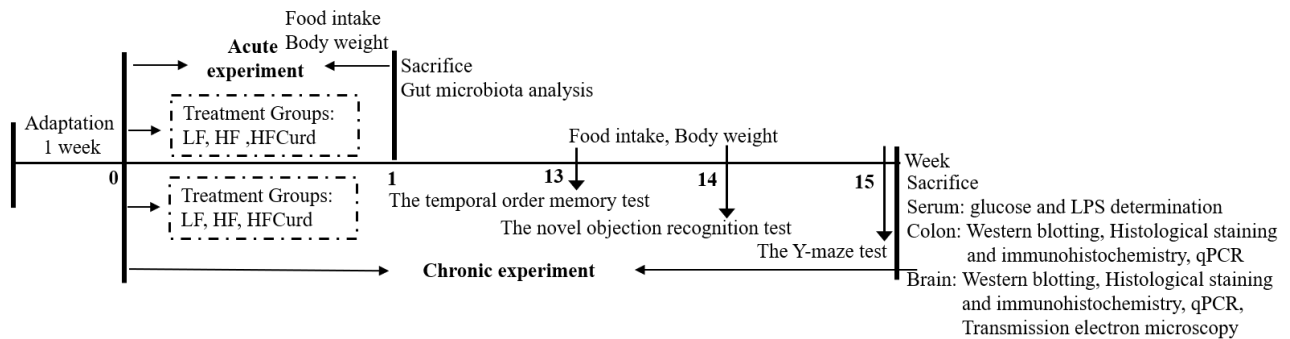
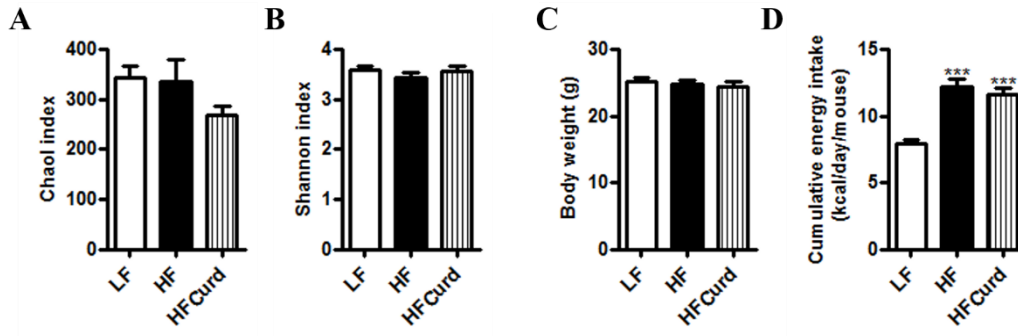


Supplementary Material

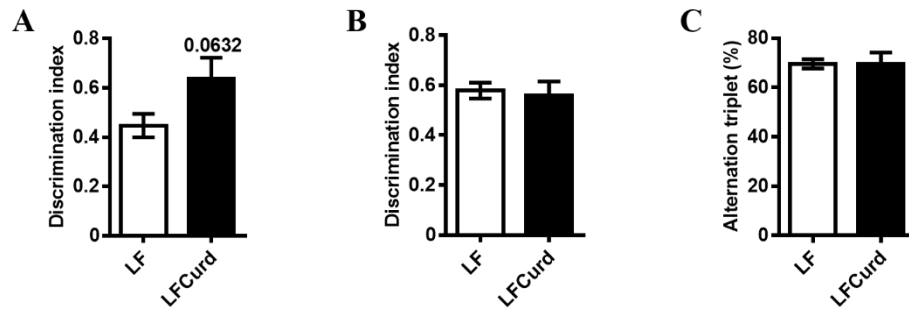
Supplementary Figures



Supplementary Figure 1. Schematic figure of the experimental timeline.



Supplementary Figure 2. Effect of curdlan on species richness and diversity, energy intake and body weight in mice fed a HF diet for seven days. (A) richness (Chao1 index) and (B) diversity (Shannon index) of gut microbial communities based on OUT, n=5; (C) body weight, (D) energy intake, n=10. Values are mean \pm standard error of means. ***p<0.001 vs. LF.



Supplementary Figure 3. Effects of chronic curdlan supplementation on cognitive function in mice fed a LF diet. (A) discrimination index in the temporal order memory test, (B) discrimination index in the novel object recognition test, (C) proportion of correct alternations in the Y-maze test. Alteration triplet %: was calculated as [number of successful alternations/(total number of arms entries-2) × 100]. n=10. Values are mean ± standard error of means.

Supplementary Tables

Supplementary Table 1. Primers used for qPCR

Mouse Gene	Forward Primer (5'→3')	Reverse Primer (5'→3')
TNF- α	CTTGTTGCCTCCTCTTTTGCTTA	CTTTATTTCTCTCAATGACCCG TAG
IL-1 β	TGGGAAACAACAGTGGTCAGG	CTGCTCATTACGAAAAGGGA
IL-6	TCACAGAAGGAGTGGCTAAGGA CC	ACGCACTAGGTTTGCCGAGTA GAT
IL-10	GGAAGACAATAACTGCACCCAC T	CAACCCAAGTAACCCTTAAAG TCC
β -actin	TGAGAGGGAAATCGTGCGTGAC	GCTCGTTGCCAATAGTGATGA CC