	0.039
rs1260326	2	27730940	2:27730940	C	1.07	0.068
rs28525376	2	43207872	2:43207872	G	1.03	0.030
rs6708643	2	43430440	2:43430440	A	1.04	0.039
rs80147536	2	43698028	2:43698028	A	1.13	0.122
rs10193538	2	58981064	2:58981064	T	1.04	0.039
rs6545714	2	59307725	2:59307725	G	1.04	0.039
rs243024	2	60583665	2:60583665	A	1.06	0.058
rs2249105	2	65287896	2:65287896	A	1.1	0.095
rs2052261	2	65355270	2:65355270	G	1.07	0.068
rs2028150	2	65655012	2:65655012	C	1.05	0.049
rs11688931	2	121318166	2:121318166	C	1.04	0.039
rs11688682	2	121347612	2:121347612	G	1.05	0.049
rs66477705	2	121378852	2:121378852	T	1.09	0.086
rs35999103	2	147861633	2:147861633	T	1.05	0.049
rs13426680	2	158339550	2:158339550	A	1.09	0.086
rs3772071	2	161135544	2:161135544	T	1.05	0.049
rs10195252	2	165513091	2:165513091	T	1.07	0.068
rs13024606	2	165573194	2:165573194	T	1.09	0.086
rs113414093	2	219859171	2:219859171	A	1.12	0.113
rs2972144	2	227101411	2:227101411	G	1.1	0.095
rs11709077	3	12336507	3:12336507	G	1.14	0.131
rs17819328	3	12489342	3:12489342	G	1.06	0.058
rs35352848	3	23455582	3:23455582	T	1.07	0.068
rs17013314	3	23510044	3:23510044	G	1.11	0.104
rs11926707	3	46925539	3:46925539	C	1.27	0.239
rs75423501	3	47242923	3:47242923	G	1.05	0.049
rs4688760	3	49980596	3:49980596	T	1.04	0.039
rs2581787	3	53127677	3:53127677	T	1.04	0.039
rs76263492	3	54828827	3:54828827	T	1.09	0.086
rs3774723	3	63962339	3:63962339	G	1.07	0.068
rs74368513	3	64460694	3:64460694	G	1.31	0.270

rs9860730	3	64701146	3:64701146	A	1.06	0.058
rs13085136	3	72865183	3:72865183	C	1.08	0.077
rs2272163	3	77671721	3:77671721	C	1.04	0.039
rs11708067	3	123065778	3:123065778	A	1.09	0.086
rs649961	3	124926637	3:124926637	T	1.04	0.039
rs9828772	3	129333182	3:129333182	C	1.06	0.058
rs62271373	3	150066540	3:150066540	A	1.09	0.086
rs13065698	3	152086533	3:152086533	A	1.05	0.049
rs74653713	3	152417881	3:152417881	C	1.1	0.095
rs35497231	3	152433628	3:152433628	C	1.04	0.039
rs7629630	3	168218841	3:168218841	A	1.05	0.049
rs9873618	3	170733076	3:170733076	G	1.07	0.068
rs2872246	3	183738460	3:183738460	A	1.04	0.039
rs6780171	3	185503456	3:185503456	A	1.14	0.131
rs150111048	3	185514421	3:185514421	G	1.12	0.113
rs11717959	3	185541213	3:185541213	G	1.04	0.039
rs1516728	3	185829891	3:185829891	A	1.03	0.030
rs3887925	3	186665645	3:186665645	T	1.07	0.068
rs7645517	3	186675277	3:186675277	A	1.08	0.077
rs4686471	3	187740899	3:187740899	C	1.06	0.058
rs111827885	4	616608	4:616608	C	1.18	0.166
rs1531583	4	744972	4:744972	T	1.13	0.122
rs35654957	4	1010077	4:1010077	C	1.03	0.030
rs56337234	4	1784403	4:1784403	C	1.06	0.058
rs362307	4	3241845	4:3241845	T	1.08	0.077
rs1801212	4	6302519	4:6302519	A	1.05	0.049
rs10937721	4	6306763	4:6306763	C	1.06	0.058
rs12640250	4	17792869	4:17792869	C	1.04	0.039
rs10938398	4	45186139	4:45186139	A	1.05	0.049
rs2102278	4	52818664	4:52818664	G	1.04	0.039
rs114447556	4	53207093	4:53207093	T	1.06	0.058
rs12642790	4	83578271	4:83578271	A	1.04	0.039
rs1903002	4	89740894	4:89740894	G	1.04	0.039
rs6821438	4	95091911	4:95091911	A	1.04	0.039
rs1580278	4	104140848	4:104140848	C	1.04	0.039
rs1296328	4	137083193	4:137083193	A	1.04	0.039
rs7669833	4	153513369	4:153513369	T	1.06	0.058
rs28819812	4	157652753	4:157652753	C	1.04	0.039
rs58730668	4	185717759	4:185717759	T	1.07	0.068
rs3845281	5	14610134	5:14610134	G	1.08	0.077
rs146886108	5	14751305	5:14751305	C	1.41	0.344
rs17250977	5	14753745	5:14753745	G	1.12	0.113
rs6885132	5	14768092	5:14768092	C	1.07	0.068
rs76549217	5	14768766	5:14768766	T	1.14	0.131
rs62368490	5	44534364	5:44534364	T	1.1	0.095
rs6884702	5	44682589	5:44682589	G	1.04	0.039
rs17261179	5	51791225	5:51791225	T	1.04	0.039
rs3811978	5	52100489	5:52100489	G	1.06	0.058
rs62357230	5	52315682	5:52315682	A	1.09	0.086
rs62370480	5	52774510	5:52774510	A	1.04	0.039
rs702634	5	53271420	5:53271420	A	1.05	0.049
rs279744	5	53412620	5:53412620	C	1.04	0.039
rs465002	5	55808475	5:55808475	T	1.11	0.104
rs2431115	5	55848669	5:55848669	A	1.04	0.039
rs9687832	5	55861595	5:55861595	A	1.08	0.077
rs96844	5	56196604	5:56196604	G	1.04	0.039
rs4976033	5	67714246	5:67714246	G	1.05	0.049

rs2307111	5	75003678	5:75003678	T	1.05	0.049
rs4457053	5	76424949	5:76424949	G	1.06	0.058
rs1316776	5	78430607	5:78430607	C	1.05	0.049
rs7719891	5	86577352	5:86577352	G	1.04	0.039
rs138337556	5	101232944	5:101232944	G	1.56	0.445
rs78408340	5	102338739	5:102338739	G	1.47	0.385
rs115505614	5	102422968	5:102422968	T	1.19	0.174
rs244665	5	133414622	5:133414622	A	1.03	0.030
rs329122	5	133864599	5:133864599	A	1.04	0.039
rs3934712	5	157928196	5:157928196	C	1.05	0.049
rs112498319	6	7035734	6:7035734	C	1.03	0.030
rs9379084	6	7231843	6:7231843	G	1.11	0.104
rs9505097	6	7255650	6:7255650	C	1.05	0.049
rs7756992	6	20679709	6:20679709	G	1.15	0.140
rs77136196	6	34247047	6:34247047	T	1.11	0.104
rs2233632	6	34524698	6:34524698	T	1.04	0.039
rs34298980	6	40409243	6:40409243	T	1.04	0.039
rs11967262	6	43760327	6:43760327	G	1.04	0.039
rs6458354	6	43814190	6:43814190	C	1.05	0.049
rs3798519	6	50788778	6:50788778	C	1.06	0.058
rs2465043	6	51180765	6:51180765	G	1.03	0.030
rs4946812	6	107431688	6:107431688	G	1.04	0.039
rs11759026	6	126792095	6:126792095	G	1.07	0.068
rs2800733	6	127416930	6:127416930	A	1.05	0.049
rs9494624	6	137300960	6:137300960	A	1.04	0.039
rs2982521	6	139835329	6:139835329	A	1.05	0.049
rs616279	6	140249466	6:140249466	A	1.04	0.039
rs474513	6	160770312	6:160770312	A	1.04	0.039
rs4709746	6	164133001	6:164133001	C	1.06	0.058
rs17168486	7	14898282	7:14898282	T	1.07	0.068
rs10228066	7	15063569	7:15063569	T	1.07	0.068
rs2908334	7	15206239	7:15206239	T	1.03	0.030
rs78840640	7	23434606	7:23434606	G	1.11	0.104
rs4279506	7	23512896	7:23512896	G	1.06	0.058
rs1708302	7	28198677	7:28198677	C	1.1	0.095
rs917195	7	30728452	7:30728452	C	1.05	0.049
rs878521	7	44255643	7:44255643	A	1.06	0.058
rs116913033	7	44365549	7:44365549	C	1.04	0.039
rs56376556	7	102038318	7:102038318	T	1.08	0.077
rs11496066	7	102486254	7:102486254	T	1.08	0.077
rs62482405	7	102987583	7:102987583	G	1.05	0.049
rs39328	7	103444978	7:103444978	T	1.04	0.039
rs6976111	7	117495667	7:117495667	A	1.04	0.039
rs2268382	7	130027037	7:130027037	C	1.03	0.030
rs1562396	7	130457914	7:130457914	G	1.06	0.058
rs62492368	7	150537635	7:150537635	A	1.05	0.049
rs6459733	7	156930550	7:156930550	G	1.06	0.058
rs17689007	8	9974824	8:9974824	G	1.04	0.039
rs57327348	8	10808687	8:10808687	A	1.04	0.039
rs10096633	8	19830921	8:19830921	C	1.07	0.068
rs10954772	8	30863938	8:30863938	T	1.04	0.039
rs13262861	8	41508577	8:41508577	C	1.07	0.068
rs4736819	8	41509915	8:41509915	T	1.04	0.039
rs148766658	8	41552046	8:41552046	C	1.09	0.086
rs11786992	8	95685147	8:95685147	A	1.03	0.030
rs10097617	8	95961626	8:95961626	T	1.04	0.039
rs187936726	8	96092422	8:96092422	G	1.11	0.104

rs149364428	8	97737741	8:97737741	A	1.27	0.239
rs12680028	8	110123183	8:110123183	C	1.04	0.039
rs3802177	8	118185025	8:118185025	G	1.11	0.104
rs80244329	8	118404672	8:118404672	G	1.11	0.104
rs17772814	8	128711742	8:128711742	G	1.08	0.077
rs1561927	8	129568078	8:129568078	C	1.04	0.039
rs4977213	8	145507304	8:145507304	C	1.05	0.049
rs12719778	8	145879883	8:145879883	T	1.04	0.039
rs510807	9	3965689	9:3965689	A	1.03	0.030
rs79103584	9	4243045	9:4243045	T	1.14	0.131
rs10974438	9	4291928	9:4291928	C	1.05	0.049
rs7022807	9	19067833	9:19067833	G	1.04	0.039
rs7867635	9	20241069	9:20241069	C	1.04	0.039
rs7847880	9	20662703	9:20662703	C	1.04	0.039
rs1412830	9	22043612	9:22043612	C	1.04	0.039
rs76011118	9	22133773	9:22133773	A	1.11	0.104
rs10811660	9	22134068	9:22134068	G	1.27	0.239
rs10757283	9	22134172	9:22134172	T	1.11	0.104
rs1333052	9	22157908	9:22157908	A	1.03	0.030
rs1575972	9	22301092	9:22301092	T	1.1	0.095
rs1412234	9	28410683	9:28410683	C	1.04	0.039
rs12001437	9	34074476	9:34074476	C	1.04	0.039
rs11137820	9	81359113	9:81359113	C	1.04	0.039
rs17791513	9	81905590	9:81905590	A	1.1	0.095
rs2796441	9	84308948	9:84308948	G	1.07	0.068
rs55653563	9	97001682	9:97001682	A	1.04	0.039
rs12236906	9	97497494	9:97497494	T	1.15	0.140
rs505922	9	136149229	9:136149229	C	1.05	0.049
rs78403475	9	139235606	9:139235606	G	1.06	0.058
rs28505901	9	139241030	9:139241030	G	1.09	0.086
rs11793035	9	139507212	9:139507212	C	1.04	0.039
rs11257655	10	12307894	10:12307894	T	1.09	0.086
rs177045	10	71321279	10:71321279	G	1.07	0.068
rs61850200	10	71321658	10:71321658	C	1.04	0.039
rs41277236	10	71332301	10:71332301	T	1.09	0.086
rs2642588	10	71466578	10:71466578	G	1.05	0.049
rs703972	10	80952826	10:80952826	G	1.07	0.068
rs1317617	10	81096589	10:81096589	G	1.04	0.039
rs11202627	10	89769340	10:89769340	T	1.06	0.058
rs7078559	10	93924663	10:93924663	T	1.03	0.030
rs10882101	10	94462427	10:94462427	T	1.06	0.058
rs1112718	10	94479107	10:94479107	A	1.06	0.058
rs140242150	10	114702962	10:114702962	A	1.36	0.307
rs7918400	10	114703136	10:114703136	T	1.06	0.058
rs184509201	10	114740337	10:114740337	C	1.21	0.191
rs180988137	10	114751173	10:114751173	G	1.17	0.157
rs78025551	10	114757956	10:114757956	C	1.05	0.049
rs7903146	10	114758349	10:114758349	T	1.37	0.315
rs34855922	10	114871594	10:114871594	A	1.05	0.049
rs72631105	10	122915345	10:122915345	A	1.06	0.058
rs2280141	10	124193181	10:124193181	T	1.05	0.049
rs12802972	11	1704596	11:1704596	A	1.03	0.030
rs11042596	11	2118860	11:2118860	G	1.04	0.039
rs555759341	11	2151761	11:2151761	C	1.38	0.322
rs4929965	11	2197286	11:2197286	A	1.07	0.068
rs4930091	11	2372356	11:2372356	C	1.04	0.039
rs2283164	11	2579163	11:2579163	A	1.08	0.077

rs80102379	11	2634177	11:2634177	G	1.15	0.140
rs231349	11	2672821	11:2672821	T	1.07	0.068
rs231361	11	2691500	11:2691500	A	1.08	0.077
rs2283220	11	2755548	11:2755548	A	1.05	0.049
rs234853	11	2850828	11:2850828	G	1.08	0.077
rs2237895	11	2857194	11:2857194	C	1.12	0.113
rs2237897	11	2858546	11:2858546	C	1.23	0.207
rs445084	11	2908754	11:2908754	G	1.03	0.030
rs141521721	11	14763828	11:14763828	A	1.13	0.122
rs5213	11	17408404	11:17408404	C	1.07	0.068
rs4923543	11	28534898	11:28534898	A	1.04	0.039
rs7943101	11	32460873	11:32460873	T	1.04	0.039
rs145678014	11	32927778	11:32927778	G	1.11	0.104
rs286925	11	34642668	11:34642668	A	1.04	0.039
rs2767036	11	34982148	11:34982148	C	1.04	0.039
rs1061810	11	43877934	11:43877934	A	1.05	0.049
rs7115753	11	45912013	11:45912013	A	1.04	0.039
rs7124681	11	47529947	11:47529947	A	1.04	0.039
rs1783541	11	65294799	11:65294799	T	1.06	0.058
rs61881115	11	68997225	11:68997225	G	1.05	0.049
rs11820019	11	69448758	11:69448758	T	1.16	0.148
rs77464186	11	72460398	11:72460398	A	1.11	0.104
rs10830963	11	92708710	11:92708710	G	1.1	0.095
rs57235767	11	93013531	11:93013531	C	1.04	0.039
rs10893829	11	128042575	11:128042575	T	1.06	0.058
rs10750397	11	128234144	11:128234144	A	1.05	0.049
rs67232546	11	128398938	11:128398938	T	1.06	0.058
rs112595469	11	128583975	11:128583975	T	1.1	0.095
rs10848958	12	4031104	12:4031104	C	1.04	0.039
rs11063028	12	4300172	12:4300172	C	1.06	0.058
rs4238013	12	4376089	12:4376089	C	1.06	0.058
rs3217792	12	4384696	12:4384696	C	1.12	0.113
rs76895963	12	4384844	12:4384844	T	1.62	0.482
rs3217860	12	4399050	12:4399050	G	1.05	0.049
rs2066827	12	12871099	12:12871099	G	1.05	0.049
rs718314	12	26453283	12:26453283	G	1.05	0.049
rs10842994	12	27965150	12:27965150	C	1.08	0.077
rs2258238	12	66221060	12:66221060	T	1.1	0.095
rs1042725	12	66358347	12:66358347	T	1.05	0.049
rs1796330	12	71522953	12:71522953	G	1.05	0.049
rs2197973	12	95928560	12:95928560	T	1.04	0.039
rs77864822	12	97848775	12:97848775	A	1.08	0.077
rs1426371	12	108629780	12:108629780	G	1.05	0.049
rs34965774	12	118412373	12:118412373	A	1.06	0.058
rs12578639	12	118489636	12:118489636	A	1.04	0.039
rs11065299	12	121297815	12:121297815	A	1.06	0.058
rs73226260	12	121380541	12:121380541	G	1.13	0.122
rs1800574	12	121416864	12:121416864	T	1.14	0.131
rs56348580	12	121432117	12:121432117	G	1.05	0.049
rs28638142	12	121501461	12:121501461	A	1.08	0.077
rs73224262	12	121882395	12:121882395	T	1.24	0.215
rs4148856	12	123450765	12:123450765	C	1.05	0.049
rs7978610	12	124468572	12:124468572	G	1.27	0.239
rs825452	12	124509177	12:124509177	A	1.04	0.039
rs12811407	12	133069698	12:133069698	A	1.05	0.049
rs34584161	13	26776999	13:26776999	A	1.05	0.049
rs11842871	13	31042452	13:31042452	G	1.04	0.039

rs576674	13	33554302	13:33554302	G	1.05	0.049
rs963740	13	51096095	13:51096095	A	1.04	0.039
rs9537803	13	58366634	13:58366634	C	1.04	0.039
rs9569864	13	58965435	13:58965435	C	1.05	0.049
rs9563615	13	59077406	13:59077406	A	1.05	0.049
rs76251711	13	59184234	13:59184234	G	1.16	0.148
rs1359790	13	80717156	13:80717156	G	1.09	0.086
rs7987740	13	109947213	13:109947213	T	1.04	0.039
rs4771648	13	110431626	13:110431626	G	1.04	0.039
rs17122772	14	23288935	14:23288935	G	1.04	0.039
rs17522122	14	33302882	14:33302882	T	1.04	0.039
rs8017808	14	38848419	14:38848419	G	1.04	0.039
rs17836088	14	79932041	14:79932041	C	1.06	0.058
rs8010382	14	91963722	14:91963722	G	1.04	0.039
rs62007683	14	103894071	14:103894071	G	1.04	0.039
rs8032939	15	38834033	15:38834033	C	1.06	0.058
rs34715063	15	38873115	15:38873115	C	1.1	0.095
rs11070332	15	41809205	15:41809205	A	1.05	0.049
rs2456530	15	53091553	15:53091553	T	1.06	0.058
rs528350911	15	53747228	15:53747228	G	1.27	0.239
rs117483894	15	57456802	15:57456802	G	1.1	0.095
rs8037894	15	62394264	15:62394264	G	1.05	0.049
rs7178762	15	63871292	15:63871292	C	1.04	0.039
rs4776970	15	68080886	15:68080886	A	1.04	0.039
rs13737	15	75932129	15:75932129	G	1.05	0.049
rs1005752	15	77818128	15:77818128	A	1.08	0.077
rs4932265	15	90423293	15:90423293	T	1.07	0.068
rs12910825	15	91511260	15:91511260	G	1.05	0.049
rs6600191	16	295795	16:295795	T	1.06	0.058
rs3751837	16	3583173	16:3583173	T	1.04	0.039
rs8046545	16	28915217	16:28915217	G	1.04	0.039
rs11642430	16	30045789	16:30045789	G	1.04	0.039
rs199795270	16	30419384	16:30419384	C	1.25	0.223
rs4281707	16	53501946	16:53501946	G	1.04	0.039
rs78020297	16	53758720	16:53758720	A	1.09	0.086
rs1421085	16	53800954	16:53800954	C	1.13	0.122
rs862320	16	69651866	16:69651866	C	1.04	0.039
rs72802342	16	75234872	16:75234872	C	1.17	0.157
rs3115960	16	75516534	16:75516534	G	1.03	0.030
rs2925979	16	81534790	16:81534790	T	1.05	0.049
rs12920022	16	89564055	16:89564055	A	1.05	0.049
rs1043246	17	3828086	17:3828086	G	1.05	0.049
rs3826482	17	3860356	17:3860356	A	1.03	0.030
rs1377807	17	4045440	17:4045440	C	1.05	0.049
rs1641523	17	7549681	17:7549681	C	1.05	0.049
rs62059712	17	7740170	17:7740170	T	1.07	0.068
rs7222481	17	9785187	17:9785187	C	1.04	0.039
rs4925109	17	17661802	17:17661802	A	1.05	0.049
rs71372253	17	29413019	17:29413019	C	1.08	0.077
rs10962	17	36046451	17:36046451	C	1.05	0.049
rs2189301	17	36063685	17:36063685	G	1.05	0.049
rs10908278	17	36099952	17:36099952	T	1.08	0.077
rs34855406	17	40731411	17:40731411	C	1.05	0.049
rs35895680	17	47060322	17:47060322	C	1.06	0.058
rs2727301	17	61965043	17:61965043	T	1.04	0.039
rs60276348	17	62203304	17:62203304	T	1.05	0.049
rs11657492	17	65648427	17:65648427	G	1.06	0.058

rs61676547	17	65892507	17:65892507	C	1.06	0.058
rs7240767	18	7070642	18:7070642	C	1.04	0.039
rs62080313	18	36278709	18:36278709	C	1.06	0.058
rs72926932	18	53050646	18:53050646	C	1.09	0.086
rs28719468	18	53452144	18:53452144	C	1.04	0.039
rs17684074	18	54675384	18:54675384	G	1.04	0.039
rs9957145	18	56876228	18:56876228	G	1.05	0.049
rs523288	18	57848369	18:57848369	T	1.05	0.049
rs74452128	18	58056566	18:58056566	C	1.15	0.140
rs10469140	18	60668270	18:60668270	G	1.03	0.030
rs12454712	18	60845884	18:60845884	T	1.05	0.049
rs7249758	19	4948862	19:4948862	A	1.05	0.049
rs116953931	19	5224998	19:5224998	A	1.08	0.077
rs75253922	19	7240848	19:7240848	C	1.05	0.049
rs4804833	19	7970635	19:7970635	A	1.05	0.049
rs3111316	19	13038415	19:13038415	A	1.05	0.049
rs8107974	19	19388500	19:19388500	T	1.1	0.095
rs188247550	19	19396616	19:19396616	T	1.15	0.140
rs10406327	19	33890838	19:33890838	C	1.04	0.039
rs429358	19	45411941	19:45411941	T	1.08	0.077
rs10406431	19	46157019	19:46157019	A	1.05	0.049
rs2238689	19	46178661	19:46178661	C	1.04	0.039
rs3810291	19	47569003	19:47569003	A	1.05	0.049
rs13041756	20	21466795	20:21466795	C	1.06	0.058
rs2268078	20	32596704	20:32596704	A	1.04	0.039
rs76811102	20	42905415	20:42905415	T	1.09	0.086
rs4810426	20	43001721	20:43001721	T	1.09	0.086
rs191830490	20	43023355	20:43023355	G	1.24	0.215
rs1800961	20	43042364	20:43042364	T	1.18	0.166
rs11696357	20	43233649	20:43233649	A	1.06	0.058
rs560716466	20	45317678	20:45317678	A	1.36	0.307
rs6063048	20	45598564	20:45598564	G	1.05	0.049
rs11699802	20	48832135	20:48832135	C	1.04	0.039
rs34454109	20	51223594	20:51223594	A	1.04	0.039
rs6070625	20	57394628	20:57394628	G	1.05	0.049
rs862016	20	57551099	20:57551099	G	1.07	0.068
rs6011155	20	62450664	20:62450664	T	1.04	0.039
rs59944054	20	62693175	20:62693175	A	1.06	0.058
rs6518681	22	30609554	22:30609554	G	1.09	0.086
rs117001013	22	32348841	22:32348841	C	1.07	0.068
rs5758223	22	41489920	22:41489920	A	1.04	0.039
rs738408	22	44324730	22:44324730	T	1.05	0.049
rs1801645	22	50356850	22:50356850	C	1.04	0.039
rs112915006	22	50604696	22:50604696	G	1.08	0.077

Supplementary Table S2: Description of the 104 SNPs from GWAS of T2D in African American populations used to calculate GRS*afr*.

rsID	Chromosome	Position	SNP_ID	Risk Allele	OR	Effect estimates (log(OR))
rs7542900	1	95070041	1:95070041	C	1.16	0.148
rs10923931	1	120517959	1:120517959	T	1.13	0.122
rs17045328	1	207652176	1:207652176	G	1.38	0.322
rs12027542	1	233340154	1:233340154	A	1.41	0.344
rs4659485	1	237145918	1:237145918	T	1.3	0.262
rs11677370	2	3841420	2:3841420	T	1.35	0.300
rs7578597	2	43732823	2:43732823	T	1.15	0.140
rs243088	2	60568745	2:60568745	T	1.07	0.068
rs6712932	2	105837598	2:105837598	T	1.52	0.419
rs7560163	2	151637936	2:151637936	C	1.33	0.285
rs7593730	2	161171454	2:161171454	C	1.11	0.104
rs13389219	2	165528876	2:165528876	C	1.07	0.068
rs7578326	2	227020653	2:227020653	A	1.11	0.104
rs1801282	3	12393125	3:12393125	C	1.14	0.131
rs6784615	3	52506426	3:52506426	T	1.19	0.174
rs358806	3	55313400	3:55313400	A	1.16	0.148
rs831571	3	64048297	3:64048297	C	1.09	0.086
rs4607103	3	64711904	3:64711904	C	1.09	0.086
rs2063640	3	102203045	3:102203045	A	1.23	0.207
rs11708067	3	123065778	3:123065778	A	1.12	0.113
rs3773506	3	142431000	3:142431000	C	1.81	0.593
rs7630877	3	179661318	3:179661318	A	1.32	0.278
rs1470579	3	185529080	3:185529080	C	1.14	0.131
rs16861329	3	186666461	3:186666461	C	1.08	0.077
rs6815464	4	1309901	4:1309901	C	1.13	0.122
rs1801214	4	6303022	4:6303022	T	1.13	0.122
rs7659604	4	122665514	4:122665514	T	1.35	0.300
rs3792615	4	164532801	4:164532801	T	1.93	0.658
rs459193	5	55806751	5:55806751	G	1.08	0.077
rs4457053	5	76424949	5:76424949	G	1.08	0.077
rs12518099	5	89546109	5:89546109	G	1.16	0.148
rs10440833	6	20688121	6:20688121	A	1.25	0.223
rs9470794	6	38106844	6:38106844	C	1.12	0.113
rs1535500	6	39284050	6:39284050	T	1.08	0.077
rs9472138	6	43811762	6:43811762	T	1.06	0.058
rs1048886	6	71289189	6:71289189	G	1.26	0.231
rs2021966	6	132150439	6:132150439	A	1.27	0.239
rs642858	6	140273647	6:140273647	A	1.35	0.300
rs17168486	7	14898282	7:14898282	T	1.11	0.104
rs849134	7	28196222	7:28196222	A	1.13	0.122
rs7636	7	100490077	7:100490077	A	1.85	0.615

rs6467136	7	127164958	7:127164958	G	1.11	0.104
rs1882095	7	129397644	7:129397644	T	1.24	0.215
rs972283	7	130466854	7:130466854	G	1.07	0.068
rs516946	8	41519248	8:41519248	C	1.09	0.086
rs896854	8	95960511	8:95960511	T	1.06	0.058
rs3802177	8	118185025	8:118185025	G	1.15	0.140
rs7041847	9	4287466	9:4287466	A	1.1	0.095
rs17584499	9	8879118	9:8879118	T	1.57	0.451
rs649891	9	10430602	9:10430602	C	1.4	0.336
rs564398	9	22029547	9:22029547	T	1.12	0.113
rs10965250	9	22133284	9:22133284	G	1.2	0.182
rs13292136	9	81952128	9:81952128	C	1.11	0.104
rs2796441	9	84308948	9:84308948	G	1.07	0.068
rs4457406	9	115893544	9:115893544	T	1.35	0.300
rs4740283	9	134448296	9:134448296	G	3.12	1.138
rs12779790	10	12328010	10:12328010	G	1.11	0.104
rs1802295	10	70931474	10:70931474	T	1.07	0.068
rs12571751	10	80942631	10:80942631	A	1.08	0.077
rs1111875	10	94462882	10:94462882	C	1.13	0.122
rs7903146	10	114758349	10:114758349	T	1.4	0.336
rs10741243	10	132947962	10:132947962	G	1.75	0.560
rs10770141	11	2193840	11:2193840	A	1.07	0.068
rs231362	11	2691471	11:2691471	G	1.08	0.077
rs163184	11	2847069	11:2847069	G	1.09	0.086
rs2722769	11	11228374	11:11228374	C	1.35	0.300
rs5215	11	17408630	11:17408630	C	1.16	0.148
rs9300039	11	41915366	11:41915366	C	1.25	0.223
rs1552224	11	72433098	11:72433098	A	1.14	0.131
rs1387153	11	92673828	11:92673828	T	1.09	0.086
rs7107217	11	129473690	11:129473690	C	1.18	0.166
rs11063069	12	4374373	12:4374373	G	1.08	0.077
rs718314	12	26453283	12:26453283	G	1.08	0.077
rs10842994	12	27965150	12:27965150	C	1.1	0.095
rs12304921	12	51357542	12:51357542	G	2.5	0.916
rs1153188	12	55098996	12:55098996	A	1.08	0.077
rs1531343	12	66174894	12:66174894	C	1.1	0.095
rs1495377	12	71577101	12:71577101	G	1.28	0.247
rs4760790	12	71634794	12:71634794	A	1.11	0.104
rs7957197	12	121460686	12:121460686	T	1.07	0.068
rs1359790	13	80717156	13:80717156	G	1.15	0.140
rs730570	14	101142890	14:101142890	G	1.21	0.191
rs7172432	15	62396389	15:62396389	A	1.14	0.131
rs1436953	15	62414014	15:62414014	C	1.14	0.131
rs7177055	15	77832762	15:77832762	A	1.08	0.077
rs11634397	15	80432222	15:80432222	G	1.06	0.058
rs2028299	15	90374257	15:90374257	C	1.08	0.077

rs8042680	15	91521337	15:91521337	A	1.07	0.068
rs11642841	16	53845487	16:53845487	A	1.13	0.122
rs7202877	16	75247245	16:75247245	T	1.12	0.113
rs391300	17	2216258	17:2216258	C	1.28	0.247
rs1042522	17	7579472	17:7579472	G	1.18	0.166
rs4925115	17	17721457	17:17721457	A	1.07	0.068
rs4430796	17	36098040	17:36098040	G	1.14	0.131
rs10460009	18	2948029	18:2948029	C	1.35	0.300
rs12970134	18	57884750	18:57884750	A	1.08	0.077
rs12454712	18	60845884	18:60845884	T	1.08	0.077
rs10401969	19	19407718	19:19407718	C	1.13	0.122
rs3786897	19	33893008	19:33893008	A	1.1	0.095
rs472265	19	39580737	19:39580737	G	1.39	0.329
rs8108269	19	46158513	19:46158513	G	1.07	0.068
rs4812829	20	42989267	20:42989267	A	1.09	0.086
rs2833610	21	33385186	21:33385186	A	1.17	0.157

Supplementary Table S3: Description of the 189 SNPs from GWAS of T2D in East Asian populations used to calculate GRS*eas*.

rsID	Chromosome	Position	SNP_ID	Risk Allele	OR	Effect estimates (log(OR))
rs60573766	1	20688352	1:20688352	C	1.04	0.039
rs35880795	1	24371803	1:24371803	A	1.08	0.077
rs371894931	1	39942242	1:39942242	CA	1.06	0.058
rs562138031	1	46244900	1:46244900	C	1.06	0.058
rs11205766	1	51191935	1:51191935	T	1.09	0.086
rs2269245	1	64107893	1:64107893	G	1.06	0.058
rs532504	1	177878933	1:177878933	A	1.06	0.058
rs1327123	1	184014593	1:184014593	C	1.04	0.039
rs201297151	1	204474581	1:204474581	CAAAAAAAA	1.04	0.039
rs12403994	1	214155398	1:214155398	C	1.05	0.049
rs238763	1	229642499	1:229642499	T	1.05	0.049
rs10634531	2	632789	2:632789	CTTG	1.1	0.095
rs1260326	2	27730940	2:27730940	C	1.07	0.068
rs12712928	2	45192080	2:45192080	C	1.06	0.058
rs243018	2	60586707	2:60586707	G	1.06	0.058
rs3731600	2	120231070	2:120231070	C	1.13	0.122
rs59820396	2	123307877	2:123307877	A	1.06	0.058
rs200576292	2	149568261	2:149568261	CT	1.05	0.049
rs75536691	2	165381518	2:165381518	A	1.2	0.182
rs75179644	2	213687103	2:213687103	T	1.08	0.077
rs117809958	2	234191103	2:234191103	A	1.25	0.223
rs3963364	3	12385357	3:12385357	C	1.12	0.113
rs11926494	3	23258614	3:23258614	G	1.12	0.113
rs67114627	3	63904715	3:63904715	AAG	1.09	0.086
rs6806156	3	114968018	3:114968018	T	1.05	0.049
rs9859381	3	121965199	3:121965199	G	1.04	0.039
rs60054445	3	123174832	3:123174832	C	1.05	0.049
rs12497133	3	124921920	3:124921920	A	1.04	0.039
rs1850421	3	152382352	3:152382352	A	1.05	0.049
rs201018682	3	170643788	3:170643788	T	1.06	0.058
rs13092876	3	185495320	3:185495320	A	1.13	0.122
rs11332772	3	186649931	3:186649931	C	1.05	0.049
rs13086331	3	187698333	3:187698333	T	1.05	0.049
rs9866168	3	195830310	3:195830310	T	1.05	0.049
rs7656416	4	1254535	4:1254535	C	1.11	0.104
rs6831006	4	1784605	4:1784605	G	1.07	0.068
rs147834269	4	6303731	4:6303731	G	1.23	0.207
rs10938398	4	45186139	4:45186139	A	1.05	0.049
rs28599782	4	71844118	4:71844118	A	1.07	0.068
rs117624659	4	85339618	4:85339618	T	1.23	0.207
rs10011838	4	153520279	4:153520279	G	1.08	0.077

rs6885132	5	14768092	5:14768092	C	1.04	0.039
rs16902871	5	36257018	5:36257018	G	1.06	0.058
rs74334916	5	50079603	5:50079603	C	1.07	0.068
rs12109081	5	51751574	5:51751574	T	1.04	0.039
rs256904	5	55810305	5:55810305	T	1.08	0.077
rs2126736	5	74574984	5:74574984	A	1.04	0.039
rs6556925	5	95848503	5:95848503	C	1.04	0.039
rs329122	5	133864599	5:133864599	A	1.04	0.039
rs3135911	5	176513896	5:176513896	A	1.05	0.049
rs9379084	6	7231843	6:7231843	G	1.07	0.068
rs9350271	6	20683164	6:20683164	A	1.21	0.191
rs76541615	6	31026236	6:31026236	T	1.08	0.077
rs4711389	6	34214670	6:34214670	A	1.1	0.095
rs742762	6	39046644	6:39046644	A	1.08	0.077
rs62405419	6	50787459	6:50787459	T	1.05	0.049
rs80196932	6	117996631	6:117996631	T	1.06	0.058
rs4273712	6	126964510	6:126964510	G	1.05	0.049
rs7739842	6	131954797	6:131954797	G	1.05	0.049
rs35389258	6	137294771	6:137294771	T	1.05	0.049
rs9376382	6	139205386	6:139205386	C	1.04	0.039
rs9390022	6	143056556	6:143056556	T	1.05	0.049
rs7787720	7	13886654	7:13886654	T	1.06	0.058
rs17168486	7	14898282	7:14898282	T	1.07	0.068
rs3735567	7	28219310	7:28219310	G	1.06	0.058
rs2908279	7	44174857	7:44174857	G	1.05	0.049
rs77371031	7	50802203	7:50802203	C	1.07	0.068
rs565050730	7	55984953	7:55984953	GA	1.04	0.039
rs610930	7	69189726	7:69189726	A	1.07	0.068
rs12698877	7	69696905	7:69696905	G	1.07	0.068
rs62469016	7	89752238	7:89752238	C	1.07	0.068
rs2074120	7	93107093	7:93107093	A	1.04	0.039
rs75990271	7	102336979	7:102336979	T	1.07	0.068
rs117737118	7	126526991	7:126526991	G	1.18	0.166
rs2233580	7	127253550	7:127253550	T	1.34	0.293
rs61342118	7	127761917	7:127761917	A	1.34	0.293
rs71170768	7	140579350	7:140579350	TA	1.07	0.068
rs1182444	7	157024510	7:157024510	G	1.05	0.049
rs34642578	8	17927609	8:17927609	T	1.09	0.086
rs56687477	8	36832310	8:36832310	A	1.05	0.049
rs4739515	8	37391203	8:37391203	G	1.05	0.049
rs328301	8	38343012	8:38343012	T	1.04	0.039
rs33981001	8	41512648	8:41512648	GGT	1.08	0.077
rs349359	8	73503743	8:73503743	C	1.04	0.039
rs149265787	8	75214398	8:75214398	G	1.14	0.131
rs896852	8	95960886	8:95960886	G	1.04	0.039
rs13266634	8	118184783	8:118184783	C	1.12	0.113

rs60089934	8	126471274	8:126471274	A	1.04	0.039
rs73708054	8	132879795	8:132879795	C	1.04	0.039
rs2727245	8	145945574	8:145945574	A	1.05	0.049
rs1016565	9	1032567	9:1032567	A	1.04	0.039
rs4237150	9	4290085	9:4290085	C	1.07	0.068
rs10965248	9	22132878	9:22132878	T	1.2	0.182
rs1328412	9	81917127	9:81917127	T	1.1	0.095
rs2796441	9	84308948	9:84308948	G	1.08	0.077
rs113154802	9	98278413	9:98278413	C	1.06	0.058
rs201375651	9	107597527	9:107597527	CA	1.04	0.039
rs529565	9	136149500	9:136149500	C	1.04	0.039
rs376993806	9	139246588	9:139246588	G	1.14	0.131
rs11257657	10	12309139	10:12309139	G	1.12	0.113
rs77065181	10	23487778	10:23487778	A	1.09	0.086
rs141583966	10	63712602	10:63712602	G	1.08	0.077
rs148928116	10	64976133	10:64976133	T	1.06	0.058
rs1955163	10	71273357	10:71273357	G	1.05	0.049
rs34907385	10	77323643	10:77323643	C	1.05	0.049
rs34204798	10	80951130	10:80951130	C	1.06	0.058
rs1236816	10	89684214	10:89684214	A	1.04	0.039
rs147689733	10	93592703	10:93592703	T	1.31	0.270
rs35906730	10	94435673	10:94435673	G	1.15	0.140
rs565236700	10	95009180	10:95009180	C	1.23	0.207
rs10736116	10	99056921	10:99056921	C	1.05	0.049
rs7895872	10	112678657	10:112678657	T	1.05	0.049
rs7901695	10	114754088	10:114754088	C	1.32	0.278
rs10886863	10	122929493	10:122929493	C	1.06	0.058
rs112820281	10	124150342	10:124150342	C	1.05	0.049
rs11043003	11	2203154	11:2203154	C	1.11	0.104
rs2237897	11	2858546	11:2858546	C	1.28	0.247
rs4148646	11	17415190	11:17415190	C	1.08	0.077
rs4922793	11	27729505	11:27729505	A	1.04	0.039
rs602652	11	69462642	11:69462642	A	1.06	0.058
rs7109575	11	72463435	11:72463435	G	1.15	0.140
rs10830963	11	92708710	11:92708710	G	1.04	0.039
rs7304270	12	4381981	12:4381981	C	1.07	0.068
rs3751236	12	27963402	12:27963402	G	1.07	0.068
rs80234489	12	31441179	12:31441179	C	1.11	0.104
rs77978149	12	50269863	12:50269863	T	1.08	0.077
rs2583934	12	66232810	12:66232810	T	1.06	0.058
rs7313668	12	71449521	12:71449521	T	1.05	0.049
rs10860209	12	97850215	12:97850215	C	1.04	0.039
rs1426371	12	108629780	12:108629780	G	1.05	0.049
rs149212747	12	111836771	12:111836771	A	1.07	0.068
rs77768175	12	112736118	12:112736118	A	1.07	0.068
rs7307263	12	114123722	12:114123722	G	1.04	0.039

rs111246699	12	118400856	12:118400856	A	1.06	0.058
rs118074491	12	121363506	12:121363506	G	1.21	0.191
rs9316706	13	22589883	13:22589883	A	1.04	0.039
rs568052023	13	26781367	13:26781367	C	1.07	0.068
rs7983505	13	33557173	13:33557173	T	1.08	0.077
rs123378	13	51088809	13:51088809	G	1.05	0.049
rs1215468	13	80707429	13:80707429	A	1.09	0.086
rs9515905	13	91949562	13:91949562	A	1.08	0.077
rs12437434	14	24878370	14:24878370	C	1.05	0.049
rs61975988	14	38809661	14:38809661	A	1.04	0.039
rs79823890	14	52511969	14:52511969	G	1.08	0.077
rs58524310	14	77382503	14:77382503	G	1.05	0.049
rs73347525	14	101255172	14:101255172	A	1.06	0.058
rs55700915	14	103237952	14:103237952	A	1.04	0.039
rs76704029	15	28546173	15:28546173	T	1.06	0.058
rs8043085	15	38828140	15:38828140	T	1.05	0.049
rs12907887	15	40615872	15:40615872	C	1.08	0.077
rs149336329	15	52587740	15:52587740	G	1.11	0.104
rs8037894	15	62394264	15:62394264	G	1.08	0.077
rs4776970	15	68080886	15:68080886	A	1.04	0.039
rs8038760	15	75742095	15:75742095	A	1.05	0.049
rs952472	15	77776562	15:77776562	C	1.07	0.068
rs10852123	15	90428894	15:90428894	A	1.06	0.058
rs8026714	15	91522253	15:91522253	A	1.07	0.068
rs61021634	15	93825384	15:93825384	A	1.05	0.049
rs79826452	15	99366409	15:99366409	A	1.07	0.068
rs2240885	16	3647098	16:3647098	A	1.04	0.039
rs117267808	16	20323168	16:20323168	A	1.11	0.104
rs1421085	16	53800954	16:53800954	C	1.14	0.131
rs12600132	16	72022534	16:72022534	T	1.04	0.039
rs6416749	16	73100308	16:73100308	C	1.05	0.049
rs8051363	16	75255217	16:75255217	G	1.18	0.166
rs2925979	16	81534790	16:81534790	T	1.04	0.039
rs186568031	17	6953781	17:6953781	T	1.12	0.113
rs7502556	17	29642430	17:29642430	T	1.05	0.049
rs8064454	17	36101586	17:36101586	A	1.13	0.122
rs2706710	17	65641651	17:65641651	T	1.07	0.068
rs35559984	17	73187031	17:73187031	CA	1.05	0.049
rs9948462	18	7076836	18:7076836	T	1.05	0.049
rs476828	18	57852587	18:57852587	C	1.09	0.086
rs12454712	18	60845884	18:60845884	T	1.06	0.058
rs8101064	19	7293119	19:7293119	T	1.07	0.068
rs475002	19	7986638	19:7986638	G	1.04	0.039
rs4804181	19	12509536	19:12509536	A	1.04	0.039
rs145389767	19	21529576	19:21529576	G	1.22	0.199
rs142395395	19	22100706	19:22100706	A	1.24	0.215

rs10422861	19	33894846	19:33894846	C	1.06	0.058
rs113036890	19	46157928	19:46157928	CAAAAAAAA	1.1	0.095
rs73085586	20	22430241	20:22430241	G	1.04	0.039
rs12625671	20	42994812	20:42994812	C	1.07	0.068
rs13040225	20	48830772	20:48830772	A	1.05	0.049
rs6021276	20	50155386	20:50155386	T	1.04	0.039
rs11477757	20	57477177	20:57477177	TC	1.06	0.058
rs147413364	22	29380119	22:29380119	T	1.04	0.039
rs28637892	22	46313618	22:46313618	T	1.05	0.049
rs28691713	22	50356302	22:50356302	C	1.07	0.068

Supplementary Table S4: Weekly estimated fetal weight change (in grams) for the highest quartile of GRS*afr* related-T2D among African American women (n=422 from the NICHD Fetal Growth Studies–Singleton cohort). Adjusted for pre-pregnancy BMI, offspring sex and for the first 5 genetic principal components.

	Among African American women (n=422)				**Among African American women further adjusted for glucose challenge test result (n=422)**				**Among African American women with normal glucose tolerance (n=382)**		
Gestational week	β	[95% CI]	p-value		β	[95% CI]	p-value		β	[95% CI]	p-value
13	0.50	[-1.16, 2.15]	0.555		0.49	[-1.21, 2.19]	0.572		0.63	[-1.09, 2.35]	0.469
14	0.67	[-1.43, 2.77]	0.532		0.66	[-1.51, 2.82]	0.551		0.84	[-1.34, 3.03]	0.448
15	0.90	[-1.78, 3.57]	0.510		0.88	[-1.87, 3.62]	0.532		1.12	[-1.66, 3.91]	0.429
16	1.20	[-2.20, 4.60]	0.488		1.16	[-2.33, 4.65]	0.513		1.48	[-2.06, 5.02]	0.410
17	1.59	[-2.70, 5.88]	0.468		1.53	[-2.88, 5.94]	0.495		1.95	[-2.53, 6.42]	0.393
18	2.08	[-3.30, 7.45]	0.448		2.00	[-3.53, 7.52]	0.478		2.53	[-3.08, 8.14]	0.376
19	2.68	[-3.97, 9.34]	0.429		2.57	[-4.28, 9.41]	0.461		3.24	[-3.71, 10.2]	0.360
20	3.42	[-4.74, 11.57]	0.411		3.26	[-5.13, 11.64]	0.446		4.10	[-4.43, 12.63]	0.345
21	4.30	[-5.59, 14.19]	0.394		4.08	[-6.10, 14.25]	0.431		5.12	[-5.23, 15.48]	0.331
22	5.34	[-6.54, 17.22]	0.377		5.05	[-7.18, 17.28]	0.417		6.33	[-6.13, 18.79]	0.319
23	6.57	[-7.59, 20.72]	0.362		6.19	[-8.39, 20.77]	0.405		7.74	[-7.12, 22.59]	0.307
24	7.99	[-8.74, 24.73]	0.348		7.50	[-9.74, 24.75]	0.393		9.36	[-8.21, 26.94]	0.295
25	9.64	[-10.00, 29.28]	0.335		9.01	[-11.24, 29.27]	0.382		11.23	[-9.42, 31.88]	0.285
26	11.53	[-11.38, 34.44]	0.323		10.74	[-12.90, 34.38]	0.372		13.37	[-10.74, 37.48]	0.276
27	13.69	[-12.90, 40.27]	0.312		12.70	[-14.74, 40.15]	0.363		15.79	[-12.20, 43.79]	0.268
28	16.14	[-14.57, 46.84]	0.302		14.92	[-16.80, 46.63]	0.356		18.53	[-13.82, 50.89]	0.261
29	18.91	[-16.41, 54.23]	0.293		17.41	[-19.10, 53.92]	0.349		21.62	[-15.63, 58.86]	0.254
30	22.01	[-18.44, 62.45]	0.285		20.18	[-21.66, 62.02]	0.344		25.05	[-17.62, 67.73]	0.249
31	25.42	[-20.66, 71.51]	0.279		23.21	[-24.49, 70.91]	0.339		28.83	[-19.81, 77.46]	0.245
32	29.14	[-23.07, 81.34]	0.273		26.48	[-27.59, 80.55]	0.336		32.90	[-22.21, 88.02]	0.241
33	33.10	[-25.65, 91.86]	0.269		29.95	[-30.95, 90.85]	0.334		37.24	[-24.80, 99.28]	0.239
34	37.25	[-28.41, 102.91]	0.265		33.54	[-34.56, 101.64]	0.333		41.75	[-27.58, 111.08]	0.237
35	41.50	[-31.33, 114.34]	0.263		37.18	[-38.39, 112.76]	0.334		46.35	[-30.54, 123.24]	0.237
36	45.82	[-34.42, 126.05]	0.262		40.83	[-42.48, 124.13]	0.336		50.99	[-33.69, 135.67]	0.237
37	50.16	[-37.71, 138.02]	0.262		44.44	[-46.83, 135.71]	0.339		55.63	[-37.06, 148.32]	0.239
38	54.49	[-41.25, 150.24]	0.264		47.99	[-51.51, 147.49]	0.344		60.25	[-40.69, 161.19]	0.241
39	58.81	[-45.09, 162.71]	0.266		51.46	[-56.55, 159.47]	0.349		64.82	[-44.63, 174.28]	0.245
40	63.11	[-49.28, 175.50]	0.270		54.84	[-62.03, 171.72]	0.357		69.35	[-48.94, 187.64]	0.250

Note: All results were not significant after BY correction

Supplementary Table S5: Weekly estimated fetal weight change (in grams) for the highest quartile of GRS*eas* related-T2D among East Asian American women (n=202 from the NICHD Fetal Growth Studies–Singleton cohort). Adjusted for pre-pregnancy BMI, offspring sex and for the first 5 genetic principal components.

	Among East Asian American women (n=202)				**Among East Asian American women further adjusted for glucose challenge test result (n=202)**				**Among East Asian American women with normal glucose tolerance (n=162)**		
Gestational week	β	[95% CI]	p-value		β	[95% CI]	p-value		β	[95% CI]	p-value
13	2.06	[-0.78, 4.91]	0.155		1.78	[-1.10, 4.66]	0.225		1.04	[-2.2, 4.27]	0.528
14	2.58	[-1.03, 6.18]	0.160		2.22	[-1.43, 5.86]	0.232		1.32	[-2.78, 5.41]	0.526
15	3.22	[-1.34, 7.78]	0.166		2.76	[-1.86, 7.38]	0.240		1.68	[-3.5, 6.86]	0.523
16	4.00	[-1.76, 9.77]	0.172		3.43	[-2.41, 9.27]	0.248		2.13	[-4.42, 8.68]	0.521
17	4.95	[-2.30, 12.19]	0.180		4.22	[-3.12, 11.57]	0.258		2.68	[-5.54, 10.9]	0.520
18	6.04	[-2.98, 15.07]	0.188		5.15	[-4.00, 14.31]	0.268		3.35	[-6.88, 13.58]	0.519
19	7.29	[-3.83, 18.41]	0.198		6.20	[-5.08, 17.49]	0.280		4.13	[-8.46, 16.72]	0.518
20	8.67	[-4.88, 22.22]	0.208		7.37	[-6.4, 21.13]	0.292		5.03	[-10.3, 20.35]	0.518
21	10.19	[-6.15, 26.53]	0.220		8.64	[-7.97, 25.24]	0.306		6.05	[-12.41, 24.5]	0.518
22	11.82	[-7.70, 31.34]	0.234		10.01	[-9.85, 29.86]	0.321		7.19	[-14.82, 29.2]	0.520
23	13.55	[-9.57, 36.67]	0.249		11.45	[-12.08, 34.98]	0.338		8.46	[-17.56, 34.48]	0.522
24	15.35	[-11.82, 42.52]	0.266		12.96	[-14.71, 40.63]	0.357		9.85	[-20.66, 40.37]	0.524
25	17.19	[-14.51, 48.90]	0.286		14.50	[-17.81, 46.82]	0.377		11.36	[-24.16, 46.88]	0.528
26	19.04	[-17.72, 55.81]	0.308		16.05	[-21.46, 53.55]	0.400		12.98	[-28.11, 54.07]	0.533
27	20.85	[-21.56, 63.27]	0.333		17.56	[-25.74, 60.86]	0.424		14.70	[-32.56, 61.97]	0.540
28	22.58	[-26.13, 71.29]	0.362		19.01	[-30.76, 68.78]	0.452		16.52	[-37.6, 70.63]	0.547
29	24.16	[-31.56, 79.89]	0.393		20.33	[-36.65, 77.32]	0.482		18.40	[-43.31, 80.11]	0.557
30	25.50	[-38.00, 88.99]	0.429		21.46	[-43.51, 86.43]	0.515		20.31	[-49.75, 90.38]	0.568
31	26.47	[-45.53, 98.47]	0.469		22.29	[-51.43, 96.01]	0.551		22.19	[-56.96, 101.34]	0.580
32	26.93	[-54.28, 108.14]	0.514		22.70	[-60.5, 105.90]	0.591		23.96	[-64.97, 112.89]	0.595
33	26.75	[-64.31, 117.81]	0.563		22.58	[-70.77, 115.93]	0.634		25.52	[-73.8, 124.83]	0.612
34	25.78	[-75.67, 127.23]	0.617		21.81	[-82.23, 125.85]	0.680		26.77	[-83.42, 136.96]	0.632
35	23.88	[-88.38, 136.13]	0.675		20.27	[-94.89, 135.43]	0.729		27.60	[-93.82, 149.03]	0.654
36	20.96	[-102.50, 144.42]	0.738		17.90	[-108.79, 144.59]	0.781		27.95	[-105.06, 160.96]	0.679
37	16.95	[-118.14, 152.05]	0.805		14.63	[-124.02, 153.28]	0.835		27.74	[-117.22, 172.71]	0.706
38	11.80	[-135.43, 159.02]	0.875		10.41	[-140.69, 161.51]	0.892		26.93	[-130.46, 184.31]	0.736
39	5.43	[-154.51, 165.37]	0.947		5.19	[-158.94, 169.32]	0.950		25.44	[-144.92, 195.81]	0.768
40	-2.21	[-175.57, 171.15]	0.980		-1.09	[-178.94, 176.77]	0.990		23.25	[-160.82, 207.31]	0.803

Note: All results were not significant after BY correction

Supplementary Table S6: Additional variation (%) explained by GRS (N=1,513 pregnant women from the NICHD fetal growth Studies – Singletons).

A- ancestry-matched

Ancestry-matched GRS	**Longitudinal fetal weight**	**Birth weight**
GRS*eur* among European American women	$1.50x10^{-03}$	0.443
GRS*afr* among African American women	$3.05x10^{-04}$	-0.116
GRS*eas* among East Asian American women	$1.81x10^{-04}$	-0.458

B- cross-ancestry

		GRS*eur*	GRS*afr*	GRS*eas*
Longitudinal fetal weight	European American	NA	$4.16x10^{-04}$	$1.76x10^{-03}$
	Hispanic American	$4.57x10^{-05}$	$3.62x10^{-04}$	$1.11x10^{-03}$
	African American	$3.97x10^{-05}$	NA	$2.47x10^{-04}$
	East Asian American	$2.29x10^{-04}$	$1.85x10^{-04}$	NA
Birth weight	European American	NA	0.209	0.115
	Hispanic American	-0.022	0.086	0.254
	African American	0.037	NA	-0.084
	East Asian American	-0.376	-0.408	NA

NA: not applicable. Indicates ancestry-matched that are presented in Table S6-A.