

# Supplementary Materials: Tissue Non-Specific Genes and Pathways Associated with Diabetes: An Expression Meta-Analysis

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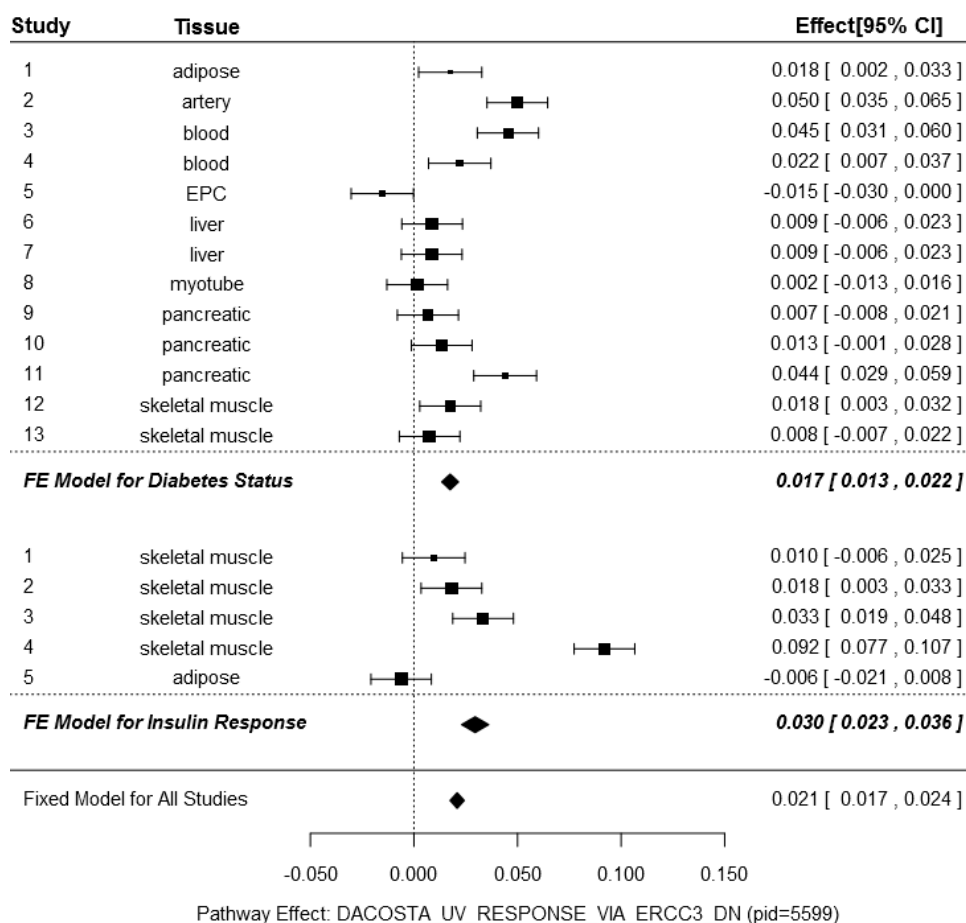
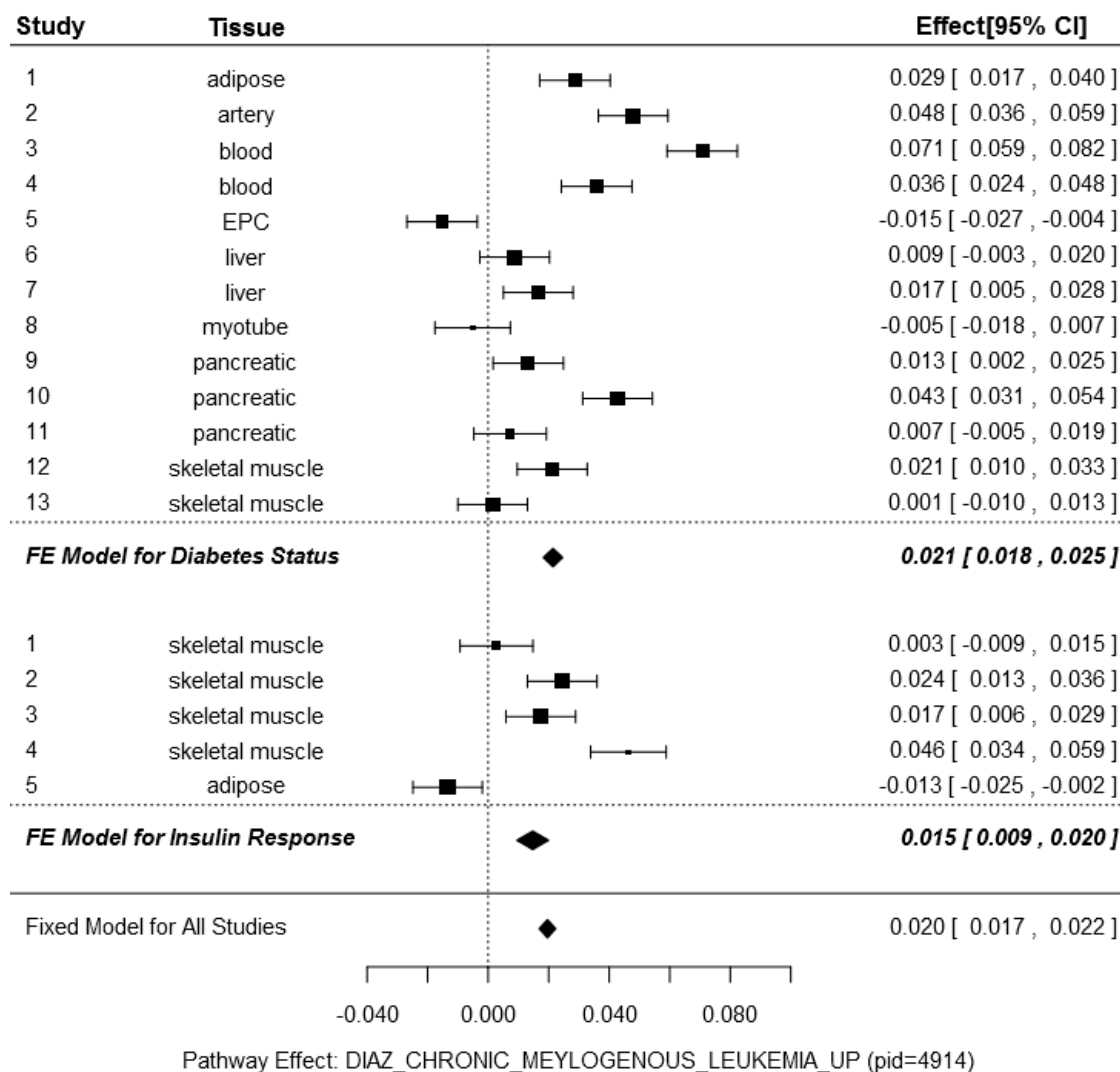


Figure S1. Forest plot of UV response (DACOSTA\_UV\_RESPONSE\_VIA\_ERCC3\_DN).



**Figure S2.** Forest plot of chronic myelogenous leukemia (DIAZ\_CHRONIC\_MEYLOGENOUS\_LEUKEMIA\_UP).

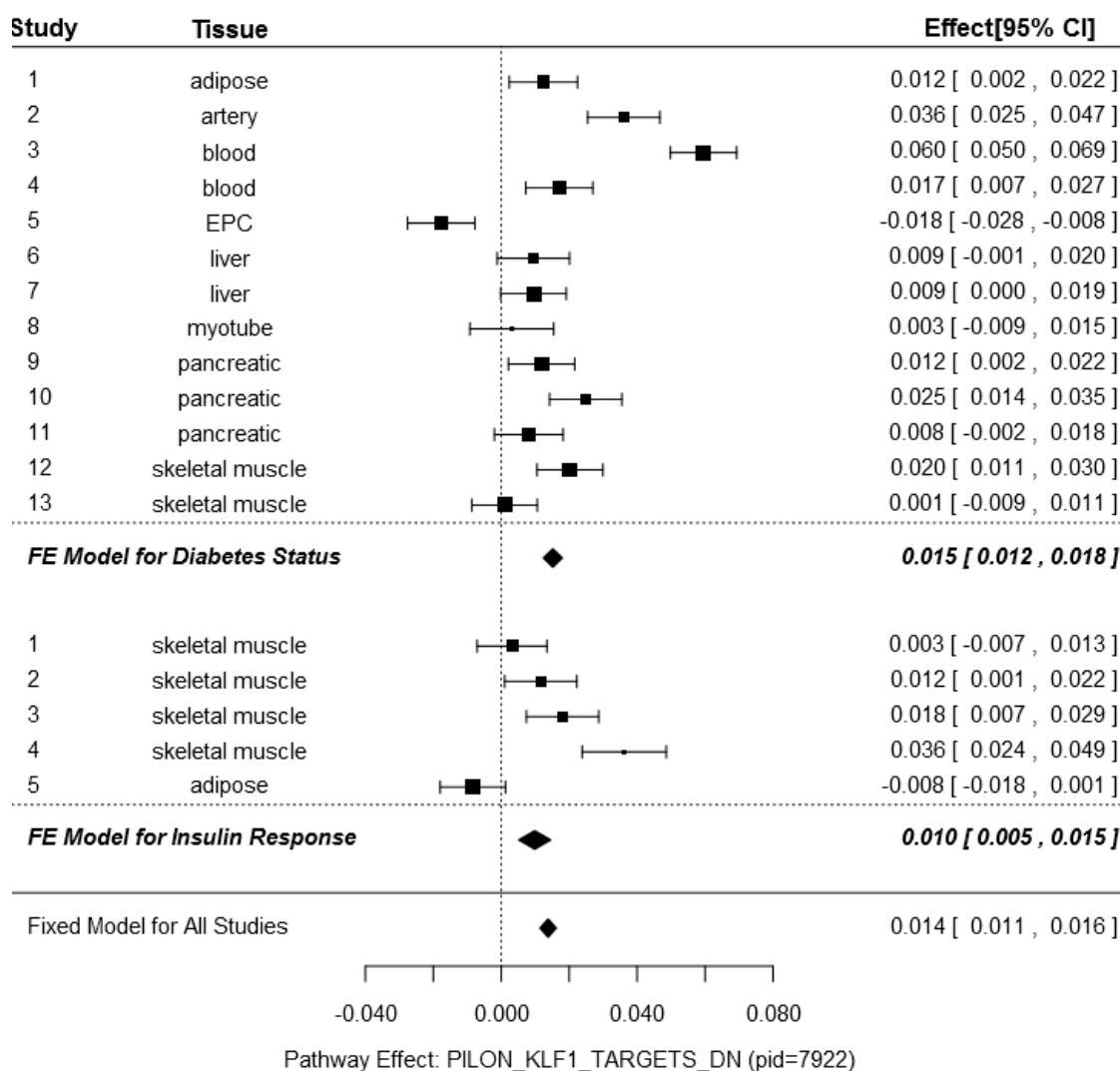


Figure S3. Forest plot of KLF1 targets (PILON\_KLF1\_TARGETS\_DN).

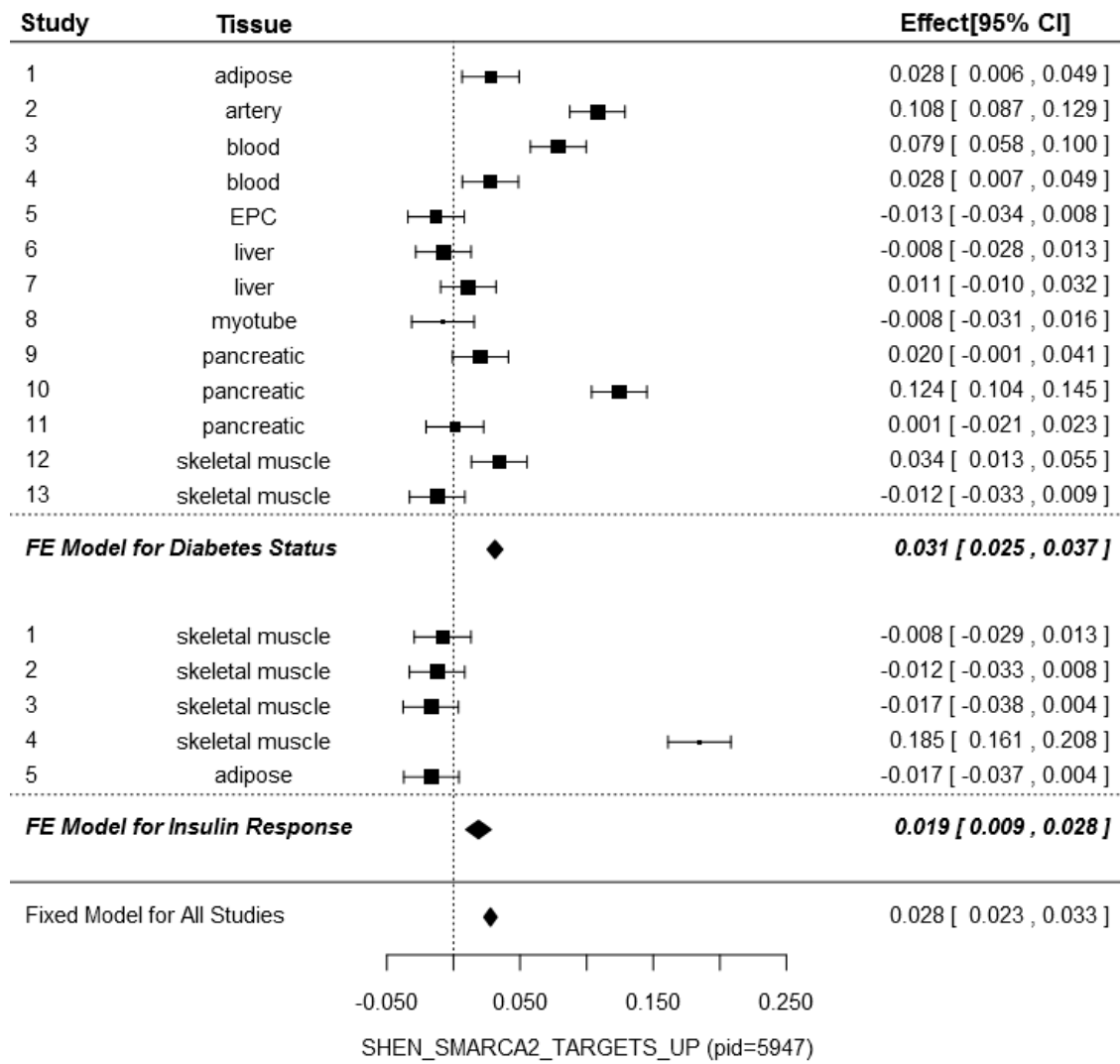


Figure S4. Forest plot of SMARCA2 targets (SHEN\_SMARCA2\_TARGETS\_UP).

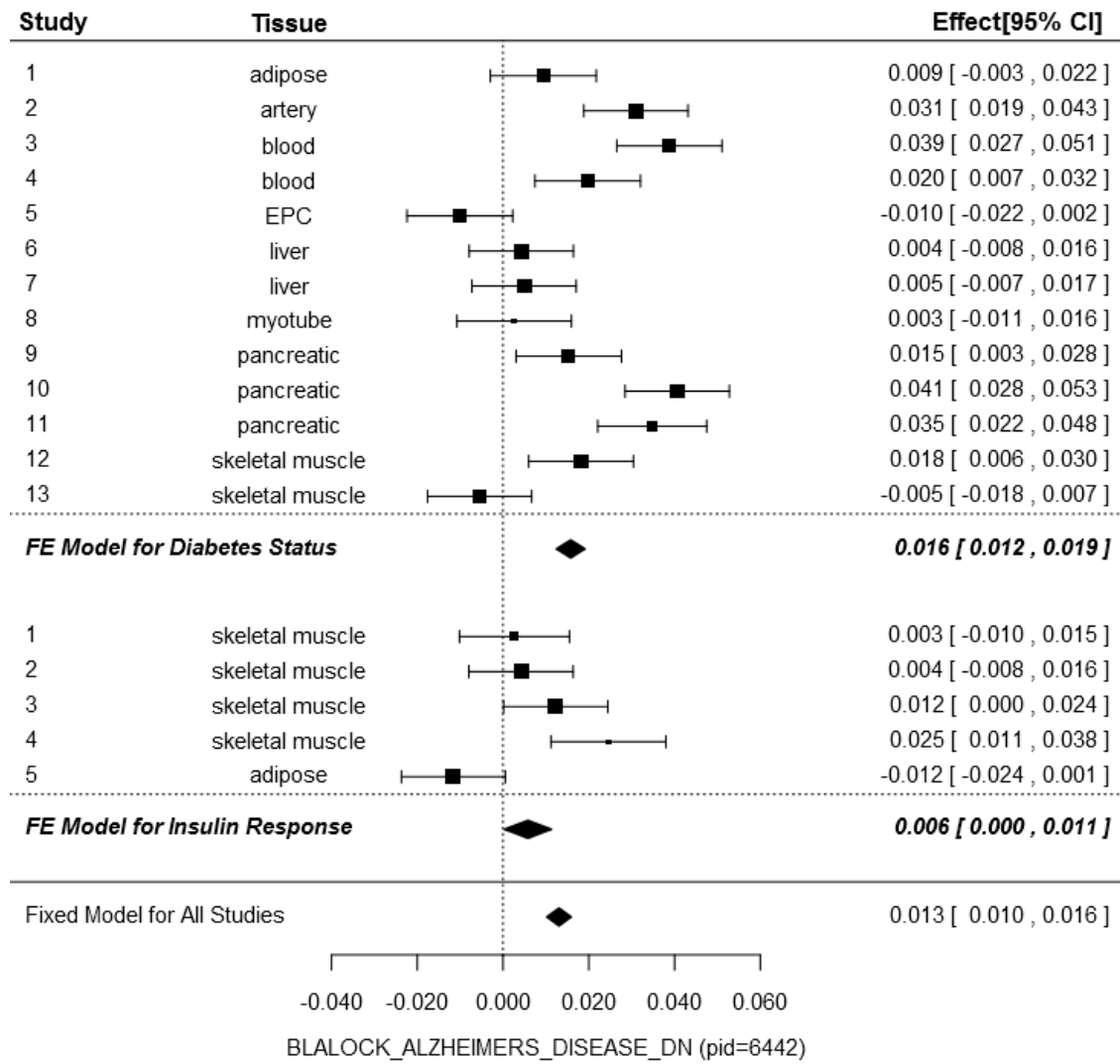


Figure S5. Forest plot of Alzheimer's disease (BLALOCK\_ALZHEIMERS\_DISEASE\_DN).

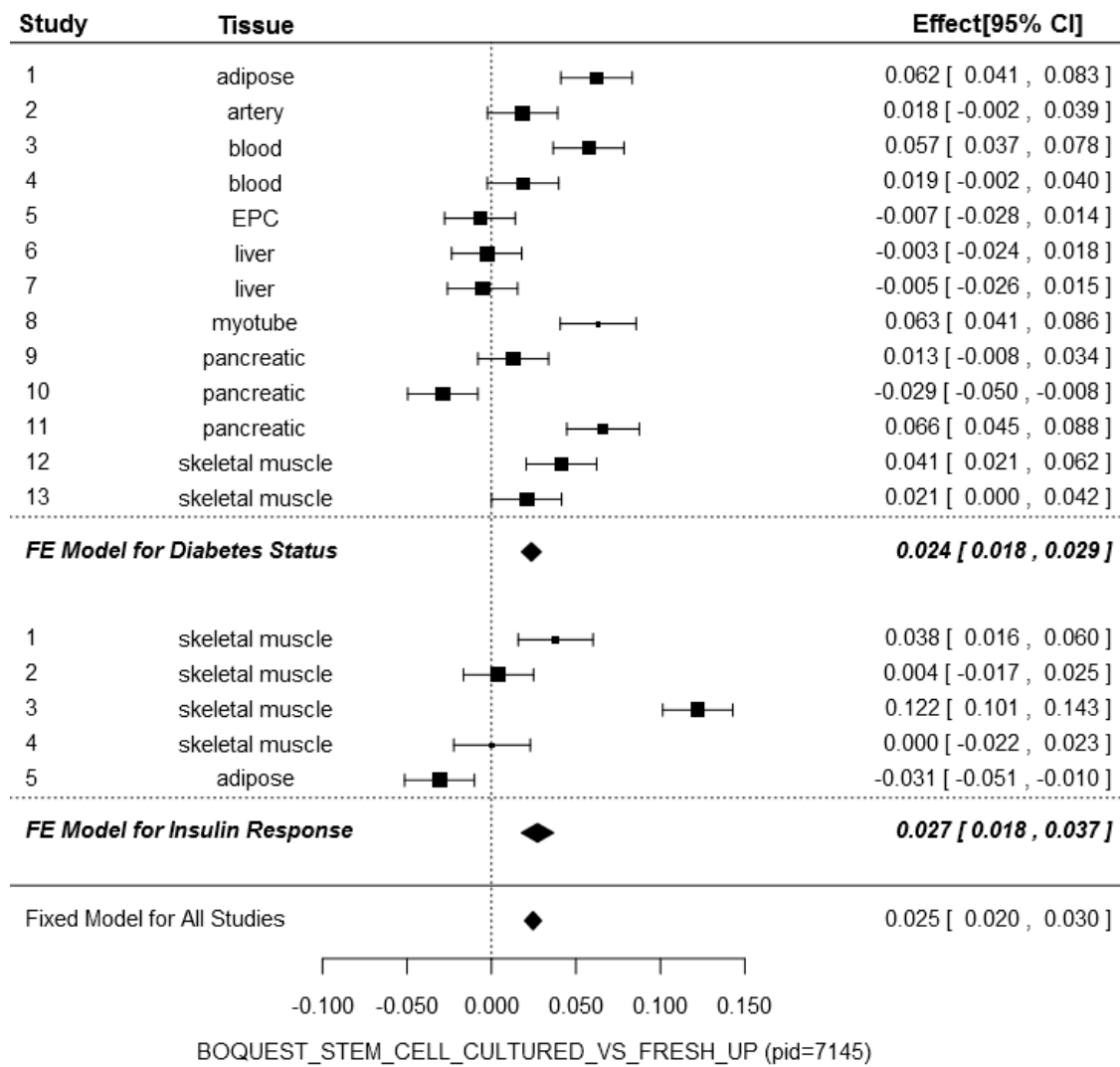


Figure S6. Forest plot of stromal stem cells (BOQUEST\_STEM\_CELL\_CULTURED\_VS\_FRESH\_UP).

**Table S1.** Description of differentially expressed genes.

Full Name	Symbol	Entrez ID	Map	Strand	Start (bp)	End (bp)
progesterone receptor membrane component 1	PGRMC1	10857	Xq22-q24	+	118370211	118378429
hydroxyacyl-CoA dehydrogenase	HADH	3033	4q22-q26	+	108910870	108956331
insulin receptor substrate 1	IRS1	3667	2q36	-	227596033	227664545
mercaptopyruvate sulfurtransferase	MPST	4357	22q13.1	+	37415683	37425863

**Table S2.** Description of significantly identified gene sets.

Gene Set	Name	PUBMED ID
UV response <sup>1</sup>	DACOSTA_UV_RESPONSE_VIA_ERCC3_DN	15608684
chronic myelogenous leukemia <sup>2</sup>	DIAZ_CHRONIC_MEYLOGENOUS_LEUKEMIA_UP	17252012
KLF1 targets <sup>3</sup>	PILON_KLF1_TARGETS_DN	18852285
SMARCA2 targets <sup>4</sup>	SHEN_SMARCA2_TARGETS_UP	19074882
Alzheimer's disease <sup>5</sup>	BLALOCK_ALZHEIMERS_DISEASE_DN	14769913
stromal stem cells of adipose <sup>6</sup>	BOQUEST_STEM_CELL_CULTURED_VS_FRESH_UP	15635089

<sup>1</sup> [http://software.broadinstitute.org/gsea/msigdb/cards/DACOSTA\\_UV\\_RESPONSE\\_VIA\\_ERCC3\\_DN](http://software.broadinstitute.org/gsea/msigdb/cards/DACOSTA_UV_RESPONSE_VIA_ERCC3_DN); <sup>2</sup> [http://software.broadinstitute.org/gsea/msigdb/cards/DIAZ\\_CHRONIC\\_MEYLOGENOUS\\_LEUKEMIA\\_UP](http://software.broadinstitute.org/gsea/msigdb/cards/DIAZ_CHRONIC_MEYLOGENOUS_LEUKEMIA_UP);

<sup>3</sup> [http://software.broadinstitute.org/gsea/msigdb/cards/PILON\\_KLF1\\_TARGETS\\_DN](http://software.broadinstitute.org/gsea/msigdb/cards/PILON_KLF1_TARGETS_DN);

[http://software.broadinstitute.org/gsea/msigdb/cards/SHEN\\_SMARCA2\\_TARGETS\\_UP](http://software.broadinstitute.org/gsea/msigdb/cards/SHEN_SMARCA2_TARGETS_UP);

[http://software.broadinstitute.org/gsea/msigdb/cards/BLALOCK\\_ALZHEIMERS\\_DISEASE\\_DN](http://software.broadinstitute.org/gsea/msigdb/cards/BLALOCK_ALZHEIMERS_DISEASE_DN);

[http://software.broadinstitute.org/gsea/msigdb/cards/BOQUEST\\_STEM\\_CELL\\_CULTURED\\_VS\\_FRESH\\_UP](http://software.broadinstitute.org/gsea/msigdb/cards/BOQUEST_STEM_CELL_CULTURED_VS_FRESH_UP).

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**Table S3.** Gene set enrichment analysis of UV response.

Diabetes								
Study	GDS_ID	genes	sigGenes	effect	SE	pval	adjP	tissue
1	GDS3665	785	53	0.018	0.008	0.011	≥0.05	adipose
2	GDS3980	851	85	0.050	0.007	1.77E-10	1.00E-04	artery
3	GDS3874/GDS3875	851	82	0.045	0.008	8.69E-09	3.00E-04	blood
4	GDS3963	805	58	0.022	0.008	0.002	≥0.05	blood
5	GDS3656	806	28	-0.015	0.008	0.979	≥0.05	EPC
6	GDS3876	851	50	0.009	0.007	0.099	≥0.05	liver
7	GDS3883	852	50	0.009	0.007	0.107	>0.05	liver
8	GDS3681	852	44	0.002	0.007	0.374	≥0.05	myotube
9	GDS3782	852	49	0.007	0.008	0.160	≥0.05	pancreatic
10	GDS3882	851	54	0.013	0.007	0.030	≥0.05	pancreatic
11	GDS4337	797	75	0.044	0.008	4.40E-08	0.0018	pancreatic
12	GDS3880	852	58	0.018	0.008	0.009	≥0.05	skeletal muscle
13	GDS3884	852	49	0.008	0.007	0.134	≥0.05	skeletal muscle
Insulin response								
1	GDS157/GDS158/GDS160/ GDS161/GDS162	803	48	0.010	0.008	0.090	≥0.05	skeletal muscle
2	GDS2790/GDS2791	851	58	0.018	0.007	0.006	≥0.05	skeletal muscle
3	GDS3181	851	71	0.033	0.007	6.68E-06	≥0.05	skeletal muscle
4	GDS3715	852	121	0.092	0.007	8.33E-29	<1.00E-04	skeletal muscle
5	GDS3781/GDS3962	852	37	-0.006	0.007	0.776	≥0.05	adipose

GDS\_ID: the identifier of the curated GEO dataset; genes: the number of genes in the gene set with expression measured; sigGenes: the number of significant genes (i.e.,  $U$ -score  $\leq 0.05$ ) in the gene set; effect: estimated enrichment effect; SE: the estimated standard error of effect; pval: unadjusted  $p$ -value of enrichment test; adj P: adjusted  $p$ -value of enrichment test.



**Table S4.** Gene set enrichment analysis of chronic myelogenous leukemia.

<b>Diabetes</b>								
Study	GDS_ID	genes	sigGenes	effect	SE	pval	adjP	tissue
<b>1</b>	<b>GDS3665</b>	<b>1347</b>	<b>106</b>	<b>0.029</b>	<b>0.006</b>	<b>8.69E-07</b>	<b>0.0307</b>	<b>adipose</b>
<b>2</b>	<b>GDS3980</b>	<b>1379</b>	<b>135</b>	<b>0.048</b>	<b>0.006</b>	<b>1.56E-15</b>	<b>&lt;1.00E-04</b>	<b>artery</b>
<b>3</b>	<b>GDS3874/GDS3875</b>	<b>1380</b>	<b>168</b>	<b>0.071</b>	<b>0.006</b>	<b>8.22E-28</b>	<b>&lt;1.00E-04</b>	<b>blood</b>
<b>4</b>	<b>GDS3963</b>	<b>1340</b>	<b>115</b>	<b>0.036</b>	<b>0.006</b>	<b>2.68E-09</b>	<b>1.00E-04</b>	<b>blood</b>
5	GDS3656	1351	47	-0.015	0.006	0.997	≥0.05	EPC
6	GDS3876	1379	81	0.009	0.006	0.052	≥0.05	liver
7	GDS3883	1380	92	0.017	0.006	0.002	≥0.05	liver
8	GDS3681	1179	53	-0.005	0.006	0.785	≥0.05	myotube
9	GDS3782	1374	88	0.013	0.006	0.010	≥0.05	pancreatic
<b>10</b>	<b>GDS3882</b>	<b>1379</b>	<b>128</b>	<b>0.043</b>	<b>0.006</b>	<b>6.14E-13</b>	<b>&lt;1.00E-04</b>	<b>pancreatic</b>
11	GDS4337	1273	73	0.007	0.006	0.098	≥0.05	pancreatic
12	GDS3880	1380	99	0.021	0.006	0.000	≥0.05	skeletal muscle
13	GDS3884	1380	71	0.001	0.006	0.366	≥0.05	skeletal muscle
<b>Insulin response</b>								
1	GDS157/GDS158/GDS160/GDS161/GDS162	1264	67	0.003	0.006	0.291	≥0.05	skeletal muscle
2	GDS2790/GDS2791	1382	103	0.024	0.006	1.12E-05	≥0.05	skeletal muscle
3	GDS3181	1379	93	0.017	0.006	0.001	≥0.05	skeletal muscle
<b>4</b>	<b>GDS3715</b>	<b>1172</b>	<b>113</b>	<b>0.046</b>	<b>0.006</b>	<b>3.08E-13</b>	<b>&lt;1.00E-04</b>	<b>skeletal muscle</b>
5	GDS3781/GDS3962	1380	50	-0.013	0.006	0.992	≥0.05	adipose

Refer to the legend of Table S3 for explanation of the column titles. The bold font indicates the significant enrichment analysis with adjusted  $p$ -value  $\leq 0.05$

**Table S5.** Gene set enrichment analysis of KLF1 targets.

<b>Diabetes</b>								
Study	GDS_ID	genes	sigGenes	effect	SE	pval	adjP	tissue
1	GDS3665	1810	113	0.012	0.005	0.005	≥0.05	adipose
2	<b>GDS3980</b>	<b>1615</b>	<b>139</b>	<b>0.036</b>	<b>0.005</b>	<b>1.44E-11</b>	<b>&lt;1.00E-04</b>	<b>artery</b>
3	<b>GDS3874/GDS3875</b>	<b>1954</b>	<b>216</b>	<b>0.060</b>	<b>0.005</b>	<b>4.89E-30</b>	<b>&lt;1.00E-04</b>	<b>blood</b>
4	GDS3963	1879	126	0.017	0.005	0.000	≥0.05	blood
5	GDS3656	1855	60	-0.018	0.005	1.000	≥0.05	EPC
6	GDS3876	1615	96	0.009	0.005	0.029	≥0.05	liver
7	GDS3883	1963	117	0.009	0.005	0.020	≥0.05	liver
8	GDS3681	1203	64	0.003	0.006	0.269	≥0.05	myotube
9	GDS3782	1947	122	0.012	0.005	0.006	≥0.05	pancreatic
10	<b>GDS3882</b>	<b>1615</b>	<b>121</b>	<b>0.025</b>	<b>0.005</b>	<b>1.31E-06</b>	<b>0.0443</b>	<b>pancreatic</b>
11	GDS4337	1787	104	0.008	0.005	0.045	≥0.05	pancreatic
12	GDS3880	1963	139	0.020	0.005	0.000	≥0.05	skeletal muscle
13	GDS3884	1963	100	0.001	0.005	0.391	≥0.05	skeletal muscle
<b>Insulin response</b>								
1	GDS157/GDS158/GDS160 /GDS161/GDS162	1740	93	0.003	0.005	0.236	≥0.05	skeletal muscle
2	GDS2790/GDS2791	1621	100	0.012	0.005	0.011	≥0.05	skeletal muscle
3	GDS3181	1615	110	0.018	0.005	0.000	≥0.05	skeletal muscle
4	<b>GDS3715</b>	<b>1194</b>	<b>103</b>	<b>0.036</b>	<b>0.006</b>	<b>3.44E-09</b>	<b>1.00E-04</b>	<b>skeletal muscle</b>
5	GDS3781/GDS3962	1963	81	-0.008	0.005	0.962	≥0.05	adipose

Refer to the legend of Table S3 for explanation of the column titles. The bold font indicates the significant enrichment analysis with adjusted  $p$ -value  $\leq 0.05$ .

Table S6. Gene set enrichment analysis of SMARCA2 targets.

Diabetes								
Study	GDS_ID	genes	sigGenes	effect	SE	pval	adjP	tissue
1	GDS3665	398	31	0.028	0.011	0.006	≥0.05	adipose
2	<b>GDS3980</b>	<b>424</b>	<b>67</b>	<b>0.108</b>	<b>0.011</b>	<b>5.09E-18</b>	<b>&lt;1.00E-04</b>	<b>artery</b>
3	<b>GDS3874/GDS3875</b>	<b>424</b>	<b>55</b>	<b>0.079</b>	<b>0.011</b>	<b>5.92E-11</b>	<b>&lt;1.00E-04</b>	<b>blood</b>
4	GDS3963	412	32	0.028	0.011	0.005	≥0.05	blood
5	GDS3656	406	15	-0.013	0.011	0.868	≥0.05	EPC
6	GDS3876	424	18	-0.008	0.011	0.722	≥0.05	liver
7	GDS3883	424	26	0.011	0.011	0.121	≥0.05	liver
8	GDS3681	332	14	-0.008	0.012	0.698	≥0.05	myotube
9	GDS3782	422	30	0.020	0.011	0.026	≥0.05	pancreatic
10	<b>GDS3882</b>	<b>424</b>	<b>74</b>	<b>0.124</b>	<b>0.011</b>	<b>2.20E-22</b>	<b>&lt;1.00E-04</b>	<b>pancreatic</b>
11	GDS4337	391	20	0.001	0.011	0.402	≥0.05	pancreatic
12	GDS3880	424	36	0.034	0.011	0.001	≥0.05	skeletal muscle
13	GDS3884	424	16	-0.012	0.011	0.856	≥0.05	skeletal muscle
Insulin response								
1	GDS157/GDS158/GDS160/GDS161/GDS162	404	17	-0.008	0.011	0.735	≥0.05	skeletal muscle
2	GDS2790/GDS2791	424	16	-0.012	0.011	0.859	≥0.05	skeletal muscle
3	GDS3181	424	14	-0.017	0.011	0.942	≥0.05	skeletal muscle
4	<b>GDS3715</b>	<b>328</b>	<b>77</b>	<b>0.185</b>	<b>0.012</b>	<b>6.15E-33</b>	<b>&lt;1.00E-04</b>	<b>skeletal muscle</b>
5	GDS3781/GDS3962	424	14	-0.017	0.011	0.936	≥0.05	adipose

Refer to the legend of Table S3 for explanation of the column titles. The bold font indicates the significant enrichment analysis with adjusted  $p$ -value  $\leq 0.05$ .

**Table S7.** Gene set enrichment analysis of Alzheimer's disease.

<b>Diabetes</b>								
Study	GDS_ID	genes	sigGenes	effect	SE	pval	adjP	tissue
1	GDS3665	1195	71	0.009	0.006	0.056	≥0.05	adipose
2	<b>GDS3980</b>	<b>1235</b>	<b>100</b>	<b>0.031</b>	<b>0.006</b>	<b>3.40E-07</b>	<b>0.0127</b>	<b>artery</b>
3	<b>GDS3874/GDS3875</b>	<b>1236</b>	<b>111</b>	<b>0.039</b>	<b>0.006</b>	<b>1.36E-09</b>	<b>1.00E-04</b>	<b>blood</b>
4	GDS3963	1205	84	0.020	0.006	0.001	≥0.05	blood
5	GDS3656	1202	48	-0.010	0.006	0.948	≥0.05	EPC
6	GDS3876	1235	67	0.004	0.006	0.212	≥0.05	liver
7	GDS3883	1236	68	0.005	0.006	0.187	≥0.05	liver
8	GDS3681	1025	54	0.003	0.007	0.310	≥0.05	myotube
9	GDS3782	1225	81	0.015	0.006	0.006	≥0.05	pancreatic
10	<b>GDS3882</b>	<b>1235</b>	<b>112</b>	<b>0.041</b>	<b>0.006</b>	<b>9.47E-11</b>	<b>&lt;1.00E-04</b>	<b>pancreatic</b>
11	<b>GDS4337</b>	<b>1131</b>	<b>96</b>	<b>0.035</b>	<b>0.006</b>	<b>1.08E-07</b>	<b>0.0038</b>	<b>pancreatic</b>
12	GDS3880	1236	85	0.018	0.006	0.002	≥0.05	skeletal muscle
13	GDS3884	1236	55	-0.005	0.006	0.799	≥0.05	skeletal muscle
<b>Insulin response</b>								
1	GDS157/GDS158/GDS160 /GDS161/GDS162	1115	59	0.003	0.007	0.305	≥0.05	skeletal muscle
2	GDS2790/GDS2791	1235	67	0.004	0.006	0.216	≥0.05	skeletal muscle
3	GDS3181	1235	77	0.012	0.006	0.018	≥0.05	skeletal muscle
4	GDS3715	1018	76	0.025	0.007	0.000	≥0.05	skeletal muscle
5	GDS3781/GDS3962	1236	47	-0.012	0.006	0.973	≥0.05	adipose

Refer to the legend of Table S3 for explanation of the column titles. The bold font indicates the significant enrichment analysis with adjusted  $p$ -value  $\leq 0.05$ .

**Table S8.** Gene set enrichment analysis of stromal stem cells.

<b>Diabetes</b>								
Study	GDS_ID	genes	sigGenes	effect	SE	pval	adjP	tissue
<b>1</b>	<b>GDS3665</b>	<b>410</b>	<b>46</b>	<b>0.062</b>	<b>0.011</b>	<b>9.49E-08</b>	<b>0.0033</b>	<b>adipose</b>
2	GDS3980	424	29	0.018	0.011	0.035	≥0.05	artery
<b>3</b>	<b>GDS3874/GDS3875</b>	<b>424</b>	<b>46</b>	<b>0.057</b>	<b>0.011</b>	<b>4.79E-07</b>	<b>0.0201</b>	<b>blood</b>
4	GDS3963	408	28	0.019	0.011	0.036	≥0.05	blood
5	GDS3656	417	18	-0.007	0.011	0.695	≥0.05	EPC
6	GDS3876	424	20	-0.003	0.011	0.550	≥0.05	liver
7	GDS3883	424	19	-0.005	0.011	0.643	≥0.05	liver
<b>8</b>	<b>GDS3681</b>	<b>362</b>	<b>41</b>	<b>0.063</b>	<b>0.011</b>	<b>2.48E-07</b>	<b>0.008</b>	<b>myotube</b>
9	GDS3782	424	27	0.013	0.011	0.094	≥0.05	pancreatic
10	GDS3882	424	9	-0.029	0.011	0.998	≥0.05	pancreatic
<b>11</b>	<b>GDS4337</b>	<b>396</b>	<b>46</b>	<b>0.066</b>	<b>0.011</b>	<b>3.54E-08</b>	<b>0.0016</b>	<b>pancreatic</b>
12	GDS3880	424	39	0.041	0.011	0.000	≥0.05	skeletal muscle
13	GDS3884	424	30	0.021	0.011	0.022	≥0.05	skeletal muscle
Insulin response								
1	GDS157/GDS158/GDS160 /GDS161/GDS162	374	33	0.038	0.011	0.001	≥0.05	skeletal muscle
2	GDS2790/GDS2791	424	23	0.004	0.011	0.295	≥0.05	skeletal muscle
<b>3</b>	<b>GDS3181</b>	<b>424</b>	<b>73</b>	<b>0.122</b>	<b>0.011</b>	<b>9.87E-22</b>	<b>&lt;1.00E-04</b>	<b>skeletal muscle</b>
4	GDS3715	357	18	0.000	0.012	0.425	≥0.05	skeletal muscle
5	GDS3781/GDS3962	424	8	-0.031	0.011	0.999	≥0.05	adipose

Refer to the legend of Table S3 for explanation of the column titles. The bold font indicates the significant enrichment analysis with adjusted  $p$ -value  $\leq 0.05$ .

**Table S9.** Significant correlation of gene expression association.

Study1_ID	Study2_ID	Study1_GDS	Study2_GDS	Rho	p-Value
2	3	GDS3980	GDS3874/GDS3875	0.036	5.98E-04
1	8	GDS3665	GDS3681	0.038	4.62E-04
3	12	GDS3874/GDS3875	GDS3880	0.040	1.21E-04
2	12	GDS3980	GDS3880	0.041	1.07E-04
12	13	GDS3880	GDS3884	0.041	8.05E-05
1	3	GDS3665	GDS3874/GDS3875	0.047	1.72E-05
2	7	GDS3980	GDS3883	0.055	2.25E-07
1	11	GDS3665	GDS4337	0.057	5.59E-07
3	4	GDS3874/GDS3875	GDS3963	0.065	6.65E-09
2	10	GDS3980	GDS3882	0.074	7.07E-12

**Table S10.** Significant independence of gene expression association.

Study I ID	Study II ID	Study I Data	Study II Data	Chi-square	p-Value
5	12	GDS3656	GDS3880	12.156	4.89E-04
4	5	GDS3963	GDS3656	13.493	2.39E-04
3	6	GDS3874/GDS3875	GDS3876	15.959	6.47E-05
3	7	GDS3874/GDS3875	GDS3883	17.817	2.43E-05
3	13	GDS3874/GDS3875	GDS3884	18.738	1.50E-05
5	11	GDS3656	GDS4337	18.872	1.40E-05
5	9	GDS3656	GDS3782	21.134	4.28E-06
3	8	GDS3874/GDS3875	GDS3681	22.227	2.42E-06
3	10	GDS3874/GDS3875	GDS3882	22.367	2.25E-06
3	5	GDS3874/GDS3875	GDS3656	37.894	7.47E-10

**Table S11.** Significant correlation of pathway expression association.

Study I ID	Study II ID	Study I Data	Study II Data	Rho	p-Value
1	13	GDS3665	GDS3884	0.032	6.22E-04
6	12	GDS3876	GDS3880	0.035	1.67E-04
1	11	GDS3665	GDS4337	0.036	1.57E-04
9	12	GDS3782	GDS3880	0.037	7.64E-05
3	6	GDS3874/GDS3875	GDS3876	0.040	2.29E-05
7	11	GDS3883	GDS4337	0.040	2.17E-05
11	12	GDS4337	GDS3880	0.041	1.52E-05
7	13	GDS3883	GDS3884	0.043	7.59E-06
4	6	GDS3963	GDS3876	0.045	2.79E-06
4	7	GDS3963	GDS3883	0.056	6.92E-09
3	9	GDS3874/GDS3875	GDS3782	0.056	5.71E-09
7	9	GDS3883	GDS3782	0.056	5.40E-09
3	11	GDS3874/GDS3875	GDS4337	0.060	4.55E-10
2	6	GDS3980	GDS3876	0.061	2.71E-10
1	8	GDS3665	GDS3681	0.064	4.17E-11
2	11	GDS3980	GDS4337	0.066	1.50E-11

5	13	GDS3656	GDS3884	0.066	1.29E-11
8	9	GDS3681	GDS3782	0.074	3.02E-14
3	10	GDS3874/GDS3875	GDS3882	0.075	1.38E-14
7	8	GDS3883	GDS3681	0.077	4.90E-15
1	7	GDS3665	GDS3883	0.080	3.43E-16
7	12	GDS3883	GDS3880	0.080	1.91E-16
7	10	GDS3883	GDS3882	0.081	6.75E-17
4	10	GDS3963	GDS3882	0.084	5.32E-18
2	8	GDS3980	GDS3681	0.085	4.61E-18
6	10	GDS3876	GDS3882	0.085	2.04E-18
1	4	GDS3665	GDS3963	0.092	3.22E-21
3	7	GDS3874/GDS3875	GDS3883	0.097	3.38E-23
11	13	GDS4337	GDS3884	0.099	5.49E-24
4	12	GDS3963	GDS3880	0.099	5.29E-24
10	12	GDS3882	GDS3880	0.104	2.60E-26
1	12	GDS3665	GDS3880	0.111	1.14E-29
8	13	GDS3681	GDS3884	0.115	8.36E-32
9	11	GDS3782	GDS4337	0.116	1.92E-32
1	2	GDS3665	GDS3980	0.119	4.40E-34
2	4	GDS3980	GDS3963	0.130	2.32E-40
2	7	GDS3980	GDS3883	0.132	1.71E-41
5	8	GDS3656	GDS3681	0.144	1.37E-48
1	3	GDS3665	GDS3874/GDS3875	0.146	4.16E-50
3	12	GDS3874/GDS3875	GDS3880	0.146	2.67E-50
1	10	GDS3665	GDS3882	0.157	3.52E-58
2	12	GDS3980	GDS3880	0.164	2.78E-63
2	3	GDS3980	GDS3874/GDS3875	0.167	9.10E-66
8	11	GDS3681	GDS4337	0.195	4.78E-88
2	10	GDS3980	GDS3882	0.211	9.20E-104
3	4	GDS3874/GDS3875	GDS3963	0.241	5.17E-136

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