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| **Table S1A.** The total number of sequence reads for each of the 15 most abundant genera in milk from subjects 1 to 4 |
|  | Subject Identification and Time-point |
|  | S1 | S2 | S3 | S4 |
|  | 1 | 3 | 4 | 1 | 3 | 4 | 1 | 3 | 4 | 1 | 3 | 4 |
| *Streptococcus* | 215 | 225 | 118 | 224 | 1188 | 832 | 1023 | 1077 | 928 | 540 | 769 | 341 |
| *Staphylococcus* | 59 | 48 | 23 | 281 | 556 | 162 | 306 | 231 | 444 | 1436 | 748 | 1398 |
| *Serratia* | 551 | 249 | 637 | 108 | 53 | 13 | 323 | 189 | 437 | 104 | 283 | 188 |
| *Corynebacterium* | 76 | 28 | 12 | 297 | 912 | 519 | 29 | 41 | 79 | 236 | 57 | 81 |
| *Pseudomonas* | 332 | 205 | 293 | 59 | 27 | 5 | 177 | 136 | 208 | 90 | 230 | 105 |
| *Ralstonia* | 682 | 266 | 244 | 33 | 24 | 8 | 107 | 58 | 19 | 388 | 115 | 64 |
| *Propionibacterium* | 82 | 44 | 30 | 45 | 10 | 4 | 242 | 159 | 165 | 68 | 228 | 35 |
| *Sphingomonas* | 309 | 82 | 125 | 31 | 4 | 8 | 35 | 36 | 70 | 33 | 72 | 17 |
| *Rothia* | 0 | 19 | 5 | 13 | 137 | 93 | 143 | 133 | 128 | 17 | 16 | 14 |
| *Bradyrhizobium* | 173 | 165 | 120 | 30 | 13 | 3 | 38 | 25 | 57 | 36 | 48 | 43 |
| *Gemella* | 4 | 34 | 0 | 14 | 104 | 18 | 94 | 13 | 21 | 665 | 64 | 130 |
| *Veillonella* | 30 | 16 | 0 | 17 | 123 | 49 | 7 | 19 | 3 | 3 | 50 | 70 |
| *Actinomyces* | 18 | 1 | 30 | 4 | 65 | 52 | 54 | 55 | 22 | 3 | 3 | 0 |
| *Granulicatella* | 23 | 0 | 0 | 13 | 175 | 44 | 3 | 38 | 4 | 3 | 3 | 2 |
| *Prevotella* | 20 | 0 | 1 | 13 | 230 | 54 | 8 | 10 | 11 | 0 | 13 | 1 |
| Other | 626 | 322 | 297 | 283 | 374 | 139 | 544 | 420 | 331 | 277 | 349 | 169 |
| Total | 3200 | 1704 | 1935 | 1465 | 3995 | 2003 | 3133 | 2640 | 2927 | 3899 | 3048 | 2658 |

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| **Table S1B.** The total number of sequence reads for each of the 15 most abundant genera in milk from subjects 6 to 8 |
|  | Subject Identification and Time-point |
|  | S5 | S6 | S7 | S8 |
|  | 1 | 3 | 4 | 1 | 3 | 4 | 1 | 3 | 4 | 1 | 3 | 4 |
| *Streptococcus* | 360 | 1948 | 370 | 55 | 601 | 410 | 1568 | 1253 | 1092 | 95 | 48 | 480 |
| *Staphylococcus* | 5140 | 1935 | 7520 | 71 | 327 | 247 | 114 | 336 | 99 | 669 | 859 | 1147 |
| *Serratia* | 20 | 97 | 21 | 540 | 1255 | 1274 | 176 | 215 | 221 | 72 | 44 | 421 |
| *Corynebacterium* | 591 | 686 | 527 | 19 | 22 | 28 | 26 | 48 | 9 | 410 | 273 | 768 |
| *Pseudomonas* | 1 | 75 | 9 | 390 | 632 | 756 | 143 | 122 | 158 | 48 | 19 | 212 |
| *Ralstonia* | 3 | 93 | 6 | 36 | 62 | 54 | 70 | 353 | 524 | 26 | 19 | 127 |
| *Propionibacterium* | 4 | 6 | 2 | 53 | 184 | 61 | 83 | 87 | 134 | 180 | 104 | 1403 |
| *Sphingomonas* | 2 | 21 | 9 | 335 | 577 | 541 | 55 | 29 | 45 | 2 | 8 | 50 |
| *Rothia* | 14 | 78 | 18 | 45 | 98 | 268 | 14 | 86 | 200 | 11 | 11 | 163 |
| *Bradyrhizobium* | 3 | 21 | 2 | 211 | 466 | 430 | 10 | 15 | 22 | 3 | 4 | 19 |
| *Gemella* | 5 | 9 | 5 | 2 | 21 | 4 | 0 | 38 | 64 | 0 | 0 | 1 |
| *Veillonella* | 3 | 42 | 14 | 0 | 8 | 7 | 9 | 11 | 109 | 3 | 0 | 15 |
| *Actinomyces* | 1 | 8 | 1 | 0 | 1 | 0 | 3 | 1 | 17 | 0 | 0 | 2 |
| *Granulicatella* | 0 | 0 | 0 | 0 | 4 | 1 | 1 | 4 | 121 | 7 | 0 | 3 |
| *Prevotella* | 0 | 0 | 0 | 1 | 8 | 6 | 10 | 20 | 85 | 0 | 1 | 0 |
| Other | 20 | 60 | 42 | 437 | 633 | 781 | 187 | 384 | 376 | 91 | 61 | 265 |
| Total | 6167 | 5079 | 8546 | 2195 | 4899 | 4868 | 2469 | 3002 | 3276 | 1617 | 1451 | 5076 |

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| **Table S1C.** The total number of sequence reads for each of the 15 most abundant genera in milk from subjects 9 to 12 |
|  | Subject Identification and Time-point |
|  | S9 | S10 | S11 | S12 |
|  | 1 | 3 | 4 | 1 | 3 | 4 | 1 | 3 | 1 | 3 | 4 |
| *Streptococcus* | 626 | 434 | 1658 | 1066 | 663 | 1465 | 1047 | 2459 | 95 | 105 | 147 |
| *Staphylococcus* | 965 | 1792 | 1597 | 786 | 389 | 579 | 369 | 450 | 108 | 109 | 237 |
| *Serratia* | 368 | 151 | 96 | 297 | 219 | 166 | 284 | 143 | 348 | 296 | 578 |
| *Corynebacterium* | 74 | 521 | 647 | 16 | 24 | 40 | 28 | 23 | 55 | 25 | 57 |
| *Pseudomonas* | 258 | 66 | 43 | 167 | 191 | 93 | 320 | 139 | 204 | 170 | 232 |
| *Ralstonia* | 214 | 41 | 34 | 117 | 425 | 214 | 36 | 22 | 18 | 105 | 284 |
| *Propionibacterium* | 192 | 80 | 66 | 167 | 445 | 172 | 186 | 98 | 168 | 147 | 280 |
| *Sphingomonas* | 69 | 28 | 13 | 62 | 78 | 53 | 282 | 134 | 36 | 5 | 38 |
| *Rothia* | 104 | 95 | 454 | 90 | 99 | 95 | 115 | 217 | 5 | 22 | 20 |
| *Bradyrhizobium* | 10 | 7 | 5 | 35 | 90 | 13 | 221 | 86 | 15 | 28 | 21 |
| *Gemella* | 14 | 17 | 34 | 44 | 34 | 26 | 139 | 47 | 9 | 0 | 3 |
| *Veillonella* | 43 | 151 | 114 | 61 | 59 | 73 | 80 | 42 | 4 | 4 | 25 |
| *Actinomyces* | 9 | 5 | 4 | 12 | 19 | 10 | 88 | 43 | 5 | 9 | 13 |
| *Granulicatella* | 1 | 0 | 12 | 38 | 20 | 22 | 48 | 6 | 0 | 5 | 15 |
| *Prevotella* | 7 | 38 | 8 | 0 | 1 | 1 | 40 | 5 | 19 | 0 | 4 |
| Other | 448 | 227 | 118 | 338 | 521 | 261 | 1082 | 552 | 595 | 1577 | 396 |
| Total | 3402 | 3653 | 4903 | 3296 | 3277 | 3283 | 4365 | 4466 | 1684 | 2607 | 2350 |

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| **Table S1D.** The total number of sequence reads for each of the 15 most abundant genera in milk from subjects 13 to 16 |
|  | Subject Identification and Time-point |
|  | S13 | S14 | S15 | S16 |
|  | 1 | 3 | 4 | 1 | 3 | 4 | 1 | 3 | 4 | 1 | 3 | 4 |
| *Streptococcus* | 4478 | 363 | 399 | 1820 | 979 | 1408 | 1864 | 1126 | 2226 | 120 | 45 | 73 |
| *Staphylococcus* | 76 | 1638 | 273 | 24 | 85 | 95 | 534 | 1727 | 1138 | 495 | 3687 | 435 |
| *Serratia* | 23 | 129 | 25 | 152 | 245 | 650 | 61 | 191 | 45 | 238 | 176 | 433 |
| *Corynebacterium* | 7 | 47 | 49 | 14 | 9 | 17 | 107 | 67 | 75 | 1714 | 330 | 312 |
| *Pseudomonas* | 22 | 209 | 24 | 102 | 102 | 347 | 41 | 130 | 37 | 132 | 133 | 302 |
| *Ralstonia* | 9 | 14 | 26 | 202 | 14 | 477 | 18 | 54 | 16 | 100 | 16 | 333 |
| *Propionibacterium* | 5 | 102 | 22 | 23 | 50 | 173 | 53 | 69 | 31 | 48 | 10 | 71 |
| *Sphingomonas* | 14 | 138 | 34 | 65 | 73 | 215 | 6 | 65 | 18 | 95 | 58 | 91 |
| *Rothia* | 0 | 22 | 19 | 277 | 59 | 189 | 473 | 50 | 298 | 0 | 1 | 11 |
| *Bradyrhizobium* | 14 | 130 | 35 | 44 | 71 | 225 | 6 | 29 | 2 | 64 | 63 | 98 |
| *Gemella* | 0 | 1 | 2 | 268 | 78 | 185 | 113 | 101 | 441 | 0 | 0 | 0 |
| *Veillonella* | 2 | 42 | 27 | 146 | 60 | 54 | 379 | 183 | 431 | 8 | 0 | 0 |
| *Actinomyces* | 0 | 0 | 4 | 81 | 8 | 32 | 765 | 47 | 118 | 1 | 1 | 0 |
| *Granulicatella* | 0 | 0 | 4 | 92 | 114 | 159 | 83 | 29 | 208 | 0 | 0 | 0 |
| *Prevotella* | 1 | 38 | 31 | 21 | 63 | 91 | 209 | 32 | 118 | 4 | 1 | 1 |
| Other | 29 | 438 | 131 | 203 | 244 | 667 | 796 | 227 | 615 | 202 | 111 | 2635 |
| Total | 4680 | 3311 | 1105 | 3534 | 2254 | 4984 | 5508 | 4127 | 5817 | 3221 | 4632 | 4795 |