Table 1 Changes in microbiota composition associated with obesity.

Models	Disease	Implicated microbiota	Reference
Rat	Obesity	Altered gut microbiota	29,30
Rat	Obesity	*Firmicutes* ↑, *Bacteroidetes* ↓	31,32
Human	Obesity	*Firmicutes* ↑, *Bacteroidetes* ↓	37, 38, 39, 40, 41
Human	Obesity	*Proteobacteria* ↑, *Bacteroidetes* ↑, *Campylobacter* ↑, *Shigella* ↑, *Lactobacillus* ↑, *Clostridium coccoides* ↑, *Bifidobacterium* ↑, *Akkermansia muciniphila* ↓, *Clostridium leptum* ↓, *Bacteroides fragilis* ↓, *Bifidobacterium catenulatum* ↓	43,44
Human	Obesity	H2-producing *Prevotellaceae* ↑, H2-utilizing methanogenic *Archaea* ↑	46
Human	Obesity	*Enterobacter* ↑	48