

SUPPLEMENTARY DATA for

**Jerusalem artichoke inulin supplementation ameliorates hepatic lipid metabolism in
type 2 diabetes mellitus mice by modulating the gut microbiota and fecal metabolome**

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Table S1 The ingredients and energy densities of the normal and high-fat diets.

Ingredient	normal diet (D12450B)		high-fat diet (D12492)	
	gm	<i>kcal</i>	gm	<i>kcal</i>
Casein, 80 Mesh	200	800	200	800
L-Cystine	3	12	3	12
Corn Starch	315	1260	0	0
Maltodextrin 10	35	140	125	500
Sucrose	350	1400	68.8	272
Cellulose, BW200	50	0	50	0
Soybean Oil	25	225	25	225
Lard	20	180	245	2205
Mineral Mix S10026	10	0	10	0
DiCalcium Phosphate	13	0	13	0
Calcium Carbonate	5.5	0	5.5	0
Potassium Citrate, 1 H ₂ O	16.5	0	16.5	0
Vitamin Mix V1001	10	40	10	40
Choline Bitartrate	2	0	2	0
FD&C Yellow Dye #5	0.05	0	0	0
FD&C Blue Dye #1	0	0	0.05	0

Note: FD&C: A major subsidiary dye in U.S. certified Allura Red AC dye.

Table S2 Primers sequences used for real-time quantitative PCR.

Gene		Oligonucleotide sequence (5'-3')
<i>β-actin</i>	Forward	GTGCTATGTTGCTCTAGACTTCG
	Reverse	ATGCCACAGGATTCCATACC
<i>Fas</i>	Forward	GCTCAGAAGGATTATATCAAGG
	Reverse	AGCACCAGTTCACAGATG
<i>Gyk</i>	Forward	CCTGACAACCGTAGCATAT
	Reverse	CGAAGTAGCAGCCATAAGA
<i>Scd1</i>	Forward	CCGTGGCTTCTTCTTCTC
	Reverse	AGGTGTGGTGGTAGTTGT
<i>Pparγ</i>	Forward	CCGAAGAACCATCCGATT
	Reverse	ACACCATACTTGAGCAGAG

Fas, fatty acid synthase; *Gyk*, glycerol kinase; *Scd1*, stearyl-CoA desaturase 1; *Ppar γ* , peroxisome proliferator-activated receptor gamma.