

**Supplementary Table 1. Association of Best SNPs in African Americans with Fasting Glucose and Fasting Insulin in European Ancestry Populations**

Nearest gene(s)	Chr	Position	Best SNP <sup>a</sup>	Allele <sup>b</sup>	EAFC <sup>c</sup>	Effect <sup>d</sup>	95% C.I.	P-value
<b>Fasting Glucose associated loci</b>								
<i>PROX1</i>	1	212261507	rs7519597	N/A	N/A	N/A	N/A	N/A
<i>G6PC2</i>	2	169509734	rs853789	A/G	0.375	-0.068	-0.076--0.060	<b>1.91x10<sup>-67</sup></b>
<i>GCKR</i>	2	27438170	rs7586601	A/G	0.553	-0.019	-0.026--0.011	<b>4.28x10<sup>-7</sup></b>
<i>ADCY5</i>	3	124552510	rs10934645	A/G	0.170	0.007	-0.011-0.024	4.54x10 <sup>-1</sup>
<i>SLC2A2</i>	3	172296993	rs9827202	T/C	0.090	0.006	-0.007-0.020	3.50x10 <sup>-1</sup>
<i>GCK</i>	7	44195593	rs1799884	T/C	0.169	0.062	0.053-0.072	<b>6.36x10<sup>-37</sup></b>
<i>DGKB-TMEM195</i>	7	15111235	rs17327498	A/G	0.942	0.002	-0.015-0.019	8.23x10 <sup>-1</sup>
<i>SLC30A8</i>	8	118304453	rs2649098	T/C	0.168	-0.003	-0.015-0.009	6.56x10 <sup>-1</sup>
<i>GLIS3</i>	9	4319209	rs3895473	A/G	0.780	0.007	-0.003-0.017	2.03x10 <sup>-1</sup>
<i>ADRA2A</i>	10	112913361	rs7908674	A/G	0.465	0.001	-0.006-0.009	7.58x10 <sup>-1</sup>
<i>TCF7L2</i>	10	114852926	rs7909517	N/A	N/A	N/A	N/A	N/A
<i>MTNR1B</i>	11	92348358	rs10830963	C/G	0.708	-0.079	-0.087--0.070	<b>1.26x10<sup>-68</sup></b>
<i>MADD</i>	11	47200241	rs1685404	C/G	0.355	0.000	-0.008-0.008	9.53x10 <sup>-1</sup>
<i>FADS1</i>	11	61525549	rs7937198	A/G	0.635	0.003	-0.005-0.010	4.62x10 <sup>-1</sup>
<i>CRY2</i>	11	45829667	rs11605924	A/C	0.492	0.022	0.015-0.029	1.52x10 <sup>-9</sup>
<i>C2CD4B</i>	15	60165933	rs893157	T/C	0.516	-0.007	-0.014-0.001	6.92x10 <sup>-2</sup>
<b>Fasting Insulin associated loci</b>								
<i>GCKR</i>	2	27438170	rs7586601	A/G	0.553	-0.009	-0.017--0.002	1.70x10 <sup>-2</sup>
<i>IGF1</i>	12	101508605	rs7970320	T/C	0.598	0.000	-0.008-0.007	9.18x10 <sup>-1</sup>
<b>T2D associated loci</b>								
<i>THADA</i>	2	43529402	rs6724325	N/A	N/A	N/A	N/A	N/A
<i>ADAMTS9</i>	3	64659981	rs4688504	T/C	0.468	-0.003	-0.010-0.005	4.89x10 <sup>-1</sup>
<i>IGF2BP2</i>	3	186919528	rs7627308	N/A	N/A	N/A	N/A	N/A
<i>ZBED3</i>	5	76454133	rs12517269	A/G	0.856	0.016	0.006-0.027	<b>3.00x10<sup>-3</sup></b>
<i>CDKAL1</i>	6	21008207	rs9368255	T/C	0.847	-0.013	-0.031-0.005	1.45x10 <sup>-1</sup>
<i>TP53INP1</i>	8	96036332	rs509594	C/G	0.587	-0.011	-0.018--0.003	<b>4.27x10<sup>-3</sup></b>
<i>SLC30A8</i>	8	118304453	rs2649098	T/C	0.168	-0.003	-0.015-0.009	6.56x10 <sup>-1</sup>
<i>CDKN2A/B</i>	9	22293465	rs10965319	A/T	0.593	-0.002	-0.010-0.007	7.06x10 <sup>-1</sup>
<i>CDC123/CAMKID</i>	10	12446905	rs7074893	T/G	0.934	-0.009	-0.040-0.022	5.81x10 <sup>-1</sup>
<i>HHEX</i>	10	94576008	rs11187186	T/C	0.593	-0.003	-0.010-0.005	4.89x10 <sup>-1</sup>
<i>KCNQ1</i>	11	2490838	rs2011766	T/C	0.183	-0.013	-0.023--0.004	<b>4.93x10<sup>-3</sup></b>
<i>CENTD2</i>	11	72067275	rs6592481	T/C	0.088	0.007	-0.006-0.021	2.77x10 <sup>-1</sup>
<i>MTNR1B</i>	11	92348358	rs10830963	C/G	0.708	-0.079	-0.087--0.070	<b>1.26x10<sup>-68</sup></b>
<i>PRC1</i>	15	89195519	rs10083635	N/A	N/A	N/A	N/A	N/A

<sup>a</sup>. The best SNP in African American from Table 3 and Table 5

<sup>b</sup>. Effect (trait-raising)/Other allele

<sup>c</sup>. EAF=Effect allele frequency

<sup>d</sup> Unit: (mmol/L) per effect allele