Supplementary Information

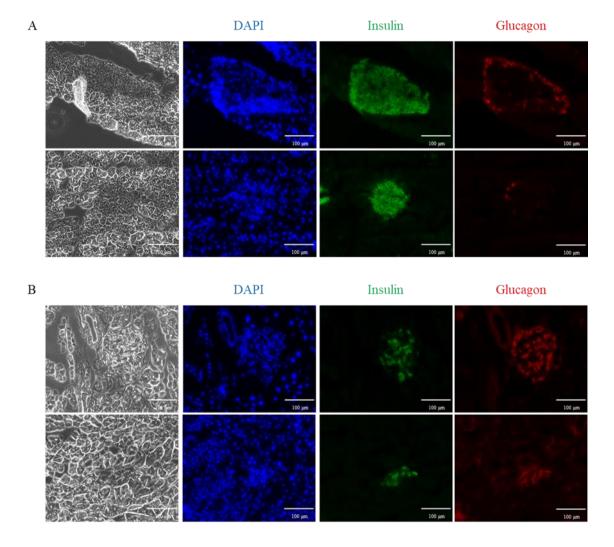
Mitomycin C treatment improves pancreatic islet graft longevity in intraportal islet transplantation by suppressing proinflammatory response

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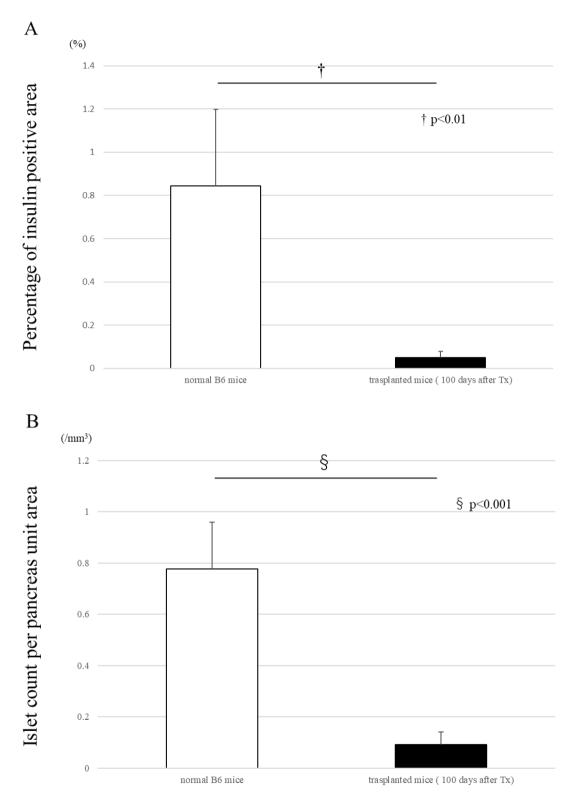
Target	Forward	Reverse
IL-1β	5'-GGATGAGGACATGAGCACCT-3'	5'-AGCTCATATGGGTCCGACAG-3'
MCP-1	5'-TCCCAATGAGTAGGCTGGAG-3'	5'-TCTGGACCCATTCCTTCTTG-3'
IL-6	5' -GGCCTTCCCTACTTCACAAG-3'	5' -ATTTCCACGATTTCCCAGAG-3'
TNF-α	5'-AGGGTCTGGGCCATAGAACT-3'	5'-CCACCACGCTCTTCTGTCTAC-3'
INF-γ	5'-ACTGGCAAAAGGATGGTGAC-3'	5'-TGAGCTCATTGAATGCTTGG-3'
IL-2	5'-TGAGCAGGATGGAGAATTACAGG-3'	5'-GTCCAAGTTCATCTTCTAGGCAC-3'
IL-12	5'-TGGTTTGCCATCGTTTTGCTG-3'	5'-ACAGGTGAGGTTCACTGTTTCT-3'
HPRT	5'-CACAGGACTAGAACACCTGC-3'	5'-GCTGGTGAAAAGGACCTCT-3'

Supplementary Table S1. Primers used for quantitative reverse transcription polymerase chain reaction.

Abbreviation: IL-1 β , Interleukin-1 β ; MCP-1, Monocyte Chemotactic Protein-1; IL-6, Interleukin-6; TNF- α , Tumor Necrosis Factor- α ; INF- γ , Interferon gamma; IL-2, Interleukin-2; IL-12, Interleukin-12; HPRT, Hypoxanthine phosphoribosyltransferase



Supplementary Figure S1. Immunofluorescence evaluation of excised pancreatic tissue. Pancreatic tissue from (A) normal healthy mice and (B) transplant recipients were stained with an anti-insulin (1:50 dilution, SC-8033; Santa Cruz Biotechnology, Dallas, TX, USA) and anti-glucagon (1:800 dilution, ab10988; Abcam, Cambridge, UK) at 100 days after the transplantation procedure. The samples were then stained with secondary antibody Alexa Fluor 488 donkey anti-mouse (1:500 dilution, 715-545-150; Jackson ImmunoResearch, West Grove, PA, USA) and Alexa Fluor 594 goat anti-mouse (1:1000 dilution, A-11032, ThermoFisher Scientific, Waltham, MA, USA). Nuclei were counterstained with 4,6-diamidine 2-phenylindoledihydrochloride (DAPI).



Supplementary Figure S2. (A) The percentage of the total tissue area that stains positive with anti-insulin (n = 4, $^{\dagger}p$ < 0.01), and (B) the islet counts per unit area in pancreatic tissue (n = 4, $^{\$}p$ < 0.001). The total area and the area staining positive with anti-insulin

were determined using ImageJ software (US National Institutes of Health, Bethesda, MD, USA).