



**Figure S1A.** The plot of top 15 bacterial relative abundances at the family level in each age group.

**Table S1A.** The top 15 bacterial relative abundances

<b>Top15 Genus abundance</b>	<b>Age group (n)</b>	<b>&lt;1y (9) Median [min-max]</b>	<b>&lt;1y versus &gt;1 - 5y (16) p value</b>	<b>&lt;1y versus &gt;6 - 17y (36) p value</b>	<b>&lt;1y versus &gt;18y (15) p value</b>
<i>[Eubacterium] coprostanoligenes</i> group		0 [0-0]	0.0138	0.0007	0.0006
<i>[Eubacterium] rectale</i> group		0 [0-0]	0.0183	0.0091	0.0225
<i>Bacteroides</i>		0 [0-0.0048]	0.0171	0.0625	0.0362
<i>Bifidobacterium</i>		0.0222 [0-0.8670]	0.8661	1.0000	1.0000
<i>Escherichia-Shigella</i>		0.00125 [0-0.720]	0.3045	0.0512	0.0872
<i>Faecalibacterium</i>		0 [0-0.0013]	0.0005	0.0005	0.0362
<i>Klebsiella</i>		0 [0-0.0160]	0.0138	0.0030	0.0321
<i>Lachnospiraceae</i> NK4A136 group		0 [0-0]	0.0016	0.0007	0.0036
<i>Megasphaera</i>		0 [0-0,6535]	1.0000	1.0000	1.0000
<i>Prevotella 9</i>		0 [0-0.5423]	0.0165	0.0026	0.2495
<i>Roseburia</i>		0.0135 [0-0.0295]	0.0029	0.0011	0.0170
<i>Ruminococcaceae</i> UCG-002		0 [0-0.0003]	0.0165	0.0007	0.0006
<i>Streptococcus</i>		0 [0-0.0073]	0.5373	0.2866	0.3871
<i>Subdoligranulum</i>		0 [0-0.008]	0.0043	0.0007	0.0004
<i>Veillonella</i>		0 [0-0.0158]	0.4681	0.0606	0.1607

Comparison between the group <1 year and the other age groups, at the genus level.

p value by Kruskal Wallis test.

y means year