

1 **Regulating the dysbiosis of glucolipid metabolism and gut microbiota in**  
2 **hyperglycemic mice by green and black teas**

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Table S1 Fluorescent quantitative PCR primer information

mRNA	Primer sequence
SREBF1	5' : AGACAAACTGCCCATCCACC
	3' : CAGGTCCTTCAGTGATTTGCTTT
PPAR $\alpha$	5' : TTCCCTGTTTGTGGCTGCTAT
	3' : CTTTGGGAAGAGGAAGGTGTCA
Txnip	5' : CTACAGCAGGTGAGAACGAGATG
	3' : TCTTCTCCTTTTTGGCAGACACT
FoxO1	5' : TCACCCAGTCCAAACTACTCAAA
	3' : CTCCGTAACCTTGATTTGCTGTCC
PI3K	5' : AACCGAAACAAAGCGGAGAAC
	3' : AGGGAGGTGTGTTGATAATGTAGC
AKT	5' : CGTAGCCATTGTGAAGGAGGG
	3' : GGCAGCGGATGATAAAGGTGTT

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Table S2. The nutritional contents of two different feeds

Matching	High fat and sugar feed (Total energy, 5127.6 Kcal/kg)		Shoobree common standard feed (Total energy, 3656 Kcal/kg)	
	Main index	Content	Main index	Content
Basic feed (38%)	Moisture	4%	Moisture	≤10%
Lard (28%)	Crude protein	23.25%	Crude protein	≥20%
Sucrose (5.6%)	Crude fat	34.55%	Crude fat	≥4%
Whole milk powder (10.8%)	Crude fiber	3.02%	Crude fiber	≤5%
Casein (11.5%)	Crude ash	4.43%	Crude ash	≤8%
Microcrystalline cellulose (1.9%)	Calcium	1.08%	Calcium	1.0-1.8%
Laboratory premix (2%)	Total phosphorus	0.71%	Total phosphorus	0.6-1.2%
Calcium hydrogen phosphate (1.8%)			Lysine	≥1.32%
stone powder (0.4%)	□	□	Methionine+cystine	≥0.78%