

Supplementary Figure S1. Sequencing depth with alpha rarefaction curves in all analyzed samples (n = 142). Samples with PMA treatment (+PMA; only viable genera) as well as without PMA treatment (-PMA; both viable and non-viable bacterial genera) are shown.

		human milk								_		
			0 h		24 h		48 h	6	weeks	pump swabs	negative controls	
total n = 142	label	+PMA n = 12 (8.5%)	-PMA n = 12 (8.5%)	+PMA n = 12 (8.5%)	-PMA n = 12 (8.5%)	+PMA n = 12 (8.5%)	-PMA n = 12 (8.5%)	+PMA n = 12 (8.5%)	-PMA n = 12 (8.5%)	-PMA n = 24 (16.9%)	-PMA n = 22 (15.5%)	<i>p</i> -value
sequencing depth												
[0 1440 <u>5959.5</u> 34602 236697] 25658.81±40063.76	five number summary [mean±sd	687 3923 <u>9003.5</u> 19490 60027] 14562.92±16904.53	[23342 29982 <u>72746</u> 109257.5 236697] 85814.17±65165.99	[518 1589.5 <u>4950.5</u> 9283.5 58138] 11022.08±16947.94	[6369 38159.5 <u>61510.5</u> 74114.5 125347] 56355.5±32357.58	[557 1249.5 <u>3333</u> 12312.5 64698] 10766.67±18297.46	[2780 15560.5 <u>56298</u> 80459 148187 56371.08±47246.3	7] [187 448 <u>965.5</u> 3781.5 8890] 2636±3143.96	[1753 8956 <u>43313</u> 66746 86622 41003.75±30897.43	2] [0 876 <u>1619</u> 4751.5 157290] 9055.79±31665.87	[229 803 <u>2242</u> 3548 29 3810.27±6223.63	(572] <0.001 <0.001
Shannon index												
[0 3.7 <u>4.75</u> 5.61 6.29] 4.53±1.28	five number summary mean±sd	[2.58 4.63 <u>4.98</u> 5.49 6.29] 4.83±1.05	[5.16 5.56 <u>5.85</u> 5.97 6.18] 5.76±0.33	[2.28 3.91 <u>4.49</u> 4.95 5.82] 4.38±1	[4.9 5.32 <u>5.63</u> 5.95 6.1] 5.59±0.41	[2.36 3.58 <u>4.13</u> 4.67 5.61] 4.08±0.98	[4.33 5.2 <u>5.7</u> 5.97 6.23] 5.51±0.6	[1.89 2.47 <u>3.98</u> 4.44 4.8] 3.58±1.08	[4.9 5.59 <u>5.7</u> 5.83 5.94] 5.63±0.33	[0 2.74 <u>3.95</u> 4.56 5.57] 3.62±1.32	[1.53 2.98 <u>3.93</u> 4.75 6. 3.84±1.24	.09] <0.001 <0.001
Acinetobacter (CLR transformatio	on)											
[-1.27 -0.56 <u>-0.2</u> 7.16 15.4] 2.61±4.34	five number summary mean±sd	[-0.88 -0.58 <u>-0.2</u> 6.71 9.78] 2.94±4.4	[-1.15 -0.56 <u>6.56</u> 8.79 9.65] 4.88±4.41	[-0.91 -0.54 <u>-0.32</u> 7.68 10.29] 2.59±4.6	[-0.78 3.03 <u>7.37</u> 8.09 11.09] 5.81±4.05	[-0.7 -0.18 <u>6.53</u> 8.24 15.4] 5.14±5.32	[-0.9 -0.6 <u>-0.17</u> 8.03 9.41] 3.07±4.52	[-0.67 -0.45 <u>-0.21</u> -0.13 0.09] -0.27±0.23	[-0.94 -0.8 <u>-0.62</u> -0.39 6.3] -0.04±2.01	[-1.13 -0.41 <u>-0.21</u> 6.44 12.14] 2.5±4.45	[-1.27 -0.56 <u>-0.28</u> -0.04 1 0.97±3.59	11.41] 0.1 <0.001
Anaerococcus (CLR transformatio	n)											
[-1.37 -0.58 <u>-0.3</u> 0.21 10.54] 1.57±3.74	five number summary mean±sd	[-0.83 -0.57 <u>-0.33</u> 7.04 10.38] 2.92±4.41	[-1.13 -0.69 <u>6.5</u> 8.51 10.51] 4.42±4.69	[-1 -0.55 <u>-0.46</u> -0.28 9.12] 0.77±3.12	[-0.92 -0.77 <u>-0.53</u> 7.09 8.27] 2.1±4.12	[-0.92 -0.74 <u>-0.45</u> -0.24 8.93] 0.26±2.74	[-0.99 -0.47 <u>3.41</u> 8.1 10.31] 3.88±4.66	[-0.51 -0.19 <u>-0.13</u> -0.03 0.21] -0.13±0.19	[-1.29 -0.62 <u>2.74</u> 8.47 10.54] 3.63±4.71	[-1 -0.73 <u>-0.26</u> -0.11 10.02] 0.43±2.87	[-1.37 -0.49 <u>-0.35</u> -0.29 8 -0.07±1.85	8.06] 0.519 0.007
Bacillus (CLR transformation)												
[-1.42 -0.44 <u>6.93</u> 9.36 19.53] 5.39±6.2	five number summary mean±sd	[-0.59 -0.48 <u>6.67</u> 9.67 16.72] 5.8±6.27	[-1.21 -0.74 <u>7.3</u> 12.86 18.38] 6.73±7.63	[-0.58 -0.39 <u>7.92</u> 10.9 17.07] 6.43±6.59	[-0.94 -0.58 <u>7.81</u> 11.51 17.56] 6.63±7.14	[-0.89 -0.56 <u>-0.17</u> 10.32 16.17] 4.48±6.4	[-0.8 -0.21 <u>8.35</u> 10.22 19.15] 7.37±6.82	[-0.36 -0.13 <u>-0.03</u> 8.46 15.34] 3.36±5.42	[-1.16 3.14 <u>8.22</u> 9.23 18.33] 7.7±6.37	[-0.71 -0.09 <u>7.88</u> 9.38 19.53] 5.59±5.54	[-1.42 -0.47 <u>-0.16</u> 7.56 1 2.26±4.52	1.02] 0.768 0.519
Bacteroides (CLR transformation)												
[-1.35 -0.76 <u>-0.44</u> -0.11 9.33] 0.45±2.73	five number summary mean±sd	[-0.89 -0.78 <u>-0.41</u> 2.87 8.61] 1.3±3.48	[-1.13 -1.04 <u>-0.72</u> -0.3 8.93] 0.64±3.32	[-0.98 -0.67 <u>-0.63</u> -0.5 -0.26] -0.6±0.18	[-1.35 -1.18 <u>-0.78</u> -0.5 0.03] -0.78±0.47	[-0.87 -0.45 <u>-0.33</u> -0.26 7.78] 0.28±2.37	[-1.22 -1.1 <u>-0.77</u> -0.43 -0.06] -0.74±0.39	[-0.76 -0.32 <u>-0.25</u> -0.08 0.1] -0.24±0.24	[-0.98 -0.89 <u>-0.43</u> -0.18 -0.11] -0.5±0.34	[-1.09 -0.6 <u>-0.3</u> 3.52 9.33] 1.71±3.87	[-1.08 -0.58 <u>-0.22</u> 0 8.9 1.38±3.49	97] 0.007 0.001
Cutibacterium (CLR transformatio	on)											
[-0.86 -0.26 <u>7.53</u> 9.65 11.99] 5.39±4.82	five number summary mean±sd	[-0.32 7.59 <u>8.37</u> 9.29 10.61] 7.86±2.78	[-0.41 8.85 <u>10.43</u> 10.77 11.59] 9.24±3.24	[7.21 7.72 <u>8.23</u> 9.39 11.41] 8.71±1.39	[6.34 7.54 <u>9.16</u> 10.54 11.99] 9.14±1.92	[-0.78 5.82 <u>7.15</u> 9.45 10.73] 6.63±3.77	[-0.54 7.31 <u>9.4</u> 10.57 11.5] 7.91±4.17	[-0.51 -0.28 <u>-0.23</u> -0.15 0.01] -0.22±0.14	[-0.86 -0.8 <u>-0.62</u> -0.27 -0.06] -0.53±0.29	[-0.69 -0.45 <u>-0.16</u> 9.48 11.94] 4.21±5.24	[-0.73 -0.22 <u>0</u> 9.25 10.0 3.58±4.77	68] <0.001 <0.001
Diaphorobacter (CLR transformat	ion)											
[-1.29 -0.31 <u>6.28</u> 8.96 15.82] 4.54±4.86	five number summary mean±sd	[6.73 8.23 <u>8.92</u> 9.59 10.92] 8.91±1.13	[-0.72 2.89 <u>7.92</u> 9.97 15.82] 6.94±5.11	[-0.58 -0.19 <u>8.16</u> 8.67 11.7] 5.75±4.63	[-1.29 -0.62 <u>-0.24</u> 6.89 10.78] 2.71±4.34	[-0.49 7.09 <u>8.22</u> 9.6 11.51] 7.24±3.79	[-1.12 2.59 <u>7.81</u> 8.8 9.32] 5.78±4.17	[-0.61 -0.39 <u>-0.16</u> 0 0.21] -0.18±0.25	[-1.13 -0.67 <u>-0.57</u> -0.29 -0.08] -0.54±0.32	[-0.99 -0.23 <u>3.59</u> 9.59 11.99] 4.63±5.14	[-0.89 -0.31 <u>-0.01</u> 9.4 13 4.27±5.3	3.53] <0.001 <0.001
Gemella (CLR transformation)												
[-1.37 -0.38 <u>0.11</u> 9.91 14.47] 4.75±5.54	five number summary mean±sd	[-0.82 -0.51 <u>3.67</u> 9.04 11.07] 4.37±5.13	[-0.6 8.98 <u>11.64</u> 12.98 14.09] 10.44±3.96	[-0.6 -0.5 <u>-0.28</u> 6.34 11.32] 2.51±4.54	[-0.5 9.24 <u>11.48</u> 12.85 14.04] 10.54±3.91	[-0.59 -0.39 <u>-0.23</u> 2.81 10.29] 1.59±3.61	[-0.45 8.62 <u>10.5</u> 12.23 14.47] 9.21±4.74	[-0.53 -0.16 <u>-0.03</u> 8.42 9.1] 2.81±4.4	[-0.58 7.77 <u>10.55</u> 12 13.6] 8.9±4.76	[-0.92 -0.57 <u>-0.25</u> 2.97 8.92] 1.63±3.67	[-1.37 -0.66 <u>-0.23</u> 0 12. 1.38±4.11	.62] <0.001 <0.001
Rothia (CLR transformation)												
[-1.16 -0.29 <u>7.07</u> 10.33 15.87]		[-0.68 -0.39 <u>7.72</u> 9.22 10.94]	[-0.77 10.89 12.63 13.96 15.87]	[-1.12 -0.61 <u>-0.18</u> 8.28 11.32]	[-1.16 9.46 <u>11.11</u> 13.02 13.76]	[-0.47 -0.3 <u>-0.2</u> 8.05 10.33]	[-0.66 9.06 <u>11.76</u> 13.45 14.17]	[-0.63 -0.19 <u>-0.03</u> 6.64 8.8]	[-0.16 9.71 <u>11.9</u> 12.44 13.12]			
5.38±5.72 Staphylococcus (CLR transformati	mean±sd	5.69±4.72	10.86±5.56	3.35±4.92	9.57±5.14	3.47±4.74	9.73±5.09	2.38±3.85	10.23±3.84	1.22±3.7	3.26±4.9	<0.001
[-0.85 9.38 <u>11.58</u> 13.4 17.51]		[8.57 9.7 11.99 13 15.06]	[10.73 13.16 14.36 15.85 16.5]	[8.87 9.57 11.34 12.88 13.93]	[7.09 12.48 14.13 15.9 17.51]	[-0.85 9.47 <u>11.1</u> 13.04 15.09]	[9.77 11.71 13.43 15.17 16.43]	[6 57 0 71 11 18 13 03 14 47]	[10.64 12.29 13.29 16.02 16.31] [-0.41 3.72 0.21 10.3 12.52]	[-0.42 8.42 9.07 11.34 13	3 52] <0.001
11±3.96	mean±sd	11.62±2.24	14.31±1.75	11.35±1.76	13.84±2.89	10.52±4.13	13.41±2.11	11.18±2.26	13.66±2.1	7.36±4.62	8.51±3.9	<0.001
Streptococcus (CLR transformatio	n)											
[-1.2 8.81 <u>10.85</u> 15.13 19.2]	five number summary	[9.52 10.7 12.66 13.61 16.13]	[11.64 16.05 16.51 17.58 19.2]	[-1.2 9.28 <u>9.93</u> 11.22 13.5]	[11.55 14.82 16.73 17.23 17.9]	[-0.26 2.3 8.51 9.84 12.71]	[13.38 14.87 <u>15.68</u> 17.23 18.07]	[-0.28 0.1 7.75 9.25 11.53]	[12.9 14.68 <u>15.62</u> 16.7 17.58]	[-0.69 2.94 8.51 9.45 12.05]	[-0.57 6.13 <u>9.8</u> 11.28 14	+.15] <0.001
10.76±5.3	mean±sd	12.33±1.93	16.53±1.89	9.61±3.72	15.96±1.88	6.59±4.56	15.79±1.51	5.86±4.51	15.61±1.41	6.69±4.42	8.55±4.24	<0.001
Veillonella (CLR transformation)												
[-1.13 -0.26 <u>7.57</u> 10.56 15.58] 5.69±5.62	five number summary mean±sd	[-0.79 -0.39 <u>8.43</u> 10.49 13.16] 6.48±5.49	[-0.76 8.79 <u>11.33</u> 12.83 14.71] 9.71±5.17	[-0.65 -0.3 <u>3.62</u> 9.19 13.76] 4.68±5.37	[-0.55 8.89 <u>11.02</u> 13.85 15] 9.84±5.28	[-0.62 -0.43 <u>-0.21</u> 7 9.25] 2.4±4.09	[-0.22 8.47 <u>10.93</u> 13.45 15.58] 9.72±5.14	[-0.68 -0.33 <u>-0.14</u> -0.03 9.15] 1.27±3.55	[-0.4 7.85 <u>11.09</u> 12.22 14.17] 9.68±4.33	[-0.78 -0.26 <u>6.74</u> 8.62 11.41] 4.6±4.75	[-1.13 -0.37 - <u>0.08</u> 8.23 1° 2.39±4.49	1.33] <0.001 <0.001
Five-number summary stands for [mining to test difference in means an ANOVA To test difference in medians a non-part All p-values were adjusted using Holm's	mum 1st quartile <u>median</u> test was used. rametric ANOVA (Kruskal-Wa	3rd quartile maximum].	9.1153.11	T.0013.37	7.07±3.20	2.71.07	J.1 Z.1 J. 1 T	1.27 ±3.33	7.UOL4.33	7.014.73	2.3714.47	30.001
			y index, and centered log-ratio (CLR)-to ent group. All values are rounded to two									

