

Supplementary Materials: *Fto*-Deficiency Affects the Gene and MicroRNA Expression Involved in Brown Adipogenesis and Browning of White Adipose Tissue in Mice

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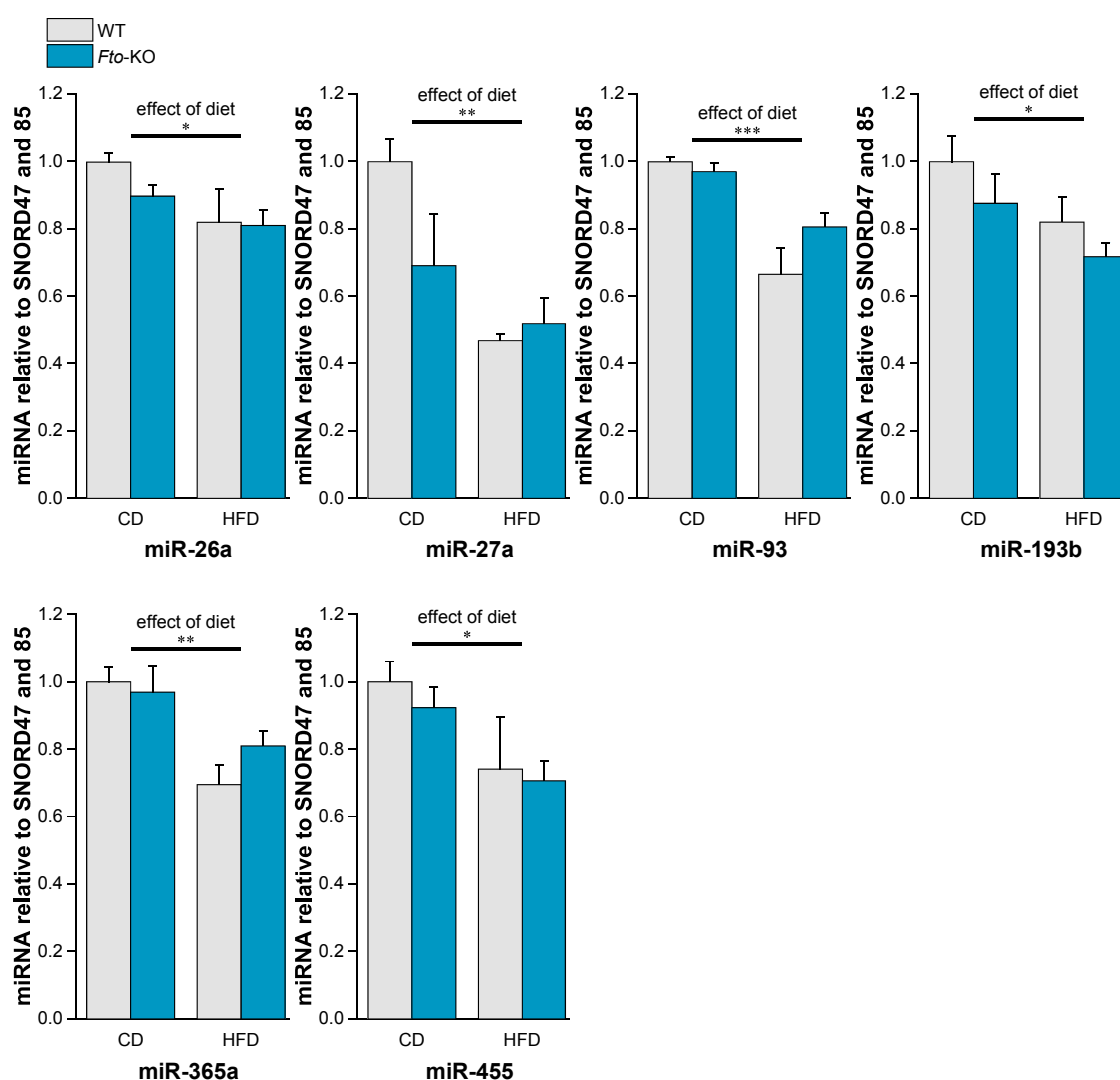


Figure S1. Relative expression of miRNAs related to brown adipose tissue (BAT) adipogenesis are downregulated due to the high-fat diet in BAT of wild-type (WT) and *Fto*-knockout (*Fto*-KO) mice. The amount of miRNA was normalized using SNORD47 and 85 as internal controls. CD, control diet; HFD, high-fat diet. Results are shown as mean $\pm$ SEM ($n = 4$ per group). Two-way ANOVA, * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$.

Table S1. Sequences and annealing temperatures (Ann °C) of primers used in the RT-qPCR studies.

Gene	Forward Primer 5'–3'	Reverse Primer 5'–3'	Ann °C
<i>Actb</i>	TGGATCGGTGGCTCCATCCTGG	CGCAGCTCAGTAACAGTCCGCCTA	61
<i>Bmp4</i>	AGCCGAGCCAACACTGTGAG	GAGCTCTGCCGAGGAGATCAC	62
<i>Cebpa</i>	ACGGCGGGAACGCAACAACA	GCTTGCGCAGGCGGTCATTG	62
<i>Cebpb</i>	CGCAACCTGGAGACGCAGCA	GGCTCGGGCAGCTGCTTGAA	61
<i>Fto</i>	GCGGAGGAACGAGAGCGGGA	GCTGCCGGCCTCTCGGAAAA	61
<i>Gapdh</i>	CCAATGTGTCCGTCGTGGATCT	GTTGAAGTCGCAGGAGACAACC	61
<i>Glut4</i>	GAGCTGGTGTGGTCAATACG	GTTCCAGCAGCAGCAGAG	60
<i>Irx3</i>	CACCCCGCCTTCTACCCCTA	TGGGTGAGGGTCATCTTGGTG	60
<i>Pparg</i>	ACTCCCTCATGGCCATTGAG	TGAGACATCCCCACAGCAAG	61
<i>Rxra</i>	CACCTGCCGAGACAACAAG	GTTCTCATTCCGGTCCTTGC	60
<i>Ucp1</i>	TGCCTCACTCAGGATTGG	GCTTGCATTCTGACCTTCAC	63

Table S2. Quanta BioSciences miRNA assay information and annealing temperatures (Ann °C) used in the miRNA RT-qPCR studies.

miRNA	Quanta BioSciences miRNA Assay (Ref#)	Ann °C
miR-26a	hsa-miR-26a-5p (68676137)	60
mir-27a	hsa-miR-27a * (68676138)	65
mir-93	HSMIR-0093 (69002641)	60
mir-106b	HSMIR-0106B (69002643)	60
mir-130b	MMIR-0130B * (69002636)	60
mir-133a	MMIR-0133A * (69002631)	60
mir-138	HSMIR-0138-5P (69002635)	60
mir-155	MMIR-0155 (69002637)	60
mir-193b	HSMIR-0193B-5P (69002642)	60
mir-196a	HSMIR-0196A-5P (69002638)	60
mir-200a	HSMIR-0200A-5P (69002639)	60
mir-365a	HSMIR-0365A-5P (69002640)	60
mir-378a	HSMIR-0378 * (69002632)	60
mir-448	MMIR-0448-5P (69002645)	60
mir-455	HSMIR-0455-5P (69002644)	60
SNORD47	MM-SNORD47 (69002634)	60
SNORD85	MM-SNORD85 (69002633)	60