

SUPPLEMENTARY DATA

Supplementary Table 1. Study demographics

Race: White (W), Black (B), Unknown (U); Genetic risk: High (H), Medium (M), Low (L), Unknown (U); FDR: first-degree relative; CVD: cardiovascular diseases.

	Healthy Controls	T1D
Sample size	922	928
Age in yr, range (mean \pm SD)	1.1-81.8 (30.7 \pm 19.2)	2.5-90.2 (28 \pm 19.1)
Sex (% Female)	61	52
Race (W/B/U)	742/174/6	771/156/1
FDR (+/-)	382/541	132/796
Junior Onset/Adult onset T1D		692/232
T1D Duration: range (mean \pm SD)		0-67 (12.8 \pm 12.9)
Complication		
All		238
CAD		35
Hypertension		119
Retinopathy		70
Neuropathy		59
Nephropathy		26
without any complication		407
Unknown		184

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Supplementary Table 2. List of gene assays used in Real-Time PCR

Symbol	TaqMan (ABI) cat#
TGFB1	HS99999918_m1
SELL	Hs00174151_m1
CD74	Hs00269961_m1
PSMB3	Hs00600803_m1
S100A8	Hs00374264_g1
S100A9	Hs00610058_m1
MNDA	Hs00159210_m1
IL-12A	Hs00168405_m1
SMAD7	Hs00178696_m1
PSMA4	Hs00160566_m1
GPLY	Hs00246266_m1
Foxp3	Hs00203958_m1
RNF10	Hs00208324_m1
NFKB1	Hs00765730_m1
MFNG	Hs00159117_m1
RNF31	Hs00215938_m1
TM9SF4	Hs00207196_m1
GZMB	Hs00188051_m1
GAPDH	Hs99999905_m1
B2M	Hs99999907_m1
ABL	Hs00245445_m1
TSC22D3	Hs00933671_m1
RPL17	Hs01597859_m1
EEF1B2	Hs00253438_m1

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Supplementary Table 3. Mean values of age, sex and T1D duration in cases and controls before and after multivariate matching

Group		Before Matching		After Matching	
		Controls	Cases	Controls	Cases
T1D	Age (years)	30.43	27.94	27.88	27.94
	928				
	Sex (Female%)	61.50%	52.60%	52.60%	52.60%
Any Comp	Age (years)	17.99	47.15	44.58	47.15
	238				
	Sex (Female%)	53.47%	52.94%	52.94%	52.94%
	T1D Duration	7.06	25.14	24.49	25.14
Neuropathy	Age (years)	17.99	53.3	50.92	53.3
	59				
	Sex (Female%)	53.47%	66.10%	66.10%	66.10%
	T1D Duration	7.06	30.7	30.49	30.7
HTN	Age (years)	17.99	49.35	46.02	49.35
	119				
	Sex (Female%)	53.47%	52.10%	52.10%	52.10%
	T1D Duration	7.06	26.34	25.16	26.34
Retinopathy	Age (years)	17.99	49.5	47.21	49.5
	70				
	Sex (Female%)	53.47%	58.57%	58.57%	58.57%
	T1D Duration	7.06	32.1	31.8	32.1
Nephropathy	Age (years)	17.99	48.3	46.73	48.3
	26				
	Sex (Female%)	53.47%	61.54%	61.54%	61.54%
	T1D Duration	7.06	31.14	30.59	31.14
CAD	Age (years)	17.99	61.39	54.97	61.39
	35				
	Sex (Female%)	53.47%	54.29%	54.29%	54.29%
	T1D Duration	7.06	31.54	29.72	31.54

For T1D group, cases are T1D patients, controls are AbN controls, matching was performed with respect to age, and sex. For Complications, cases are the T1D patients with a particular complication, controls are T1D patients without any complications. Matching was performed with respect to age, sex and T1D duration.

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Supplementary Table 4. Correlations of gene expression levels with T1D duration

Gene	Group	Corr Coeff	95% CI	P. adj value	beta (slope)
S100A9	T1D Female:	0.118	0.028 , 0.206)	0.01	0.00505
S100A9	T1D Male:	0.206	0.113 , 0.295)	1.90E-05	0.00919
S100A8	T1D Female:	0.095	0.005 , 0.184)	0.038	0.00435
S100A8	T1D Male:	0.163	0.069 , 0.254)	0.00071	0.00789
PSMA4	T1D Female:	-0.225	-0.31 , -0.138)	7.70E-07	-0.00746
PSMA4	T1D Male:	-0.153	-0.245 , -0.059)	0.0016	-0.00497
RNF31	T1D Female:	-0.083	-0.172 , 0.008)	0.075	-0.0034
RNF31	T1D Male:	-0.126	-0.218 , -0.032)	0.0088	-0.00559
IL12A	T1D Female:	-0.234	-0.318 , -0.146)	3.40E-07	-0.01016
IL12A	T1D Male:	-0.287	-0.372 , -0.197)	2.10E-09	-0.01331
CD74	T1D Female:	-0.043	-0.135 , 0.05)	0.37	-0.00204
CD74	T1D Male:	-0.024	-0.121 , 0.073)	0.63	-0.00117
FoxP3	T1D Female:	0.047	-0.044 , 0.138)	0.31	0.00309
FoxP3	T1D Male:	-0.133	-0.225 , -0.038)	0.0062	-0.00987
GZMB	T1D Female:	-0.012	-0.103 , 0.079)	0.79	-0.00068
GZMB	T1D Male:	-0.005	-0.1 , 0.09)	0.92	-0.00028
MFNG	T1D Female:	-0.027	-0.117 , 0.063)	0.56	-0.00081
MFNG	T1D Male:	-0.181	-0.271 , -0.088)	0.00017	-0.00589
MNDA	T1D Female:	0.047	-0.044 , 0.137)	0.31	0.00178
MNDA	T1D Male:	0.171	0.076 , 0.263)	0.00045	0.0067
NFKB1	T1D Female:	-0.078	-0.167 , 0.013)	0.092	-0.00176
NFKB1	T1D Male:	-0.086	-0.18 , 0.009)	0.076	-0.00227
RNF10	T1D Female:	-0.02	-0.111 , 0.071)	0.66	-0.00127
RNF10	T1D Male:	-0.001	-0.096 , 0.095)	0.99	-5.00E-05
SELL	T1D Female:	0.058	-0.034 , 0.149)	0.21	0.00201
SELL	T1D Male:	-0.008	-0.103 , 0.088)	0.87	-3.00E-04
SMAD7	T1D Female:	0.055	-0.036 , 0.145)	0.23	0.0018

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SMAD7	T1D Male:	-0.03	-0.125 , 0.065)	0.53	-0.00097
TGFB1	T1D Female:	0.012	-0.08 , 0.104)	0.8	0.00044
TGFB1	T1D Male:	0.05	-0.046 , 0.146)	0.3	0.00193
TM9SF4	T1D Female:	-0.024	-0.114 , 0.067)	0.6	-0.00117
TM9SF4	T1D Male:	0.02	-0.075 , 0.114)	0.68	9.00E-04
GNLY	T1D Female:	0.079	-0.011 , 0.168)	0.084	0.00461
GNLY	T1D Male:	0.001	-0.094 , 0.096)	0.98	1.00E-04
PSMB3	T1D Female:	0.055	-0.036 , 0.144)	0.23	0.00166
PSMB3	T1D Male:	0.077	-0.017 , 0.17)	0.11	0.00266