**Supplementary Table 4.** Correlation of specific bacterial taxa between vaginal and cutaneous penile specimens of couples at baseline, day 8 and day 28

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| --- | --- | --- | --- |
| **Day**  | **Bacterial taxona** | **Rhoa** | **q valueb** |
| *Baseline (Day 0)c* | *Atopobium* | 0.470 | 0.20 |
| *Peptostreptococcus* | 0.459 | 0.20 |
| *Veillonella* | 0.398 | 0.30 |
| *Parvimonas* | 0.345 | 0.41 |
| *Gardnerella* | 0.332 | 0.41 |
| *Lactobacillus iners* | 0.325 | 0.41 |
| *Finegoldia* | 0.283 | 0.50 |
| *Gemella* | 0.273 | 0.50 |
| *Fastidiosipila* | 0.212 | 0.61 |
| *Sutterella* | 0.178 | 0.68 |
| *Megasphaera* | 0.184 | 0.68 |
| *Anaerococcus* | 0.123 | 0.80 |
| *Aerococcus* | 0.073 | 0.90 |
| *Sneathia* | 0.046 | 1.00 |
| *Enterorhabdus* | 0.015 | 1.00 |
| *Prevotella* | -0.002 | 1.00 |
| *Peptoniphilus* | -0.026 | 1.00 |
| *Porphyromonas* | -0.097 | 0.84 |
| *Dialister* | -0.143 | 0.75 |
| *Day 8d* | *Gardnerella* | 0.336 | 0.48 |
| *Dialister* | 0.273 | 0.56 |
| *Ureaplasma* | 0.193 | 0.68 |
| *Lactobacillus iners* | 0.118 | 0.84 |
| *Day 28e* | *Dialister* | 0.720 | 0.05 |
| *Prevotella* | 0.707 | 0.05 |
| *Peptoniphilus* | 0.558 | 0.20 |
| *Anaerococcus* | 0.545 | 0.20 |
| *Corynebacterium* | 0.541 | 0.20 |
| *Streptococcus* | 0.498 | 0.24 |
| *Aerococcus* | 0.442 | 0.33 |
| *Gardnerella* | 0.275 | 0.56 |
| *Lactobacillus iners* | 0.273 | 0.56 |
| *Finegoldia* | 0.029 | 0.98 |

a Spearman Correlation Coefficient: rho 0-0.19 “very weak”; 0.2-0.39 “weak”; 0.4-0.59 “moderate”; 0.6-0.79 “strong”; 0.8-1 “very strong”

b *P*-value false discovery rate adjustment for multiple comparisons was performed using the Benjamini-Hochberg procedure; a *q*-value <0.05 was deemed significant

c Only those bacteria present in 30% or more of vaginal samples collected at baseline were included in the correlation analysis. Analysis included a total of 20 paired specimens (i.e. data included from 20 couples is in this analysis).

d Only those bacteria present in 30% or more of vaginal samples collected at day 8 were included in the correlation analysis. Analysis included a total of 16 paired specimens (i.e. data included from 16 couples in this analysis)

e Only those bacteria present in 30% or more of vaginal samples collected at day 28 were included in the correlation analysis. Analysis included a total of 15 paired specimens (i.e. data included from 15 couples in this analysis)