

Supplementary Table 2. Median relative abundance of core species in healthy and CF children across different age groups. The Mann-Whitney U test was approached for statistical comparison with the corresponding effect size (r) and the confidence intervals of the effect size (CI).

Age group	0 years	0 years	0 years	0 years	0 years	1-3 years	1-3 years	1-3 years	1-3 years	1-3 years	4-6 years	4-6 years	4-6 years	4-6 years	
State	Healthy	CF	Mann-Whitney U test			Healthy	CF	Mann-Whitney U test			Healthy	CF	Mann-Whitney U test		
Statistics	median	median	p-value	effect size r	CI (r)	median	median	p-value	effect size r	CI (r)	median	median	p-value	effect size r	CI (r)
Sample size	n = 28	n = 6				n = 9	n=20				n = 15	n = 16			
Genera and core species thereof															
<i>Actinomyces meyeri</i>	0.24	0	0.07	0.32	-0.18 - 0.64	1.44	0.34	0.03	0.41	0.07 - 0.68	<b>1.71</b>	<b>0.17</b>	<b>0.0004</b>	<b>0.64</b>	<b>0.35 - 0.83</b>
<i>Atopobium parvulum</i>	0.13	0.02	0.09	0.3	-0.01 - 0.56	0.12	0.05	0.12	0.3	-0.05 - 0.63	<b>0.54</b>	<b>0.27</b>	<b>0.007</b>	<b>0.49</b>	<b>0.16 - 0.73</b>
<i>Campylobacter concisus</i>	0.2	0	0.02	0.43	0.21 - 0.61	1.21	0.83	0.49	0.13	-0.22 - 0.47	<b>7.47</b>	<b>3.45</b>	<b>0.004</b>	<b>0.5</b>	<b>0.18 - 0.75</b>
<i>Capnocytophaga</i>	0.02	0				0.31	0.79				1.98	0.89			
<i>Capnocytophaga gingivalis</i>	0	0	0.24	0.21	-0.05 - 0.42	0.13	0.33	0.04	0.4	-0.66 - 0.06	1.21	0.54	0.10	0.3	-0.04 - 0.61
<i>Capnocytophaga leadbetteri</i>	0.02	0	0.19	0.24	-0.16 - 0.5	0.18	0.46	0.41	0.16	-0.53 - 0.24	0.77	0.35	0.03	0.38	0.04 - 0.65
<i>Corynebacterium argentoratense</i>	0	0	1	0	-0.39 - 0.28	<b>0.02</b>	<b>0</b>	<b>0.0006</b>	<b>0.64</b>	<b>0.31 - 0.89</b>	0.01	0	0.14	0.27	-0.05 - 0.59
<i>Eubacterium sulci</i>	0.02	0	0.04	0.37	0.13 - 0.58	0.13	0.23	0.34	0.18	-0.21 - 0.54	<b>2.84</b>	<b>0.43</b>	<b>0.001</b>	<b>0.6</b>	<b>0.32 - 0.8</b>
<i>Fusobacterium periodonticum</i>	0.02	0	0.16	0.25	-0.04 - 0.5	0.48	1.83	0.65	0.09	-0.27 - 0.46	<b>14.22</b>	<b>2.45</b>	<b>0.002</b>	<b>0.56</b>	<b>0.28 - 0.76</b>
<i>Haemophilus</i>	1.26	0.02				4.63	16.08				7.03	13.15			
<i>Haemophilus influenzae</i>	0.72	0.02	0.82	0.04	-0.4 - 0.43	2.08	6.62	0.98	0.01	-0.43 - 0.38	3.07	3.21	0.86	0.04	-0.33 - 0.4
<i>Haemophilus parainfluenzae</i>	0.54	0	0.04	0.36	-0.02 - 0.63	2.55	9.46	0.69	0.08	-0.49 - 0.34	3.96	9.94	0.80	0.05	-0.42 - 0.32
<i>Neisseria</i>	0.3	0				4.4	3.58				1.55	3.54			
<i>Neisseria gonorrhoeae</i>	0.04	0	0.15	0.25	-0.17 - 0.53	0.68	0.45	0.91	0.03	-0.32 - 0.37	0.15	0.45	0.92	0.02	-0.34 - 0.37
<i>Neisseria lactamica</i>	0.13	0	0.17	0.24	-0.24 - 0.55	0.86	0.79	0.76	0.06	-0.29 - 0.4	0.3	0.33	0.31	0.18	-0.16 - 0.52
<i>Neisseria meningitidis</i>	0.08	0	0.22	0.22	-0.19 - 0.51	1.28	0.64	0.62	0.1	-0.27 - 0.42	0.25	0.44	0.81	0.05	-0.35 - 0.4
<i>Neisseria mucosa</i>	0.05	0	0.08	0.31	-0.03 - 0.59	1.58	1.7	0.45	0.14	-0.48 - 0.16	0.85	2.32	0.32	0.18	-0.53 - 0.18
<i>Prevotella</i>	1.32	0				8.63	4.64				14.87	18.01			
<i>Prevotella jejuni</i>	0.16	0	0.04	0.37	0.12 - 0.56	0.71	0.5	0.17	0.26	-0.09 - 0.57	3.89	1.87	0.16	0.26	-0.08 - 0.57
<i>Prevotella melaninogenica</i>	1.16	0	0.02	0.43	0.18 - 0.63	7.92	4.14	0.94	0.02	-0.32 - 0.33	10.98	16.14	0.86	0.04	-0.32 - 0.38
<i>Rothia</i>	15.98	9.58				35.3	40.7				15.53	18.48			
<i>Rothia aeria</i>	<b>0.07</b>	<b>0.02</b>	<b>0.004</b>	<b>0.51</b>	<b>0.28 - 0.69</b>	0.28	0.48	0.89	0.03	-0.38 - 0.32	0.31	0.27	0.59	0.1	-0.45 - 0.27

<i>Rothia mucilaginosa</i>	15.91	9.56	0.14	0.26	-0.16 - 0.56	35.06	40.18	0.80	0.05	-0.4 - 0.31	15.22	18.21	0.52	0.12	-0.44 - 0.28
<i>Streptococcus</i>	76.61	88.64				39.41	28.12				18.96	28.12			
<i>Streptococcus equinus</i>	2.39	6.86	0.21	0.23	-0.56 - 0.25	6.43	2.5	0.22	0.24	-0.13 - 0.55	2.01	1.16	0.61	0.1	-0.46 - 0.29
<i>Streptococcus mitis</i>	41.97	36.18	0.94	0.02	-0.32 - 0.29	4.96	8.55	0.41	0.16	-0.21 - 0.5	3.35	2.93	0.37	0.16	-0.18 - 0.5
<i>Streptococcus oralis</i>	3.12	3.11	0.71	0.07	-0.3 - 0.49	2.05	1.91	0.94	0.02	-0.33 - 0.37	1.29	1.13	0.98	0.01	-0.36 - 0.36
<i>Streptococcus parasanguinis</i>	7.09	13.25	0.19	0.23	-0.11 - 0.49	14.67	3.27	0.05	0.37	0.03 - 0.66	5.97	17.23	0.03	0.38	-0.66 - 0.05
<i>Streptococcus pneumoniae</i>	7.75	4.31	0.74	0.06	-0.34 - 0.44	2.83	3.36	0.25	0.22	-0.16 - 0.54	1.49	1.28	0.53	0.12	-0.26 - 0.46
<i>Streptococcus pseudopneumoniae</i>	12.58	16.76	0.75	0.06	-0.37 - 0.28	5.57	5.92	0.53	0.12	-0.25 - 0.47	2.4	1.41	0.20	0.23	-0.14 - 0.56
<i>Streptococcus salivarius</i>	1.28	7.93	0.63	0.09	-0.56 - 0.41	2.7	2.04	0.20	0.24	-0.1 - 0.54	1.9	2.35	0.89	0.03	-0.33 - 0.36
<i>Streptococcus sanguinis</i>	0.43	0.24	0.86	0.04	-0.37 - 0.46	0.2	0.57	0.25	0.22	-0.56 - 0.14	0.37	0.48	0.37	0.16	-0.49 - 0.2
<i>Streptococcus thermophilus</i>	0.6	0.81	0.80	0.05	-0.55 - 0.44	0.27	0.15	0.21	0.24	-0.12 - 0.54	0.18	0.15	0.98	0.01	-0.38 - 0.34
<i>Veillonella</i>	3.3	0.92				3.59	2.7				13.29	11.05			
<i>Veillonella atypica</i>	<b>2.6</b>	<b>0.8</b>	<b>0.009</b>	<b>0.44</b>	<b>0.14 - 0.66</b>	1.78	1.31	0.25	0.22	-0.14 - 0.53	11.48	9.23	0.89	0.03	-0.39 - 0.33
<i>Veillonella parvula</i>	0.7	0.12	0.02	0.42	0.09 - 0.67	1.81	1.39	0.35	0.18	-0.17 - 0.49	1.81	1.82	0.25	0.21	-0.54 - 0.16

Significant differences in relative abundance between samples from healthy and CF children are highlighted in bold font. The significance level for statistical testing was 0.01.