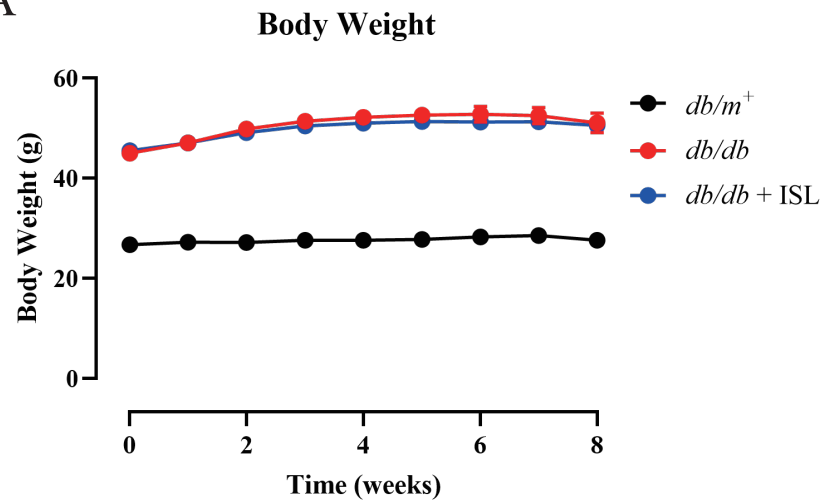
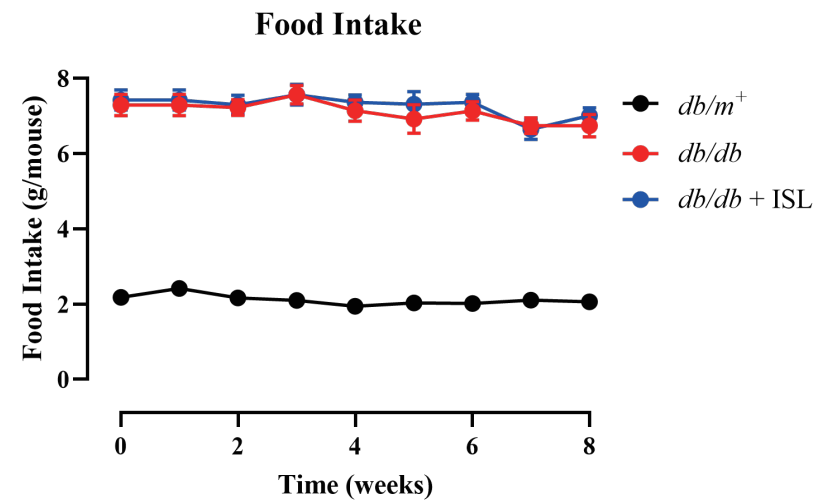


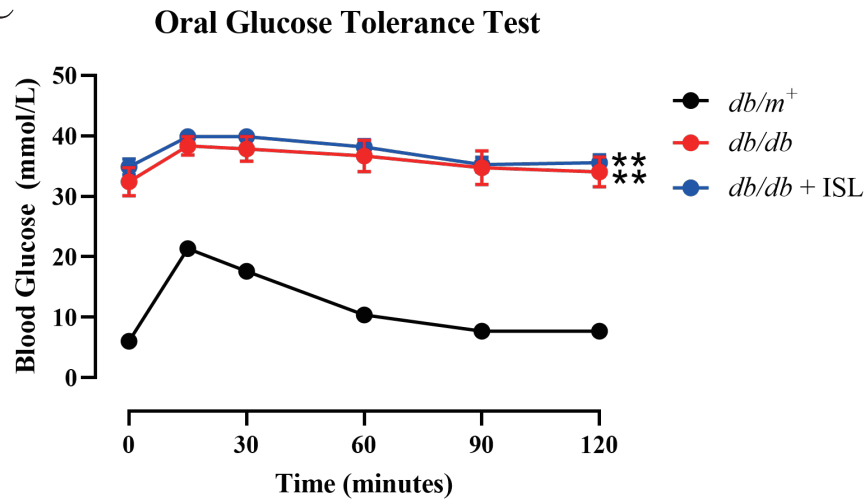
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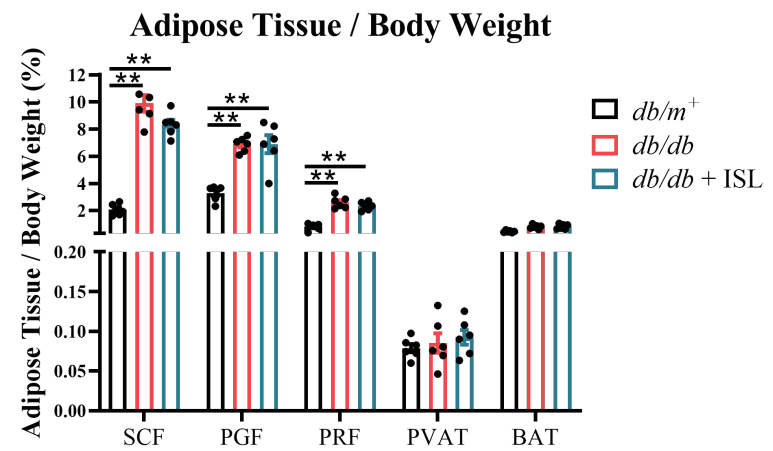
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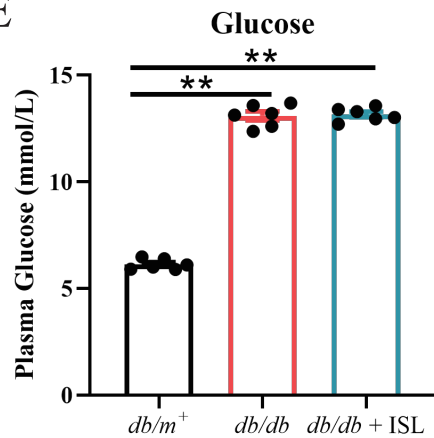
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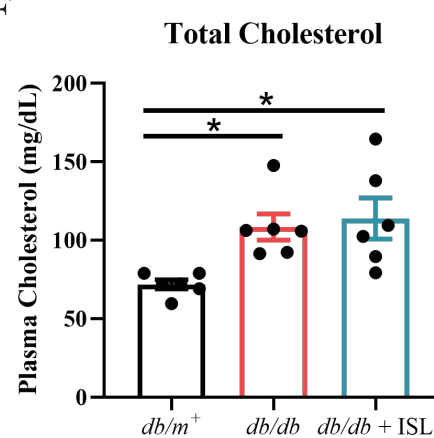
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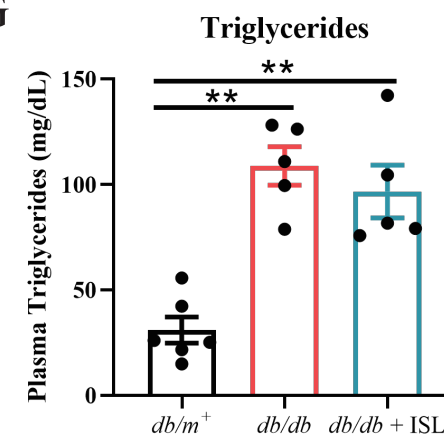
E



F



G



Supplement Figure Legend

Supplement Figure S1. Effects of oral ISL treatment on the basic parameters of *db/m⁺* and *db/db* mice.

(A) Body weight and (B) food intake of *db/m⁺* and *db/db* mice treated and/or non-treated with ISL (20 mg/kg/day) via oral gavage for 8 weeks. (C) The Oral glucose tolerance test was performed at the end of ISL treatment. (D) Adipose tissue weight of *db/m⁺* and *db/db* mice treated and/or non-treated with ISL (20 mg/kg/day). (E) Plasma glucose levels, (F) plasma total cholesterol levels and (G) plasma triglycerides levels of *db/m⁺* and *db/db* mice treated and/or non-treated with ISL (20 mg/kg/day). Data represent means \pm SEM of 6 mice. *p* values were determined using Two-way ANOVA for (C) and One-way ANOVA for (D, E, F and G), ***p* < 0.01 *db/db*+ISL or *db/db* vs *db/m⁺* (C). **p* < 0.05, ***p* < 0.01 (D, E, F and G). BAT, brown adipose tissue; PGF, perigenital fat; Phe, phenylephrine; PRF, perirenal fat; PVAT, perivascular adipose tissue; SCF, subcutaneous fat.

Primer Sequence used in qPCR analysis

Primers were purchased from Tech Dragon Limited. Primer sequences were shown below:

Target	Primer Sequence	
β -actin	Forward Primer	AAGGCCAACCGTGAAAAGAT
	Reverse Primer	CCTGTGGTACGACCAGAGGCATACA
HO-1	Forward Primer	GATAGAGCGCAACAAGCAGAA
	Reverse Primer	CAGTGAGGCCCATACCAGAAG

ICAM-1	Forward Primer	GTGATGCTCAGGTATCCATCCA
	Reverse Primer	CACAGTTCTCAAAGCACAGCG
IL-6	Forward Primer	TGGGGCTCTTCAAAAGCTCC
	Reverse Primer	AGGAACTATCACCGGATCTTCAA
IL-10	Forward Primer	ATAACTGCACCCACTTCCCA
	Reverse Primer	GGGCATCACTTCTACCAGGT
MCP-1	Forward Primer	AAAACACGGGACGAGAAACCC
	Reverse Primer	ACGGGAACCTTTATTAACCCCT
NOX2	Forward Primer	TGGCTCCACTGGGAATTGC
	Reverse Primer	CAAACCCGGCATCATGGGA
Nrf2	Forward Primer	TAGATGACCATGAGTCGCTTGC
	Reverse Primer	GCCAAACTTGCTCCATGTCC
SOD1	Forward Primer	AACCAGTTGTGTTGTCAGGAC
	Reverse Primer	CCACCATGTTTCTTAGAGTGAGG
TNF- α	Forward Primer	TAGCCCACGTCGTAGCAAAC
	Reverse Primer	GCAGCCTTGTCCTTGAAGA
VCAM-1	Forward Primer	AGTTGGGGATTCTGGTTGTTCT
	Reverse Primer	CCCCTCATTCTTACCACCC
