



Fig. S1. Functional prediction analysis of gut microbiota in rats treated with *Sparassis latifolia* polysaccharides. The functional analysis based on KEGG database (24) at: a) level 2 and b) level 3; c) relative abundance of functional categories in gut microbiota among the five groups as predicted by FAPROTAX (25). NC=normal control group, HFC=high-fat and high-cholesterol diet group, LD=group receiving a low dose of polysaccharides, MD=group receiving a medium dose of polysaccharides, HD=group receiving a high dose of polysaccharides

[Back to article](#)**Table S1.** Composition of basic diet for rats

Ingredient	w/%
Flour	15.2
Corn	45
Soybean meal	20
Bran	9
Fish meal	3
Yeast	2
Stone powder	1.5
Dicalcium phosphate	1.3
Salt	0.5
Cooking oil	2
	w/(g/100 kg)
Trace elements	20
Vitamins	10
Cod liver oil	50

[Back to article](#)**Table S2.** Primer pairs used for quantitative real-time polymerase chain reaction (qRT-PCR)

Target gene	Primer sequence (5'-3')	Size/bp	GenBank (<i>15</i>) number
β-actin	F: TGCTATGTTGCCCTAGACTTCG	240	NM_031144
	R: GTTGGCATAGAGGCTTTACGG		
HMGR	F: TGCGTGCCCTGGTCCTA	120	NM_013134.2
	R: TTGGTTACTGGGTTTGG		
NPC1L1	F: CTCACGGCCAACCAGACTCT	291	NM_001002025.1
	R: TTCCTTCAAGAAAGCCTCCTCC		
ACAT2	F: ACCCGTCGTCATCATCTCAG	150	NM_001006995.1
	R: TGACCTCGGACCTCTTCTG		
MTP	F: GTCACGATAACGGCTGTCAATG	301	NM_001107727.1
	R: GCTGAGCCTGGTAGGTGACTTT		
ABCG5	F: GCAGGGACCAGTTCCAAGAC	156	NM_053754.2
	R: TCAGGACTGCCTCTACCTTCTTG		
ABCG8	F: TGGCTACCCTTGCTCTCGCTA	129	NM_130414.2
	R: AGGAACAAGGCTGCAAGTAATCG		
ASBT	F: GTTGCCCTGGAAACTGGAATGC	259	NM_017222.2
	R: GAAATCCCTTGTGTCTCCTGG		
IBABP	F: CAAGTTCACCATTGGCAAAGAA	183	NM_017098.1
	R: ACACGCTCGTAGGTACATCC		