

**Signaling between pancreatic β -cells and macrophages via S100 calcium-binding protein A8
exacerbates β -cell apoptosis and islet inflammation**

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Supporting information

Supplemental Tables

Supplemental Table S1. Body weight and blood glucose levels of the db/db mice.

12 weeks of age

	Body weight (g)	Blood glucose (mM)
db/+	29.6 ± 0.51	8.30 ± 0.46
db/db	48.3 ± 0.25	27.96 ± 3.62

6 weeks of age

	Body weight (g)	Blood glucose (mM)
db/+	25.95 ± 0.55	7.42 ± 0.58
db/db	32.00 ± 0.60	13.00 ± 4.11

Data are shown as mean ±SE

Supplemental Table S2. TaqMan probes and primer for the real-time PCR.

Gene Symbol	TaqMan Assay ID (mouse)	Gene Symbol	Primers
Actb	Mm02619580_g1	Actb (mouse)	Forward: GGCTGTATTCCCCTCCATCG Reverse: CCAGTTGGTAACAATGCCATGT
Rn18s	Mm03928990_g1	S100a8 (mouse)	Forward: AAATCACCATGCCCTCTACAAG Reverse: CCCACTTTTATCACCATCGCAA
S100a8	Mm00496696_g1	S100a9 (mouse)	Forward: ATACTCTAGGAAGGAAGGACACC Reverse: TCCATGATGTCATTTATGAGGGC
S100a9	Mm00656925_m1	Tnf-alpha (mouse)	Forward: CCCTCACACTCAGATCATCTTCT Reverse: GCTACGACGTGGGCTACAG
Tnf-alpha	Mm00443258_m1	Ccl2 (mouse)	Forward: TTAAAAACCTGGATCGGAACCAA Reverse: GCATTAGCTTCAGATTTACGGGT
Il1b	Mm00434228_m1	Il1b (mouse)	Forward: GGGCCTCAAAGGAAAGAATC Reverse: TTGCTTGGGATCCACACTCT
Il6	Mm00446190_m1	Il6 (mouse)	Forward: TAGTCCTTCTACCCCAATTTCC Reverse: TTGGTCCTTAGCCACTCCTTC
Ccl2	Mm00441242_m1	Il12 (mouse)	Forward: TGGTTTGCCATCGTTTTGCTG Reverse: ACAGGTGAGGTTCACTGTTTCT
F4/80	Mm00802529_m1	Il22 (mouse)	Forward: ATGAGTTTTTCCCTTATGGGGAC Reverse: GCTGGAAGTTGGACACCTCAA
Cd11b	Mm00434455_m1	Il23 (mouse)	Forward: ATGCTGGATTGCAGAGCAGTA Reverse: ACGGGGCACATTATTTTTAGTCT
Selp (p-selectin)	Mm00441295_m1	Il24 (mouse)	Forward: CTGCCTGAGCCTAATCCTTCT Reverse: CTTGGCAAGACCCAAATCGGA
		Ap2 (mouse)	Forward: GCGTGGAATTCGATGAAATCA Reverse: CCCGCCATCTAGGGTTATGA
		Cd11b (mouse)	Forward: ATGGACGCTGATGGCAATACC Reverse: TCCCCATTACGTCTCCA
		F4/80 (mouse)	Forward: CTTTGGCTATGGGCTTCCAGTC Reverse: GCAAGGAGGACAGAGTTTATCGTG
		GAPDH (human)	Forward: AGGGCTGCTTTTAACTCTGGT Reverse: CCCCACTTGATTTTGGAGGGA
		S100A8 (human)	Forward: CTCAGTATATCAGGAAAAAGGGTGCAGAC Reverse: CACGCCCATCTTTATCACCAGAATGAG

Supplemental Table S3. Characteristics of islet donors (Fig. 10A, 10B, 10C, and 10D).

Donor UNOS ID	Gender	Ethnicity/Race	Age (years)	BMI	Diabetic donor status	Islet purity (%)	Islet viability (%)
ADH5380	Male	Hispanic/Latino	59	28.3	No	75	90
ADIE157	Male	White	56	40.1	No	95	95
ACAF123A	Female	White	36	42.7	No	85	99
ADK2286	Female	Black or African American	49	25.2	No	95	90
ABLM454	Male	White	40	36.5	No	93	80
ADJQ078	Male	White	45	24.6	No	90	90
AELM182	Male	White	64	34.5	No	80	97
AELO080	Female	White	53	27.6	No	80	95
AFAE017A	Male	White	32	26.2	No	85	98