

Supplementary Materials

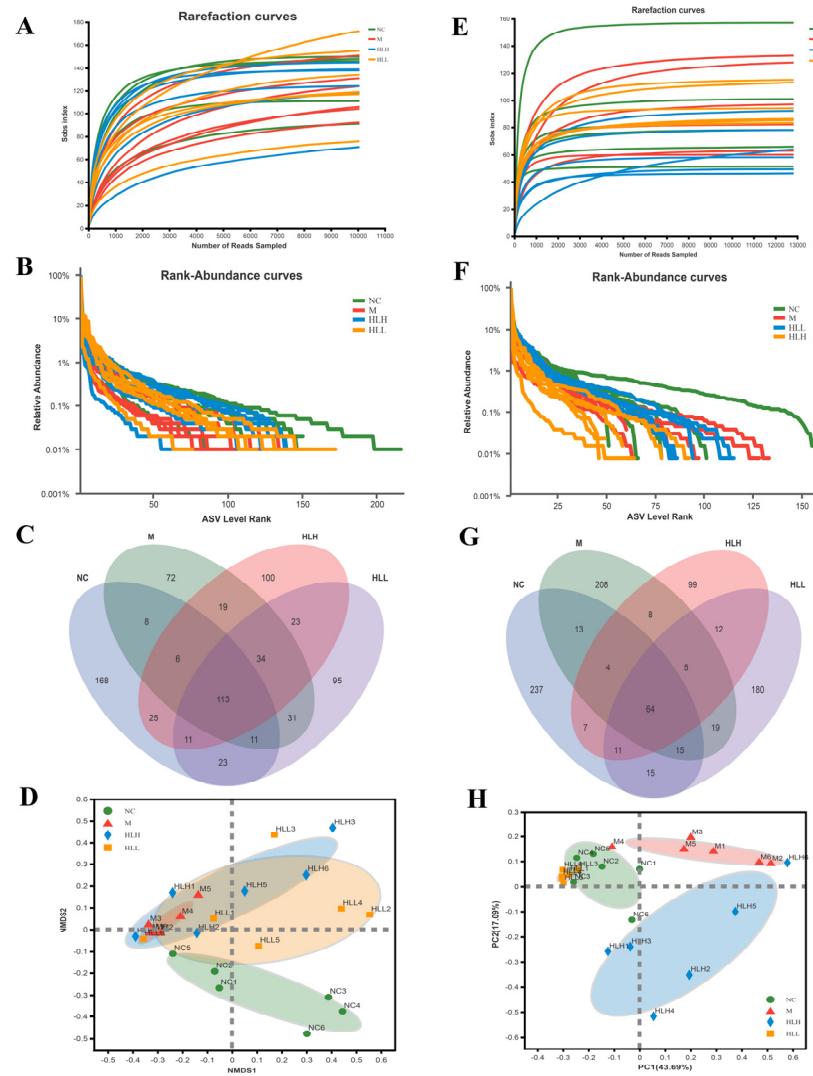


Figure S1. Bacterial and fungi community distribution. (A) Rarefaction curves based on Sobs index. (B) The grading curves, (C) Venn diagram analysis, (D) NMDS analysis based on Bray-Curtis algorithm of bacterial composition. (E) Rarefaction curves based on Sobs index. (F) The grading curves. (G) Venn diagram analysis. (H) PCA analysis of fungi composition.

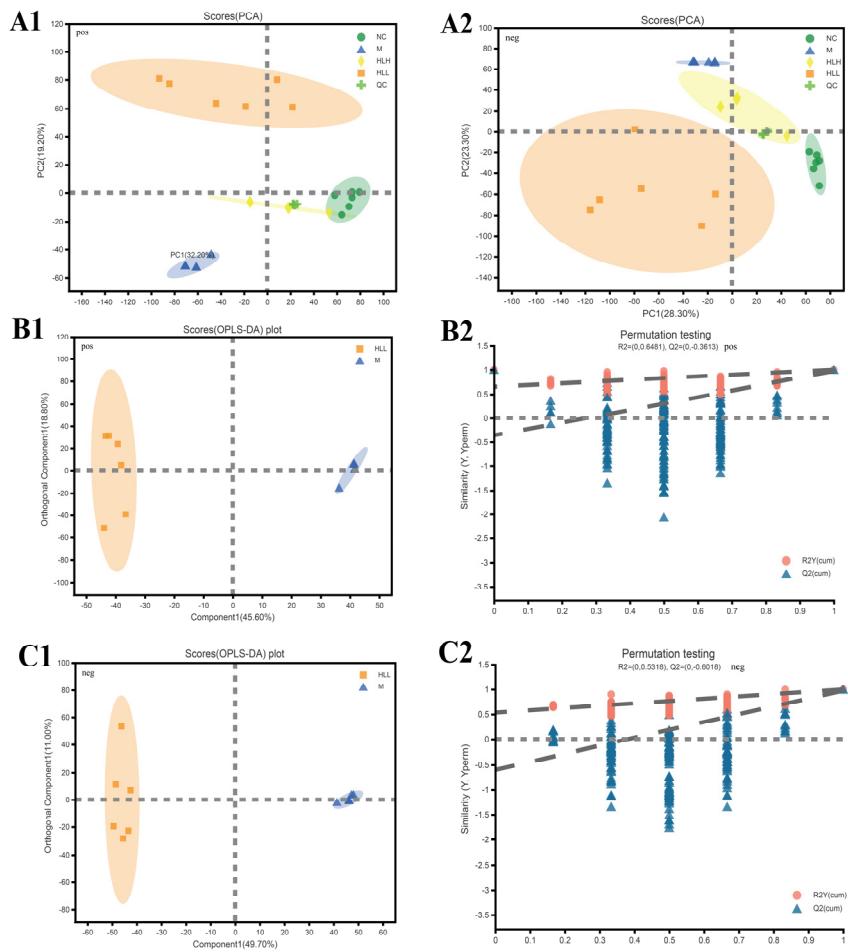


Figure S2. The effects of 10^2 spores/mL *E. amstelodami* H-1 (HLL) intervention on gut metabolism in colitis mice. PCA analysis of metabolome profiles (A1) positive and (A2) negative ion mode among the four groups of samples. OPLS-DA plot of metabolome profiles (B1, pos; C1, neg) and permutation testing (B2, pos; C2, neg) in HLL vs M (model).

Table S1. The standard scoring system of disease activity index (DAI).

Score	Body weight loss	Feces status	Bloody stools
0	no loss	normal	no blood (no color within 2 min)
1	0~10%	loose stool (not attached to the anus)	presence (Within 1~2 min, fuchsia)
2	10%~15%	loose stool (attach to the anus)	presence (Within 1 min, fuchsia)
3	15%~20%	diarrhea (liquid)	presence (Within 1 min, fuchsia)
4	>20%	severe diarrhea	gross blood (Instantly purplish blue)

Table S2. Sequences of Mouse Primers used for RT-PCR Analysis.

Primers	F	R
IL-1 β	GCAACTGTTCCCTGAACCTCAACT	ATCTTTGGGGTCCGTCAACT
IL-6	TAGCCTTCCTACCCCAATTCC	TTGGTCCTTAGCCACTCCTTC
IL-10	CTTACTGACTGGCATGAGGATCA	GCAGCTCTAGGAGCATGTGG
TNF- α	CCTGTAGCCCACGTCGTAG	GGGAGTAGACAAGGTACAACCC
TLR4	GCCTTCAGGAAATTAAAGCTCC	GATCAACCGATGGACGTGTAAA
p65	GCTTGCAAACCTGGGAATA	TCCGCCTTCTGCTTGTAGAT
Nrf2	TAGATGACCATGAGTCGCTTGC	GCCAAACTTGCTCCATGTCC
COX-2	TTCAACACACTCTATCACTGGC	AGAAGCGTTGCGGTACTCAT
iNOS	GGAGTGACGGCAAACATGACT	TCGATGCACAACGGTGAAC
ASC	CATCTGTCTTGGCTGGTGGTCT	CGGACACGGACAGGATTGACA
Caspase-1	AATACAACCCTCGTACACGTC	AGCTCCAACCCTCGGAGAAA
NLRP3	TGTGAGAACGAGTTCTACTCT	TGTAGCGACTGTTGAGGTCCA
FXR	CTGCTTGTGATGCCACTTACA	TAGCACACGCTCTCTCAGGT
PXR	TAGGGACCTGCCTATTGAGGA	CCGTTCCGTGTCGAACATC
TGR5	CCTGGAACTCTGTTATCGCTCA	GCACTCGTAGACACCTTGGG
GADPH	GCTCTGGCTCCTAGCACCAT	GCCACCGATCCACACAGAGT