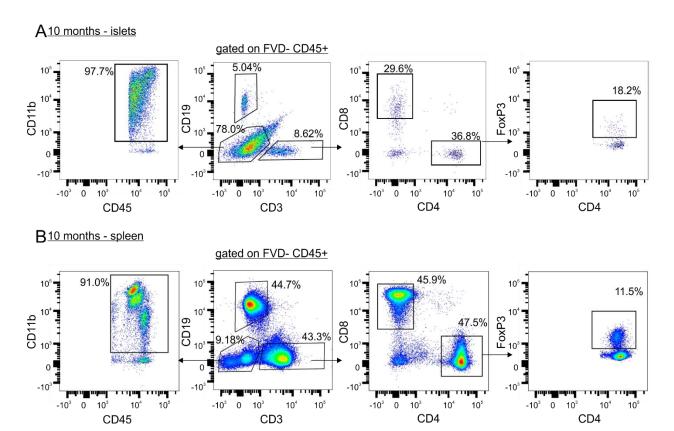
Supplemental Table 1. Antibodies for flow cytometry

Clone	Catalogue	Dilution		
Mouse islets				
30-F11	48-0451-82	1:100		
eBio1D3	17-0193-82	1:100		
53-7.3	11-0051-82	1:150		
M1/70	12-0112-82	1:100		
17A2	564009	1:100		
GK1.5	100453	1:100		
145-2C11	25-0031-82	1:25		
53-6.7	100761	1:100		
FJK-16s	11-5773-82	1:25		
H57-597	109212	1:100		
GL3	118108	1:100		
PK136	108714	1:100		
Human islets				
HI30	48-0459-42	1:15		
UCHT1	17-0038-42	1:20		
	30-F11 eBio1D3 53-7.3 M1/70 17A2 GK1.5 145-2C11 53-6.7 FJK-16s H57-597 GL3 PK136 H	Mouse islets 30-F11 48-0451-82 eBio1D3 17-0193-82 53-7.3 11-0051-82 M1/70 12-0112-82 17A2 564009 GK1.5 100453 145-2C11 25-0031-82 53-6.7 100761 FJK-16s 11-5773-82 H57-597 109212 GL3 118108 PK136 108714 Human islets HI30 48-0459-42		

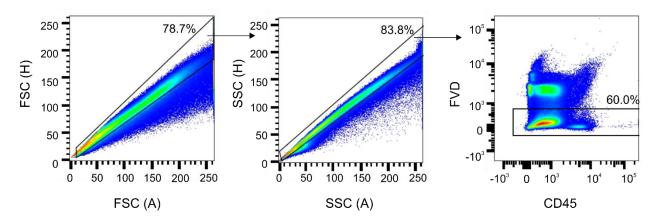
Supplemental Table 2. Human islet donor characteristics.

Islet preparation	1	2	3		
Donor demographics					
Unique identifier	R310	R314	R317		
Age (years)	25	31	54		
Sex (M/F)	М	F	М		
BMI (kg/m²)	26.4	30.3	26.4		
HbA _{1c}	5.4	5.0	5.1		
Cause of death	NDD-neurological	NDD-neurological	NDD-neurological		
Diabetes? (Y/N)	N	N	N		
Pancreas					
Origin/source	Alberta Diabetes Institute Islet Core	Alberta Diabetes Institute Islet Core	Alberta Diabetes Institute Islet Core		
Cold ischaemia time (h)	11.25	14.75	21		
Islet handling and use					
Origin/source	Alberta Diabetes Institute Islet Core	Alberta Diabetes Institute Islet Core	Alberta Diabetes Institute Islet Core		
Isolation centre	Alberta Diabetes Institute Islet Core	Alberta Diabetes Institute Islet Core	Alberta Diabetes Institute Islet Core		
Estimated purity (%)	90	80	90		
Total culture time (h)	~96	~48	~96		
Functional measurement (Stimulation index mean 10 mM to 1 mM)	14.07	3.62	11.9		
Experimental islet use (including in which experiment each islet preparation was used)	Islet dispersion and flow cytometry	Islet dispersion and flow cytometry	Islet dispersion and flow cytometry		

This table was prepared following recommendations as per: Hart N.J., Powers A.C. 2019. Use of human islets to understand islet biology and diabetes: progress, challenges and suggestions. Diabetologia 62:212–222. Open source data on each islet preparation can be obtained at www.isletcore.ca.



Supplemental Figure 1. T cell subsets in 10 month-old mice. Islets (A) and spleens (B) were isolated from 10-month old mice for analysis of islet T cell subsets by flow cytometry. Cells were gated on FSC, SSC, viability (FVD-) and CD45+, and subsequently CD19, CD3, CD11b, CD8, CD4, and FoxP3; data are representative of 2 samples, (for islet samples, islets from 10 mice pooled per sample).



Supplemental Figure 2. Representative data from human islet preparations, dispersed and gated on FSC, SSC and viability (FVD-). FACS plots are representative of 3 independent biological samples. Numbers in FACS plots represent the percent of cells in each selection as a function of the parent population.