Supplemental figure 1. Volume of rectal gas evacuated 6 h after basal and challenge test meal. Individual data are shown.

Supplemental figure 2. Comparison of the microbial community between healthy subjects and patients before (HB and PB, respectively) and after flatulogenic diet (HA and PA, respectively). A. PCoA of weighted UniFrac (left figure) and unweighted UniFrac (right figure) distances between 16S rRNA datasets. B. The distribution of phylum-level taxa and their proportion of 16S rRNA sequences.

Supplemental figure 3. Lower microbial richness in the patients' group after flatulogenic diet challenge. Data from healthy subjects (n=20) and patients (n=30) before (HB and PB, respectively) and after flatulogenic diet (HA and PA, respectively). A. Chao1 estimation returns an estimate of species richness. B. Average number of OTUs calculated for the 4 sets of data. Paired t tests were calculated between paired samples (before and after flatulogenic diet). Statistical analysis was performed using Student's t test. P values < 0.05 were referred as significant.