

**Supplementary Table S1. Primer sets used for semi-quantitative PCR of cytokines**

Gene Name	Product Size	Sequence (5' to 3')
IL-1 $\beta$	282bp	GCC TTG GGC CTC AAA GGA AAG AAT C GGA AGA CAC AGA TTC CAT GGT GAA G
IL-6	155bp	TGG AGT CAC AGA AGG AGT GGC TAA G TCT GAC CAC AGT GAG GAA TGT CCA C
IL-12 p40	201bp	GTC CTC AGA AGC TAA CCA TC TTT CCA GAG CCT ATG ACT CC
TNF $\alpha$	258bp	ATA GCT CCC AGA AAA GCA AGC CAC CCC GAA GTT CAG TAG ACA
$\beta$ - actin	349bp	TGG AAT CCT GTG GCA TCC ATG AAA C TAA AAC GCA GCT CAG TAA CAG TCC G

Supplementary Table S2. Primer sets used for quantitative PCR of 16S rRNA of specific species or genus

Target organism	Primer set	Product size	Sequence (5' to 3')
<b>Eubacteria</b>	UniF340	210	ACT CCT ACG GGA GGC AGC AGT
	UniR514		ATT ACC GCG GCT GCT GGC
<b>Lactobacillus</b>	LabF362	315	AGC AGT AGG GAA TCT TCC A
	LabR677		CAC CGC TAC ACA TGG AG
<b>Bacteroides</b>	BactF285	53	GGT TCT GAG AGG AGG TCC C
	UniR338		GCT GCC TCC CGT AGG AGT
<b>Faecalibacterium prausnitzii</b>	Fprau223F	199	GAT GGC CTC GCG TCC GAT TAG
	Fprau420R		CCG AAG ACC TTC TTC CTC C