

Table S1. *S. Typhimurium* becomes the dominant species in colon of SIHUMI mice previously associated with *A. muciniphila*.

Data are expressed as mean \pm standard error. Different superscripts indicate statistically significant differences ($P \leq 0.05$). n = 10 mice per group. DW: dry weight.

Colon	SIHUMI $\log_{10} (\text{g}^{-1} \text{DW})$	SIHUMI-S $\log_{10} (\text{g}^{-1} \text{DW})$	SIHUMI-A $\log_{10} (\text{g}^{-1} \text{DW})$	SIHUMI-AS $\log_{10} (\text{g}^{-1} \text{DW})$
<i>A caccae</i>	8.6 \pm 0.6 ^b	9.2 \pm 0.3 ^b	8.9 \pm 0.3 ^b	6.9 \pm 1.2 ^a
<i>B longum</i>	9.0 \pm 0.2 ^b	9.1 \pm 0.5 ^b	9.4 \pm 0.2 ^b	7.4 \pm 1.4 ^a
<i>B producta</i>	10.2 \pm 0.5 ^b	10.5 \pm 0.2 ^b	10.6 \pm 0.2 ^b	7.7 \pm 1.3 ^a
<i>B thetaiotaomicron</i>	10.7 \pm 0.5 ^b	11.0 \pm 0.3 ^b	11.5 \pm 0.4 ^b	9.2 \pm 0.9 ^a
<i>C ramosum</i>	9.0 \pm 0.3 ^b	9.7 \pm 0.3 ^c	8.9 \pm 0.5 ^b	8.0 \pm 1.1 ^a
<i>E coli</i>	9.3 \pm 0.4 ^b	8.7 \pm 0.3 ^b	9.2 \pm 0.6 ^b	6.1 \pm 0.8 ^a
<i>C butyricum</i>	9.5 \pm 0.3 ^b	9.3 \pm 0.4 ^b	9.5 \pm 0.3 ^b	8.2 \pm 1.4 ^a
<i>A muciniphila</i>	n.d.	n.d.	10.4 \pm 0.2 ^b	8.1 \pm 0.6 ^a
<i>Salmonella</i>	n.d.	9.7 \pm 0.2 ^a	n.d.	10.0 \pm 0.4 ^a
Total bacteria	10.6 \pm 0.7 ^b	10.7 \pm 0.6 ^b	11.1 \pm 0.8 ^b	9.3 \pm 0.7 ^a