

Table S2. Microbiota (P42) at several taxonomic levels correlated with P42 metabolic outcomes. Correlations with $0.7 < Rho < -0.7$ are displayed.

	Taxonomic level	Body weight	Leptin levels	Inguinal fat	Σ White fat
<u>Bacteroidetes</u>	Phylum			-0,77	
Bacteroidales	Order			-0,77	
Porphyromonadaceae	Family	0,73			
Odoribacter	Genus	0,73			
S24-7	Family				-0,72
S24-7 Uncultured Bacterium	Genus				-0,72
S24-7 Ambiguous_taxa	Genus		-0,83		
<u>Proteobacteria</u>	Phylum				
Enterobacteriales	Order		0,71		
Enterobacteriaceae	Family		0,71		
Escherichia-Shigella	Genus		0,71		
<u>Firmicutes</u>	Phylum				
Clostridiaceae 1	Family		0,85		
Clostridium sensu stricto 1	Genus		0,85		
Marvinbryantia	Genus		0,78		
Christensenella	Genus		-0,71		