



- 3** p_Actinobacteria;c_Actinobacteria;o_Bifidobacteriales;f_Bifidobacteriaceae;g_Bifidobacterium
- 6** p_Bacteroidetes;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
- 7** p_Bacteroidetes;c_Bacteroidia;o_Bacteroidales;f_Porphyrimonadaceae;g_Parabacteroides
- 8** p_Bacteroidetes;c_Bacteroidia;o_Bacteroidales;f_Prevotellaceae;g_Prevotella
- 9** p_Bacteroidetes;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g__
- 10** p_Bacteroidetes;c_Bacteroidia;o_Bacteroidales;f_S24-7;g__
- 27** p_Firmicutes;c_Clostridia;o_Clostridiales;f__;g__
- 32** p_Firmicutes;c_Clostridia;o_Clostridiales;f_Lachnospiraceae;Other
- 33** p_Firmicutes;c_Clostridia;o_Clostridiales;f_Lachnospiraceae;g__
- 35** p_Firmicutes;c_Clostridia;o_Clostridiales;f_Lachnospiraceae;g_Blautia
- 36** p_Firmicutes;c_Clostridia;o_Clostridiales;f_Lachnospiraceae;g_Coprococcus
- 37** p_Firmicutes;c_Clostridia;o_Clostridiales;f_Lachnospiraceae;g_Dorea
- 38** p_Firmicutes;c_Clostridia;o_Clostridiales;f_Lachnospiraceae;g_Lachnobacterium
- 39** p_Firmicutes;c_Clostridia;o_Clostridiales;f_Lachnospiraceae;g_Lachnospira
- 40** p_Firmicutes;c_Clostridia;o_Clostridiales;f_Lachnospiraceae;g_Roseburia
- 41** p_Firmicutes;c_Clostridia;o_Clostridiales;f_Lachnospiraceae;g_[Ruminococcus]
- 45** p_Firmicutes;c_Clostridia;o_Clostridiales;f_Ruminococcaceae;g__
- 47** p_Firmicutes;c_Clostridia;o_Clostridiales;f_Ruminococcaceae;g_Oscillospira
- 48** p_Firmicutes;c_Clostridia;o_Clostridiales;f_Ruminococcaceae;g_Ruminococcus
- 50** p_Firmicutes;c_Clostridia;o_Clostridiales;f_Veillonellaceae;g_Dialister
- 62** p_Firmicutes;c_Erysipelotrichi;o_Erysipelotrichales;f_[Coprobacillaceae];g__
- 69** p_Proteobacteria;c_Betaproteobacteria;o_Burkholderiales;f_Alcaligenaceae;g_Sutterella
- 80** p_Verrucomicrobia;c_Verrucomicrobiae;o_Verrucomicrobiales;f_Verrucomicrobiaceae;g_Akkermansia

Supplemental Fig.S1. The taxonomic composition at genus level of gut microbiome determined by 16S rRNA analysis of stool samples collected from healthy volunteers. Top 7 genera of *Coprococcus* (#36, p_Firmicutes, f_Lachnospiraceae), *Bacteroides* (#6, p_Bacteroidetes, f_Bacteroidaceae), *Roseburia* (#40, p_Firmicutes, f_Lachnospiraceae), *Prevotella* (#8, p_Bacteroidetes, f_Prevotellaceae), non-identifies genus of f_Lachnospiraceae (#32, p_Firmicutes), non-identifies genus of f_Coprobacillaceae (#62, p_Firmicutes), *Blautia* (#35, p_Firmicutes, f_Lachnospiraceae).