Table S1. Range and median of relative abundance of each bacterial taxa

	Median occupancy (%)			
Phylum	Week 0	Week 4	Week 8	Week 12
Firmicutes	67.25 (56.80 - 79.51)	78.06 (52.43 - 87.44)	66.61 (44.03 - 90.02)	70.50 (61.38 - 94.03)
Actinobacteria	4.03 (1.75 - 5.91)	6.39# (1.99 - 10.87)	9.70 # (3.29 - 13.38)	6.58 (3.00 - 9.55)
Fusobacteria	6.92 (1.54 - 11.29)	1.48# (0.55 - 8.22)	1.38# (0.75 - 5.27)	2.28 (0.02 - 4.59)
Bacteroidetes	4.10 (1.14 - 5.07)	2.26 (0.84 - 6.38)	2.66 (0.68 - 3.54)	0.79* (0.00 - 0.81)
Proteobacteria	2.16 (0.62 - 3.72)	1.27 (0.25 - 5.54)	0.88 (0.25 - 2.40)	0.40 (0.02 - 2.28)
Tenericutes	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)
Rejected hit †	15.54 (9.28 - 22.14)	10.54 (6.81 - 28.18)	18.77 (4.11 - 34.10)	19.45 (2.93 - 30.41)

Genus §	Week 0	Week 4	Week 8	Week 12
Lactobacillus	39.14 (10.79 - 47.51)	49.04 (19.22 - 68.46)	45.65 (9.51 - 60.79)	46.49 (34.58 - 75.80)
Blautia	11.84 (10.61 - 21.55)	12.29 (5.58 - 13.34)	8.65 (7.62 - 10.69)	9.55 (7.17 - 14.89)
Peptoclostridium	4.49 (3.55 - 8.61)	5.42 (1.98 - 8.33)	4.11 (3.91 - 5.34)	5.26 (2.60 - 7.39)
Bifidobacterium	0.63 (0.01 - 4.82)	4.19 # (0.25 - 9.73)	7.64 # (1.85 - 11.75)	5.83 (2.21 - 8.42)
Romboutsia	3.11 (0.25 - 14.41)	4.03 (0.38 - 6.87)	1.43 (0.34 - 10.66)	2.88 (1.69 - 10.09)
Fusobacterium	7.42 (1.54 - 11.29)	1.53# (0.55 - 8.22)	1.44 # (0.75 - 5.27)	2.41 (0.02 - 4.59)
Streptococcus	1.54 (0.05 - 3.31)	1.70 (0.00 - 7.06)	1.29 (0.00 - 18.13)	0.07 (0.00 - 1.03)
Prevotella	2.24 (0.57 - 4.20)	1.46 (0.22 - 5.60)	1.78 (0.31 - 2.73)	0.59 * (0.00 - 0.64)
Enterococcus	1.19 (0.04 - 4.56)	1.00 (0.01 - 5.17)	0.73 (0.11 - 3.51)	0.39 (0.00 - 3.67)
Clostridium	0.89 (0.62 - 7.44)	0.81 (0.01 - 1.73)	0.42 (0.12 - 4.30)	1.25 (0.01 - 1.61)
Collinsella	1.83 (0.74 - 3.03)	1.49 (0.81 - 1.96)	1.37 (0.72 - 2.21)	0.96 (0.59 - 0.98)
Faecalibacterium	2.01 (1.18 - 3.00)	1.14 (0.73 - 1.18)	1.16 (0.43 - 1.75)	0.85 (0.01 - 1.71)
Lachnoclostridiu	0.97 (0.68 - 1.87)	1.05 (0.70 - 1.49)	1.00 (0.41 - 1.81)	0.73 (0.41 - 1.10)
Megamonas	1.15 (0.17 - 4.05)	0.43 (0.22 - 1.26)	0.58 (0.20 - 1.70)	0.02 * (0.00 - 0.49)
Bacteroides	0.71 (0.33 - 2.07)	0.69 (0.42 - 0.74)	0.60 (0.37 - 1.80)	0.17 * (0.00 - 0.28)
Parasutterella	0.16 (0.00 - 1.96)	0.68 (0.00 - 2.61)	0.56 (0.01 - 2.06)	0.17 (0.00 - 0.43)
naerobiospirillu	0.36 (0.00 - 1.41)	0.01 (0.00 - 3.77)	0.00 (0.00 - 0.28)	0.01 (0.00 - 1.40)
Ruminococcus	0.44 (0.19 - 0.82)	0.41 (0.21 - 0.57)	0.39 (0.20 - 0.77)	0.48 (0.10 - 0.72)
ascolarctobacteri	0.42 (0.10 - 0.97)	0.33 (0.27 - 1.04)	0.52 (0.08 - 1.01)	0.11 (0.01 - 0.26)
ysipelatoclostridi	0.33 (0.15 - 0.76)	0.22 (0.17 - 0.54)	0.30 (0.13 - 0.39)	0.38 (0.17 - 0.43)
Allobaculum	0.55 (0.00 - 1.08)	0.25 (0.03 - 0.37)	0.11 (0.09 - 0.22)	0.33 (0.04 - 0.52)
Terrisporobacter	0.12 (0.00 - 2.91)	0.09 (0.00 - 0.27)	0.04 (0.00 - 0.24)	0.02 (0.01 - 0.44)
Escherichia	0.40 (0.00 - 1.83)	0.05 (0.00 - 0.20)	0.00 (0.00 - 0.54)	0.00 (0.00 - 0.09)
Slackia	0.29 (0.17 - 0.64)	0.20 (0.05 - 0.36)	0.15 (0.05 - 0.17)	0.15 (0.10 - 0.36)
Sutterella	0.25 (0.07 - 0.94)	0.10 (0.03 - 0.20)	0.09 (0.01 - 0.15)	0.02 (0.00 - 0.07)
Turicibacter	0.27 (0.00 - 0.51)	0.02 (0.00 - 0.21)	0.04 (0.00 - 0.53)	0.02 (0.00 - 0.31)
Helicobacter	0.06 (0.00 - 0.20)	0.05 (0.01 - 0.40)	0.03 (0.00 - 0.20)	0.01 (0.00 - 0.45)
Butyricicoccus	0.11 (0.07 - 0.12)	0.12 (0.09 - 0.18)	0.10 (0.08 - 0.17)	0.05 * (0.01 - 0.12)
Lactonifactor	0.09 (0.05 - 0.24)	0.05 (0.02 - 0.13)	0.04 (0.02 - 0.11)	0.04 (0.01 - 0.22)
Campylobacter	0.11 (0.00 - 0.17)	0.04 (0.00 - 0.57)	0.01 (0.00 - 0.06)	0.00 (0.00 - 0.13)
Catenibacterium	0.04 (0.02 - 0.42)	0.02 (0.00 - 0.18)	0.03 (0.01 - 0.08)	0.01 (0.00 - 0.15)
Adlercreutzia	0.06 (0.00 - 0.08)	0.06 (0.01 - 0.10)	0.07 (0.02 - 0.09)	0.07 (0.04 - 0.10)

# $p < 0.1$ vs. 0 weeks
* $p < 0.05$ vs. 8 weeks

† Rejected hit include those whose sequences shared less than 97% homology to any species listed in TechnoSuruga Lab Microbial Identification database DB-BA 10 (TechnoSuruga Laboratory, Shizuoka, Japan).

§ Genus whose median occupancy exceeded 0.1% are listed.