**Appendix**

**Low-protein diet in Phenylketonuria patients is associated with worse dental health and oral microbial shifts**

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**Supplementary Methods**

**Patient and control recruitment.** 109 PKU patients and 114 metabolically healthy control subjects were recruited between September 2018 and July 2020 as described in (Bingöl C). Inclusion criteria for patients were patients with phenylketonuria (1) who were on a phenyalanine-reduced diet from postpartum day 3, (2) who were currently or previously taking a phenylalanine-free amino acid supplement, and (3) who were at least 6 years of age (early mixed dentition). The PKU patients came from nine specialized outpatient clinics for metabolic diseases in Germany and were recruited during routine control visits or leisure events for PKU patients. The healthy subjects were recruited at the Charité - Universitätsmedizin Berlin (Charité Center for Oral Health Sciences CC 03), Germany, and a private dental practice (Berlin, Germany). Written informed consent was given in accordance with the Declaration of Helsinki for research involving human subjects. The present study was approved by the medical ethical committees of the Charité - Universitätsmedizin Berlin (EA2/036/18) and the University of Leipzig (369/18-Ik), registered in the German Clinical Trials Register and International Clinical Trials Registry Platform (DRKS00027482).

**Sample collection and processing.** Saliva secretion was stimulated by chewing paraffin pellets (Ivoclar Vivadent, Schaan, Liechtenstein) and collected in a commercial, factory-sterile plastic cup. SP was sampled from the mesio-buccal and disto-buccal sites of the first molar of a randomized quadrant using sterile paper tips (Roeko ISO 30 Coltene, Altstätten, Switzerland). Centrifuged saliva cell pellets and plaque samples were transferred into the RNA/DNA Shield Medium (R1103 ZymoResearch) and stored at -80°C until DNA extraction, for which the QIAamp UCP Pathogen Mini Kit (Qiagen, Hilden, Germany) was used.

**16S rDNA sequencing processing and analysis.** 16S rDNA sequencing was performed as described in (Trautmann et al., 2020). Briefly, variable regions V1 and V2 of the 16S rRNA gene within the DNA samples were amplified using the primer pair 27F-338R in a dual-barcoding approach according to (Caporaso et al., 2012) and sequenced on the Illumina MiSeq v3 2x300bp (Illumina Inc., San Diego, CA, USA). Demultiplexing after sequencing was based on 0 mismatches in the barcode sequences. Sequence processing, quality control and analysis was performed in R (https://www.R-project.org/; Version 4.2.0). 16S rRNA gene sequences were processed by the QIIME2 pipeline (Bolyen et al., 2019). After quality filtering (default parameters), reads were cleaned and binned using the DADA2 QIIME2-plugin (Callahan et al., 2016). Samples with less than 6,147 reads were excluded from the analysis. From the DADA2 pipeline, 38,332 ± 32,185 (mean ± SD) high-quality reads per sample were obtained for the next step of taxonomic assignment and clustered into Amplicon Sequence Variants (ASVs). In order to cluster the sequences, a Naive Bayes Classifier was trained by using the feature-classifier QIIME2 plugin. Briefly, 16S rDNA sequences and taxonomy from SILVA 138.1 NR99 release were imported into the QIIME2 environment using the RESCRIPt QIIME2 plugin (Robeson et al., 2021). Sequences and taxonomy .qza files were used to train the SILVA Naive Bayes Classifier using the classify-sklearn command of the feature-classifier QIIME2 plugin. SILVA Naive Bayes Classifier was then used to cluster the samples’ representative-sequence .qza file into ASVs. The ASV table was then normalized by rarefaction at 6.147 depth so that every sample reached the plateau at the end of the rarefaction curve. The output obtained from the ASV taxonomy assignment as a taxonomy table was then used to collapse the normalized ASVs feature table into the taxonomy levels L2 (Phylum), L5 (Family) and L6 (Genus). Alpha diversity was evaluated by using the metrics Observed ASVs (or Richness), Faith’s Phylogenetic Diversity (Faith’s PD), Shannon index and Pielou’s evenness (or Evenness). To compare the overall compositional differences between samples by Principal Coordinates Analysis (PCoA), the phylogenetic metrics Weighted and Unweighted UniFrac as well as the taxonomic metrics Jaccard similarity and Bray-Curtis dissimilarity were used for beta diversity. Both alpha and beta diversity indexes were calculated using the „vegan“ R package (http://www.cran.r-project.org/package=vegan/, version 2.6-2). Separation in terms of beta diversity between groups was tested by Permutational Multivariate Analysis of Variance Using Distance Matrices (PERMANOVA, function “Adonis” in “vegan”), while differences for intra-groups dispersion were tested by Multivariate homogeneity of groups dispersions test (function “betadisper” in “vegan”). Taxa that were not present in at least 4 samples were excluded from the analysis. Differences in terms of taxa relative abundances were first evaluated with a preliminary Kruskal-Wallis test between PKU and Control patients from different origin (Saliva and Subgingival Plaque), for a total of 4 groups: PKU/Saliva vs Control/Saliva vs PKU/Subgingival Plaque vs Control/Subgingival Plaque. Taxa of interest were then analyzed between groups by Wilcoxon test, and when necessary, p-values of multiple comparisons were adjusted by Benjamini–Hochberg method, with a false discovery rate (FDR) ≤ 0.05 considered as statistically significant. Results were controlled for a full set of clinical parameters and only reported if not reducible to any of those covariates, using the tool metadeconfoundR (https://github.com/TillBirkner/metadeconfoundR; version 0.2.8).

**Supplemental References**

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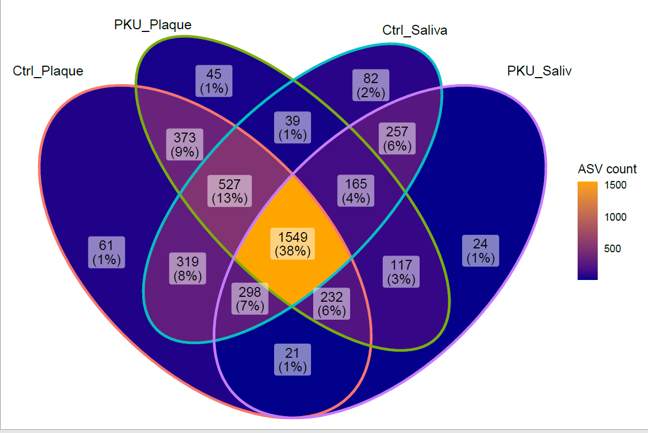
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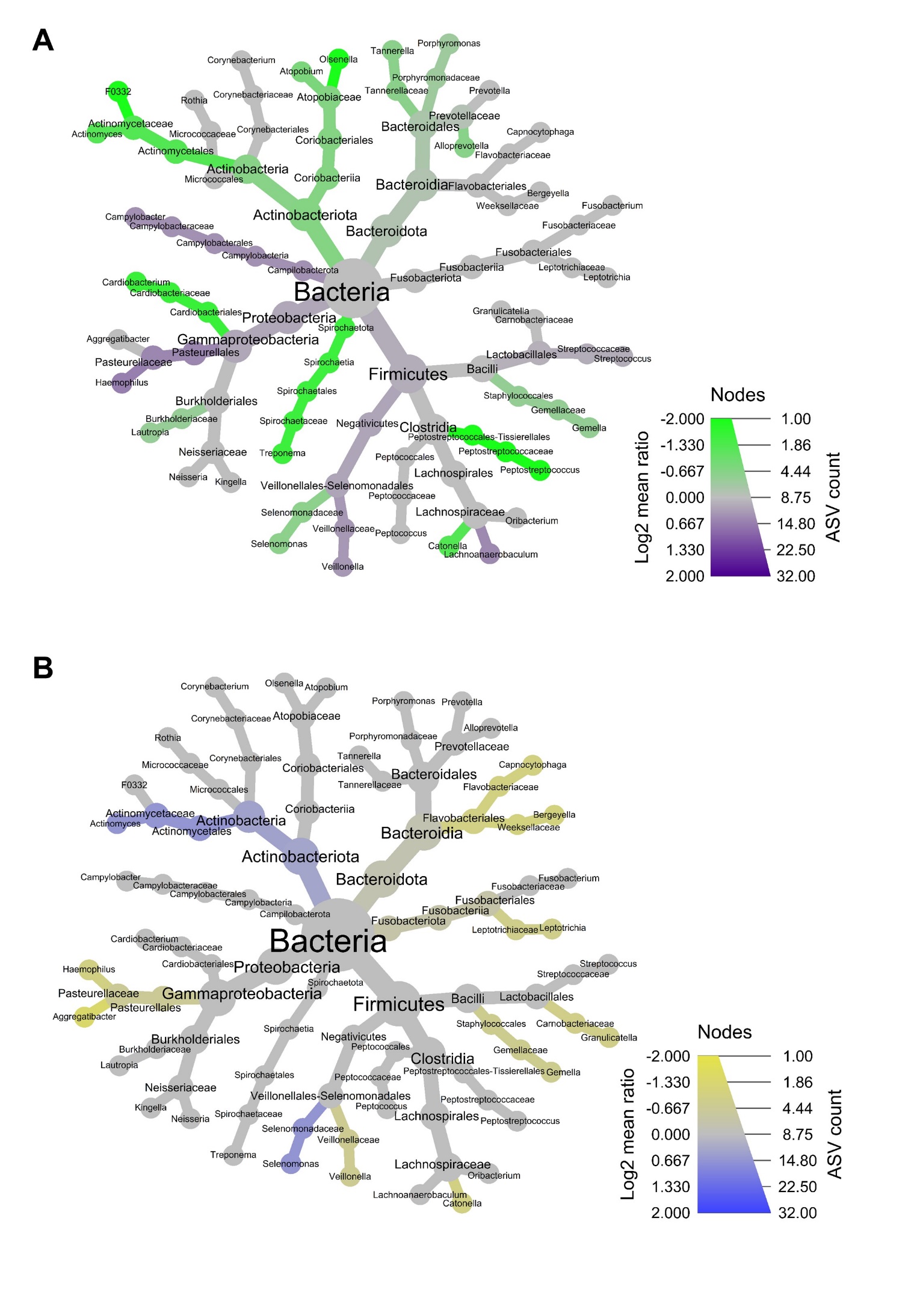
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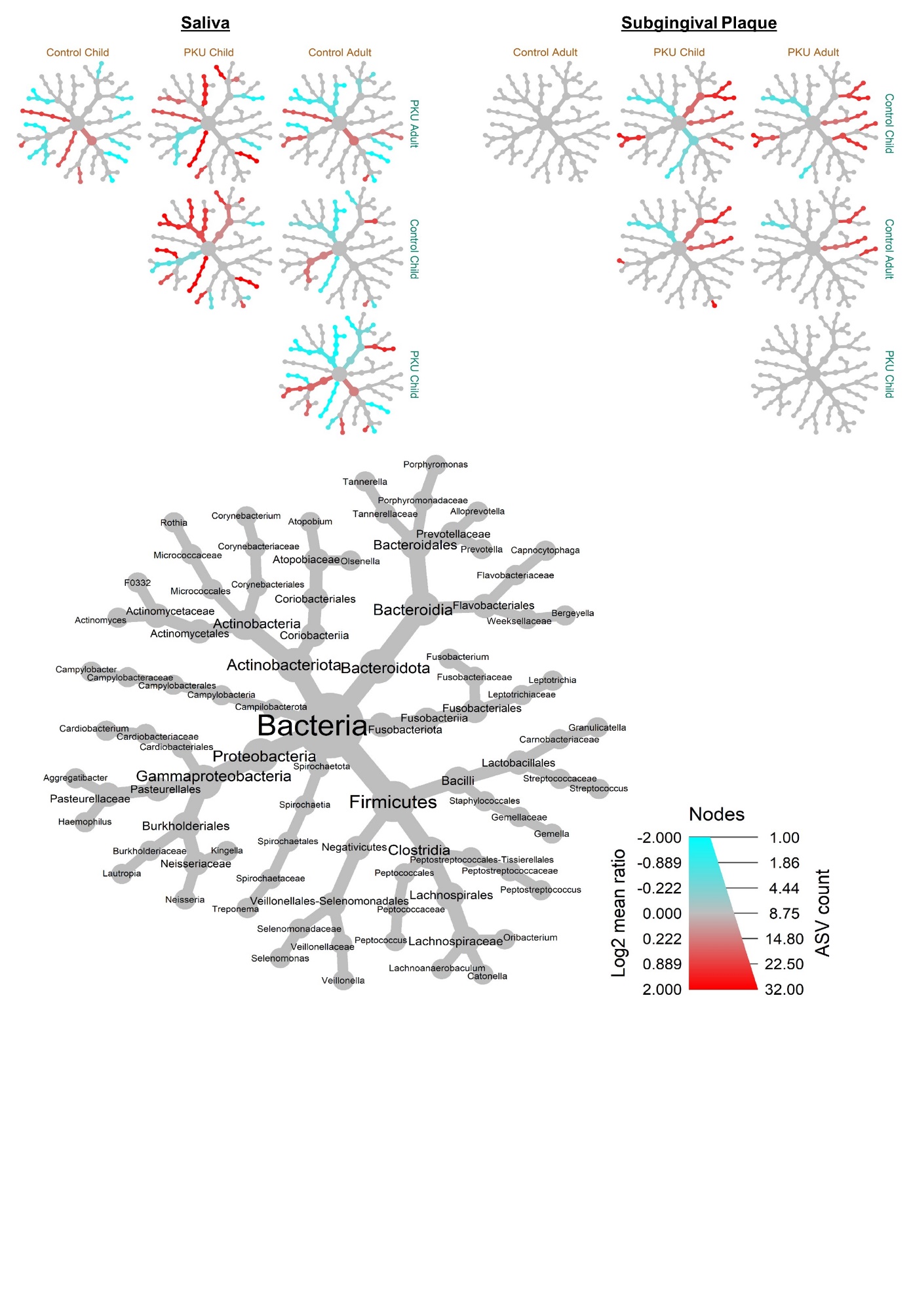


**Appendix Figure 1. Venn diagram of amplicon sequence variants (ASVs)**

**Appendix Figure 2. Heat trees of abundant differences of genera in PKU patients compared to controls. A. Saliva. B. Subgingival Plaque**

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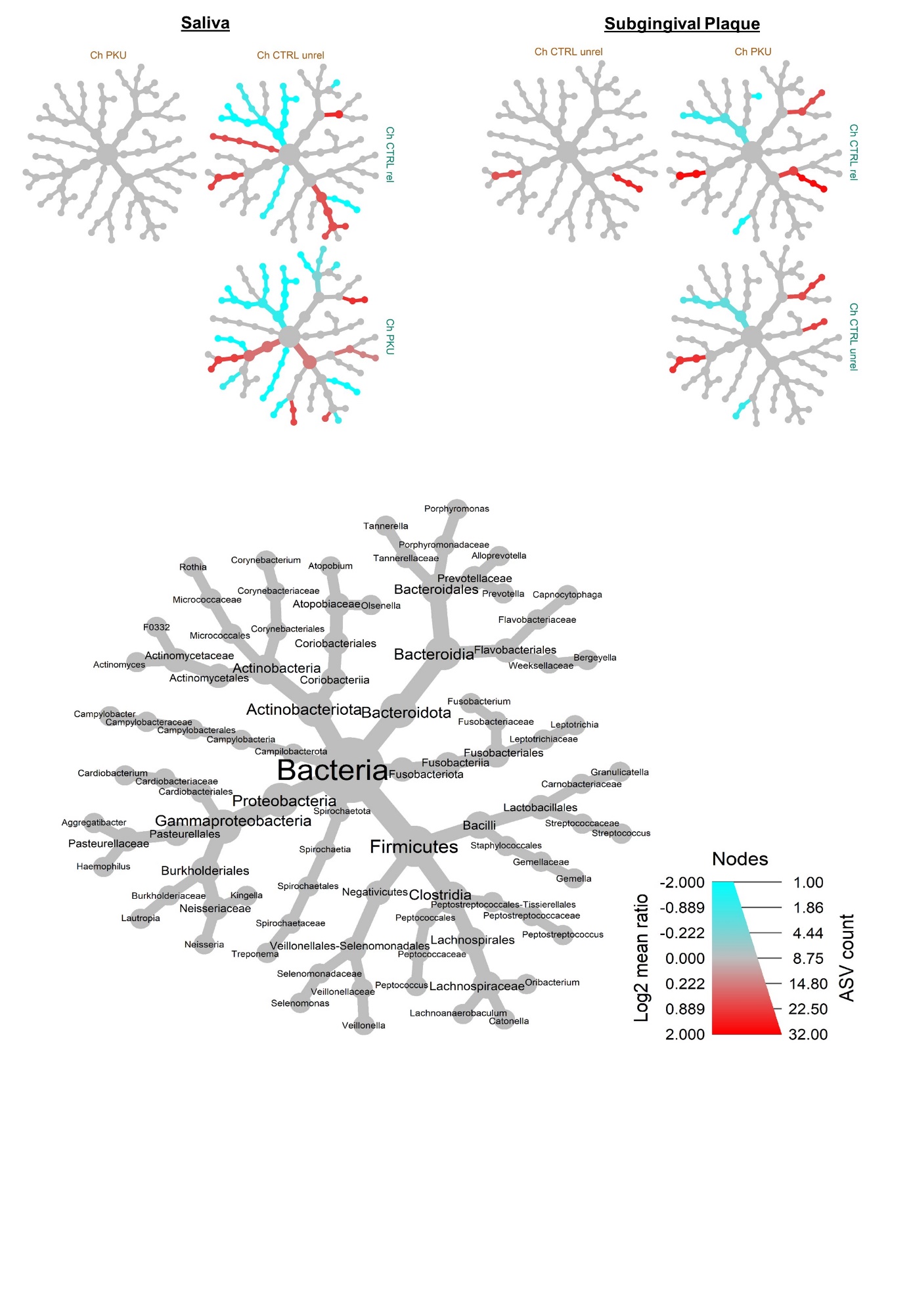
**Appendix Figure 3. Genus abundances stratified by age. A. Saliva (S). B. Subgingival Plaque (SP).**



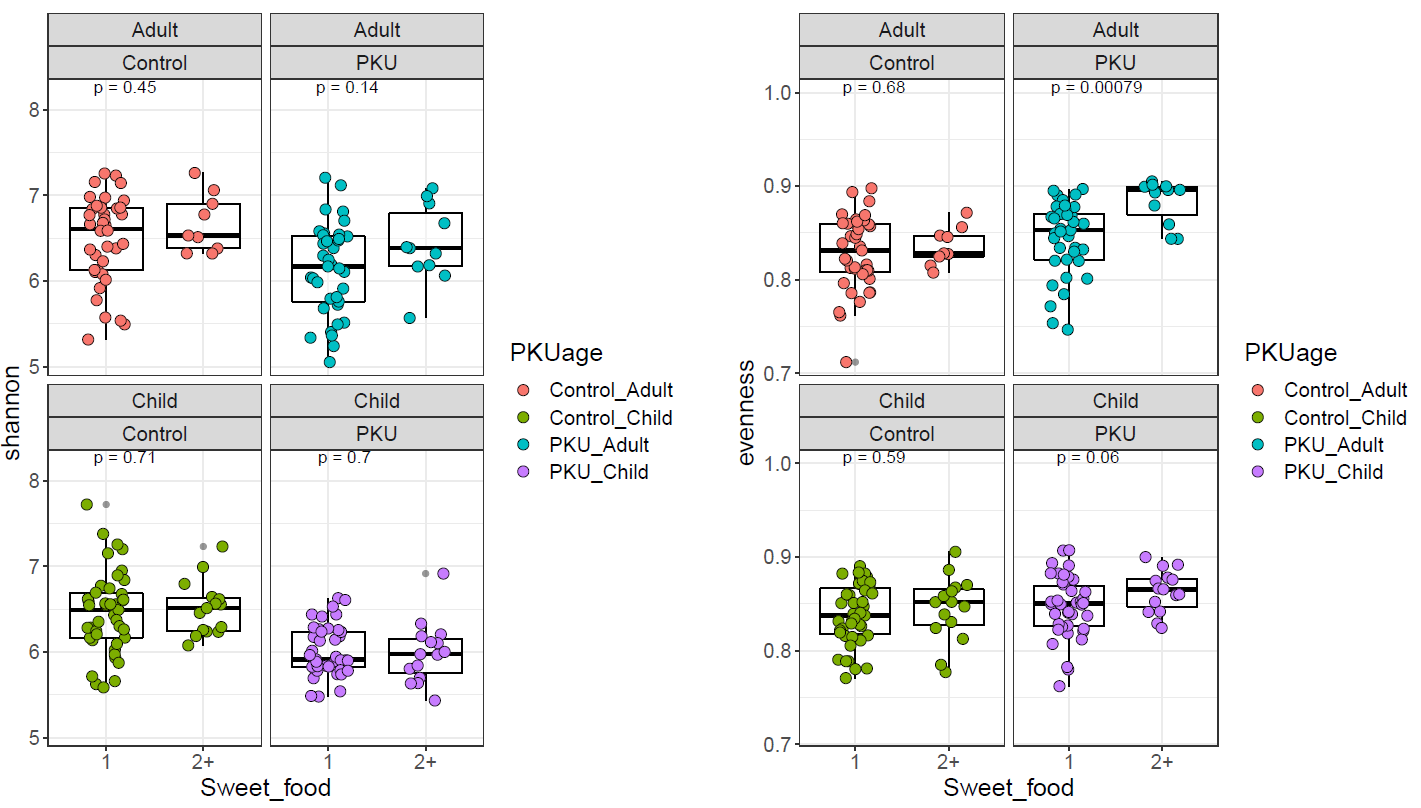
**Appendix Figure 4. Heat trees of differences in abundances stratified by age.**

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**Appendix Figure 5. Genus abundances in children stratified by PKU family membership.** A. Saliva. B. Subgingival Plaque. Ch PKU = PKU children; Ch CTRL unrel = unrelated control children; Ch CTRL rel = healthy siblings of PKU patients.



**Appendix Figure 6. Heat trees of abundance differences in children stratified by PKU family status.** Ch PKU = PKU children; Ch CTRL unrel = unrelated control children; Ch CTRL rel = healthy siblings of PKU patients.

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**Appendix Figure 7. Decreased alpha diversity in saliva of PKU patients with sweet food intake stratified by age group**

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**Appendix Figure 8. Faith’s PD in saliva of PKU patients compared to controls, stratified by periodontitis affection status.**

**Appendix Table 1. Family structure of patients and controls**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Controls without relatives (n) | Controls with control relatives only (n) | Control relatives of PKU patients (n) | PKU patients without relatives (n) | PKU patients with PKU relatives only (n) | PKU patients with control relatives (n) |
| Adult | 35 | 13 | 3 | 44 | 3 | 4 |
| Children | 24 | 26 | 12 | 34 | 13 | 12 |

**Appendix Table 2. Alpha Diversity in saliva and subgingival plaque of PKU patients and controls**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | **ASV, mean (SD)** | **Faith’s PD, mean (SD)** | **Shannon, mean (SD)** | **Evenness, mean (SD)** |
| **Saliva** | | | | | |
| PKU | All | 148.1 (46.2) | 16.6 (3.0) | 6.1 (0.4) | 0.85 (0.03) |
| Adults | 163.0 (59.6) | 18.0 (3.5) | 6.2 (0.5) | 0.85 (0.04) |
| Children | 135.6 (25.1) | 15.5 (1.9) | 6.0 (0.3) | 0.85 (0.03) |
| Controls | All | 228.0 (64.8) | 19.9 (3.6) | 6.5 (0.5) | 0.84 (0.03) |
| Adults | 239.6 (64.3) | 20.9 (3.5) | 6.5 (0.5) | 0.83 (0.04) |
| Children | 218.1 (64.1) | 19.0 (3.4) | 6.5 (0.4) | 0.84 (0.03) |
| **Subgingival Plaque** | | | | | |
| PKU | All | 206.3 (52.7) | 19.6 (3.5) | 6.3 (0.6) | 0.82 (0.04) |
| Adults | 212.1 (50.2) | 19.8 (3.4) | 6.4 (0.5) | 0.83 (0.03) |
| Children | 201.2 (54.8) | 19.4 (3.5) | 6.2 (0.6) | 0.82 (0.05) |
| Controls | All | 225.5 (51.9) | 20.4 (3.7) | 6.6 (0.5) | 0.84 (0.04) |
| Adults | 233.4 (44.3) | 21.3 (3.2) | 6.6 (0.5) | 0.84 (0.04) |
| Children | 218.9 (57.0) | 19.7 (4.0) | 6.5 (0.5) | 0.85 (0.04) |

**Appendix Table 3. Differences in microbial diversity between PKU patients and controls**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Saliva** | | | | | **Subgingival Plaque** | | | **Saliva vs**  **Subgingival Plaque** | |
| Controls vs PKU | Adults vs. children | | Family Effect in children | | Controls vs PKU | Adults vs. children | |
| Controls | PKU | PKU-related controls vs unrelated controls | PKU-related controls vs PKU | Controls | PKU | Controls | PKU |
| **p-values Alpha Diversity** | | | | | | | | | | |
| **Observed ASVs** | <2 x 10-16 | 0.07 | 0.04 | 4.4 x 10-6 | 0.85 | 6.9 x 10-3 | 0.2 | 0.31 | 0.99 | 1.3 x 10-15 |
| **Faith’s**  **PD** | 1.8 x 10-12 | 0.0017 | 6.4 x 10-5 | 4.4 x 10-8 | 0.93 | 0.1 | 0.016 | 0.67 | 0.23 | 1.0 x 10-9 |
| **Shannon Index** | 9.8 x 10-10 | 0.24 | 0.019 | 1.2 x 10-3 | 0.34 | 5.9 x 10-3 | 0.83 | 0.32 | 0.18 | 2.7 x 10-3 |
| **Pielou‘s Evenness** | 3.3 x 10-4 | 0.13 | 0.37 | 0.015 | 0.25 | 3.3 x 10-4 | 0.33 | 0.39 | 0.063 | 6.1 x 10-7 |
| **p values Beta Diversity** | | | | | | | | | | |
| **Weighted UniFrac** | 0.001 | 0.133 | 0.003 | 0.05 | 0.61 | 0.003 | 0.35 | 0.39 | 0.001 | 0.001 |
| **Unweighted UniFrac** | 0.001 | 0.001 | 0.001 | 0.001 | 0.86 | 0.96 | 0.11 | 0.50 | 0.001 | 0.001 |
| **Jaccard similarity** | 0.001 | 0.001 | 0.001 | 0.045 | 0.44 | 0.028 | 0.091 | 0.78 | 0.001 | 0.001 |
| **Bray Curtis dissimilarity** | 0.001 | 0.004 | 0.001 | 0.281 | 0.32 | 0.26 | 0.21 | 0.61 | 0.001 | 0.001 |

**Appendix Table 4. Differences in phylum abundances between PKU patients and controls\_revised**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Rel abundance Ctrl Saliva | Rel abundance PKU saliva | Saliva q | Saliva log2mean | Rel abundance Ctrl SP | Rel abundance PKU SP | q SP | SP log2mean |
| Proteobacteria | 25.8 | 29.1 | 0.16 | 0.17 | 20.1 | 18.7 | 1.00 | -0.1 |
| Bacteroidota | 25.5 | 22.9 | 0.08 | -0.15 | 19.8 | 17.3 | 0.03 | -0.2 |
| Firmicutes | 24.9 | 27.5 | 0.08 | 0.14 | 17.1 | 17.6 | 1.00 | 0.04 |
| Actinobacteriota | 13.4 | 9.4 | 0.00 | -0.51 | 16.6 | 21.9 | 0.00 | 0.4 |
| Fusobacteriota | 6.9 | 7.2 | 1.00 | 0.05 | 15.2 | 12.3 | 0.00 | -0.31 |
| Campilobacterota | 1.1 | 1.7 | 0.01 | 0.53 | 3.2 | 3.1 | 1.00 | -0.04 |
| Patescibacteria | 0.8 | 1.0 | 0.02 | 0.38 | 1.7 | 1.2 | 0.16 | -0.48 |
| Other\_Phyla | 0.8 | 0.4 | 0.01 | -0.8 | 1.5 | 2.9 | 1.00 | 1 |
| Spirochaetota | 0.7 | 0.7 | 0.03 | 0.03 | 4.9 | 5.0 | 1.00 | 0.02 |

Appendix Table 5. Differences in genus abundances between PKU patients and controls\_revised

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| taxa | comp | Log2mean ratio | qval | Alpha | Shape |
| Actinomyces | PKU\_vs\_Ctrl\_S | -0.89 | 0.00 | Significant | 25 |
| F0332 | PKU\_vs\_Ctrl\_S | -1.81 | 0.00 | Significant | 25 |
| Peptostreptococcus | PKU\_vs\_Ctrl\_S | -1.06 | 0.00 | Significant | 25 |
| Peptococcus | PKU\_vs\_Ctrl\_S | -2 | 0.00 | Significant | 25 |
| Haemophilus | PKU\_vs\_Ctrl\_S | 0.51 | 0.00 | Significant | 24 |
| Stomatobaculum | PKU\_vs\_Ctrl\_S | -1.2 | 0.00 | Significant | 25 |
| Catonella | PKU\_vs\_Ctrl\_S | -0.63 | 0.00 | Significant | 25 |
| Olsenella | PKU\_vs\_Ctrl\_S | -1.19 | 0.00 | Significant | 25 |
| Alloprevotella | PKU\_vs\_Ctrl\_S | -0.59 | 0.00 | Significant | 25 |
| Pseudopropionibacterium | PKU\_vs\_Ctrl\_S | -0.88 | 0.00 | Significant | 25 |
| Cardiobacterium | PKU\_vs\_Ctrl\_S | -0.61 | 0.00 | Significant | 25 |
| Veillonella | PKU\_vs\_Ctrl\_S | 0.32 | 0.04 | Significant | 24 |
| Campylobacter | PKU\_vs\_Ctrl\_S | 0.54 | 0.05 | Significant | 24 |
| Lautropia | PKU\_vs\_Ctrl\_S | -0.68 | 0.09 | Non-significant | 25 |
| Fretibacterium | PKU\_vs\_Ctrl\_S | -1.45 | 0.13 | Non-significant | 25 |
| Lachnoanaerobaculum | PKU\_vs\_Ctrl\_S | 0.47 | 0.15 | Non-significant | 24 |
| Gemella | PKU\_vs\_Ctrl\_S | -0.37 | 0.18 | Non-significant | 25 |
| Streptococcus | PKU\_vs\_Ctrl\_S | 0.26 | 0.23 | Non-significant | 24 |
| Selenomonas | PKU\_vs\_Ctrl\_S | -0.27 | 0.74 | Non-significant | 25 |
| Atopobium | PKU\_vs\_Ctrl\_S | -0.36 | 0.92 | Non-significant | 25 |
| Porphyromonas | PKU\_vs\_Ctrl\_S | -0.31 | 0.95 | Non-significant | 25 |
| Tannerella | PKU\_vs\_Ctrl\_S | -0.51 | 1.00 | Non-significant | 25 |
| Leptotrichia | PKU\_vs\_Ctrl\_S | -0.16 | 1.00 | Non-significant | 25 |
| Neisseria | PKU\_vs\_Ctrl\_S | -0.03 | 1.00 | Non-significant | 25 |
| Rothia | PKU\_vs\_Ctrl\_S | -0.02 | 1.00 | Non-significant | 25 |
| Oribacterium | PKU\_vs\_Ctrl\_S | 0.38 | 1.00 | Non-significant | 24 |
| Kingella | PKU\_vs\_Ctrl\_S | 0.27 | 1.00 | Non-significant | 24 |
| Aggregatibacter | PKU\_vs\_Ctrl\_S | 0.04 | 1.00 | Non-significant | 24 |
| Corynebacterium | PKU\_vs\_Ctrl\_S | -0.07 | 1.00 | Non-significant | 25 |
| Fusobacterium | PKU\_vs\_Ctrl\_S | 0.19 | 1.00 | Non-significant | 24 |
| Capnocytophaga | PKU\_vs\_Ctrl\_S | 0.18 | 1.00 | Non-significant | 24 |
| Prevotella | PKU\_vs\_Ctrl\_S | 0.05 | 1.00 | Non-significant | 24 |
| Campylobacter | PKU\_vs\_Ctrl\_Adults\_S | 0.67 | 0.05 | Non-significant | 24 |
| Veillonella | PKU\_vs\_Ctrl\_Adults\_S | 0.33 | 1.00 | Non-significant | 24 |
| Tannerella | PKU\_vs\_Ctrl\_Adults\_S | -0.18 | 1.00 | Non-significant | 25 |
| Streptococcus | PKU\_vs\_Ctrl\_Adults\_S | 0.36 | 0.39 | Non-significant | 24 |
| Stomatobaculum | PKU\_vs\_Ctrl\_Adults\_S | -1.35 | 0.00 | Significant | 25 |
| Peptostreptococcus | PKU\_vs\_Ctrl\_Adults\_S | -1.23 | 0.05 | Non-significant | 25 |
| Peptococcus | PKU\_vs\_Ctrl\_Adults\_S | -1.87 | 0.04 | Significant | 25 |
| Olsenella | PKU\_vs\_Ctrl\_Adults\_S | -0.87 | 0.29 | Non-significant | 25 |
| Leptotrichia | PKU\_vs\_Ctrl\_Adults\_S | -0.1 | 1.00 | Non-significant | 25 |
| Lautropia | PKU\_vs\_Ctrl\_Adults\_S | -0.66 | 1.00 | Non-significant | 25 |
| Haemophilus | PKU\_vs\_Ctrl\_Adults\_S | 0.42 | 0.63 | Non-significant | 24 |
| Gemella | PKU\_vs\_Ctrl\_Adults\_S | -0.45 | 0.16 | Non-significant | 25 |
| Catonella | PKU\_vs\_Ctrl\_Adults\_S | -0.59 | 0.00 | Significant | 25 |
| Cardiobacterium | PKU\_vs\_Ctrl\_Adults\_S | -0.24 | 0.57 | Non-significant | 25 |
| Atopobium | PKU\_vs\_Ctrl\_Adults\_S | -0.26 | 1.00 | Non-significant | 25 |
| Alloprevotella | PKU\_vs\_Ctrl\_Adults\_S | -0.55 | 0.22 | Non-significant | 25 |
| Actinomyces | PKU\_vs\_Ctrl\_Adults\_S | -0.8 | 0.00 | Significant | 25 |
| Selenomonas | PKU\_vs\_Ctrl\_Adults\_S | 0.02 | 1.00 | Non-significant | 24 |
| Lachnoanaerobaculum | PKU\_vs\_Ctrl\_Adults\_S | 0.44 | 1.00 | Non-significant | 24 |
| Neisseria | PKU\_vs\_Ctrl\_Adults\_S | -0.15 | 1.00 | Non-significant | 25 |
| F0332 | PKU\_vs\_Ctrl\_Adults\_S | -1.15 | 0.69 | Non-significant | 25 |
| Rothia | PKU\_vs\_Ctrl\_Adults\_S | -0.09 | 1.00 | Non-significant | 25 |
| Pseudopropionibacterium | PKU\_vs\_Ctrl\_Adults\_S | -0.79 | 1.00 | Non-significant | 25 |
| Porphyromonas | PKU\_vs\_Ctrl\_Adults\_S | -0.33 | 1.00 | Non-significant | 25 |
| Oribacterium | PKU\_vs\_Ctrl\_Adults\_S | 0.16 | 1.00 | Non-significant | 24 |
| Kingella | PKU\_vs\_Ctrl\_Adults\_S | 0.64 | 1.00 | Non-significant | 24 |
| Fretibacterium | PKU\_vs\_Ctrl\_Adults\_S | -1.1 | 1.00 | Non-significant | 25 |
| Aggregatibacter | PKU\_vs\_Ctrl\_Adults\_S | 0.14 | 1.00 | Non-significant | 24 |
| Corynebacterium | PKU\_vs\_Ctrl\_Adults\_S | 0.49 | 1.00 | Non-significant | 24 |
| Fusobacterium | PKU\_vs\_Ctrl\_Adults\_S | 0.14 | 1.00 | Non-significant | 24 |
| Capnocytophaga | PKU\_vs\_Ctrl\_Adults\_S | 0.86 | 1.00 | Non-significant | 24 |
| Prevotella | PKU\_vs\_Ctrl\_Adults\_S | 0.08 | 1.00 | Non-significant | 24 |
| Campylobacter | PKU\_vs\_Ctrl\_Ch\_S | 0.41 | 1.00 | Non-significant | 24 |
| Veillonella | PKU\_vs\_Ctrl\_Ch\_S | 0.32 | 0.30 | Non-significant | 24 |
| Tannerella | PKU\_vs\_Ctrl\_Ch\_S | -1.15 | 0.28 | Non-significant | 25 |
| Streptococcus | PKU\_vs\_Ctrl\_Ch\_S | 0.18 | 1.00 | Non-significant | 24 |
| Stomatobaculum | PKU\_vs\_Ctrl\_Ch\_S | -0.97 | 0.41 | Non-significant | 25 |
| Peptostreptococcus | PKU\_vs\_Ctrl\_Ch\_S | -0.87 | 0.00 | Significant | 25 |
| Peptococcus | PKU\_vs\_Ctrl\_Ch\_S | -2 | 0.01 | Significant | 25 |
| Olsenella | PKU\_vs\_Ctrl\_Ch\_S | -2 | 0.00 | Significant | 25 |
| Leptotrichia | PKU\_vs\_Ctrl\_Ch\_S | -0.2 | 1.00 | Non-significant | 25 |
| Lautropia | PKU\_vs\_Ctrl\_Ch\_S | -0.69 | 0.27 | Non-significant | 25 |
| Haemophilus | PKU\_vs\_Ctrl\_Ch\_S | 0.58 | 0.00 | Significant | 24 |
| Gemella | PKU\_vs\_Ctrl\_Ch\_S | -0.32 | 1.00 | Non-significant | 25 |
| Catonella | PKU\_vs\_Ctrl\_Ch\_S | -0.67 | 0.33 | Non-significant | 25 |
| Cardiobacterium | PKU\_vs\_Ctrl\_Ch\_S | -0.97 | 0.06 | Non-significant | 25 |
| Atopobium | PKU\_vs\_Ctrl\_Ch\_S | -0.5 | 1.00 | Non-significant | 25 |
| Alloprevotella | PKU\_vs\_Ctrl\_Ch\_S | -0.62 | 0.08 | Non-significant | 25 |
| Actinomyces | PKU\_vs\_Ctrl\_Ch\_S | -0.98 | 0.00 | Significant | 25 |
| Selenomonas | PKU\_vs\_Ctrl\_Ch\_S | -0.56 | 0.03 | Significant | 25 |
| Lachnoanaerobaculum | PKU\_vs\_Ctrl\_Ch\_S | 0.48 | 1.00 | Non-significant | 24 |
| Neisseria | PKU\_vs\_Ctrl\_Ch\_S | 0.04 | 1.00 | Non-significant | 24 |
| F0332 | PKU\_vs\_Ctrl\_Ch\_S | -2 | 0.00 | Significant | 25 |
| Rothia | PKU\_vs\_Ctrl\_Ch\_S | 0.04 | 1.00 | Non-significant | 24 |
| Pseudopropionibacterium | PKU\_vs\_Ctrl\_Ch\_S | -0.94 | 0.02 | Significant | 25 |
| Porphyromonas | PKU\_vs\_Ctrl\_Ch\_S | -0.29 | 1.00 | Non-significant | 25 |
| Oribacterium | PKU\_vs\_Ctrl\_Ch\_S | 0.57 | 0.50 | Non-significant | 24 |
| Kingella | PKU\_vs\_Ctrl\_Ch\_S | -0.03 | 1.00 | Non-significant | 25 |
| Fretibacterium | PKU\_vs\_Ctrl\_Ch\_S | -2 | 0.49 | Non-significant | 25 |
| Aggregatibacter | PKU\_vs\_Ctrl\_Ch\_S | -0.03 | 1.00 | Non-significant | 25 |
| Corynebacterium | PKU\_vs\_Ctrl\_Ch\_S | -0.53 | 0.17 | Non-significant | 25 |
| Fusobacterium | PKU\_vs\_Ctrl\_Ch\_S | 0.23 | 1.00 | Non-significant | 24 |
| Capnocytophaga | PKU\_vs\_Ctrl\_Ch\_S | -0.27 | 1.00 | Non-significant | 25 |
| Prevotella | PKU\_vs\_Ctrl\_Ch\_S | 0.02 | 1.00 | Non-significant | 24 |
| Campylobacter | ChCtrlRel\_vs\_ChCtrlUnrel\_S | 0.27 | 1.00 | Non-significant | 24 |
| Veillonella | ChCtrlRel\_vs\_ChCtrlUnrel\_S | 0.34 | 1.00 | Non-significant | 24 |
| Tannerella | ChCtrlRel\_vs\_ChCtrlUnrel\_S | -0.77 | 1.00 | Non-significant | 25 |
| Streptococcus | ChCtrlRel\_vs\_ChCtrlUnrel\_S | 0.29 | 1.00 | Non-significant | 24 |
| Stomatobaculum | ChCtrlRel\_vs\_ChCtrlUnrel\_S | -0.05 | 1.00 | Non-significant | 25 |
| Peptostreptococcus | ChCtrlRel\_vs\_ChCtrlUnrel\_S | -1.17 | 1.00 | Non-significant | 25 |
| Peptococcus | ChCtrlRel\_vs\_ChCtrlUnrel\_S | 0.29 | 1.00 | Non-significant | 24 |
| Olsenella | ChCtrlRel\_vs\_ChCtrlUnrel\_S | -0.87 | 1.00 | Non-significant | 25 |
| Leptotrichia | ChCtrlRel\_vs\_ChCtrlUnrel\_S | -0.27 | 1.00 | Non-significant | 25 |
| Lautropia | ChCtrlRel\_vs\_ChCtrlUnrel\_S | -0.99 | 1.00 | Non-significant | 25 |
| Haemophilus | ChCtrlRel\_vs\_ChCtrlUnrel\_S | 0.95 | 0.15 | Non-significant | 24 |
| Gemella | ChCtrlRel\_vs\_ChCtrlUnrel\_S | -0.18 | 1.00 | Non-significant | 25 |
| Catonella | ChCtrlRel\_vs\_ChCtrlUnrel\_S | -0.53 | 1.00 | Non-significant | 25 |
| Cardiobacterium | ChCtrlRel\_vs\_ChCtrlUnrel\_S | -0.23 | 1.00 | Non-significant | 25 |
| Atopobium | ChCtrlRel\_vs\_ChCtrlUnrel\_S | -1.35 | 1.00 | Non-significant | 25 |
| Alloprevotella | ChCtrlRel\_vs\_ChCtrlUnrel\_S | -0.38 | 1.00 | Non-significant | 25 |
| Actinomyces | ChCtrlRel\_vs\_ChCtrlUnrel\_S | -0.86 | 0.00 | Significant | 25 |
| Selenomonas | ChCtrlRel\_vs\_ChCtrlUnrel\_S | -0.38 | 1.00 | Non-significant | 25 |
| Lachnoanaerobaculum | ChCtrlRel\_vs\_ChCtrlUnrel\_S | 0.82 | 1.00 | Non-significant | 24 |
| Neisseria | ChCtrlRel\_vs\_ChCtrlUnrel\_S | -0.15 | 1.00 | Non-significant | 25 |
| F0332 | ChCtrlRel\_vs\_ChCtrlUnrel\_S | -1.08 | 0.60 | Non-significant | 25 |
| Rothia | ChCtrlRel\_vs\_ChCtrlUnrel\_S | -0.21 | 1.00 | Non-significant | 25 |
| Pseudopropionibacterium | ChCtrlRel\_vs\_ChCtrlUnrel\_S | -0.82 | 0.48 | Non-significant | 25 |
| Porphyromonas | ChCtrlRel\_vs\_ChCtrlUnrel\_S | 0.32 | 1.00 | Non-significant | 24 |
| Oribacterium | ChCtrlRel\_vs\_ChCtrlUnrel\_S | 0.56 | 1.00 | Non-significant | 24 |
| Kingella | ChCtrlRel\_vs\_ChCtrlUnrel\_S | -0.38 | 1.00 | Non-significant | 25 |
| Fretibacterium | ChCtrlRel\_vs\_ChCtrlUnrel\_S | -1.69 | 1.00 | Non-significant | 25 |
| Aggregatibacter | ChCtrlRel\_vs\_ChCtrlUnrel\_S | 0.13 | 1.00 | Non-significant | 24 |
| Corynebacterium | ChCtrlRel\_vs\_ChCtrlUnrel\_S | -0.09 | 1.00 | Non-significant | 25 |
| Fusobacterium | ChCtrlRel\_vs\_ChCtrlUnrel\_S | 0.2 | 1.00 | Non-significant | 24 |
| Capnocytophaga | ChCtrlRel\_vs\_ChCtrlUnrel\_S | 0.12 | 1.00 | Non-significant | 24 |
| Prevotella | ChCtrlRel\_vs\_ChCtrlUnrel\_S | -0.09 | 1.00 | Non-significant | 25 |
| Campylobacter | ChCtrlRel\_vs\_ChPKU\_S | 0.02 | 1.00 | Non-significant | 24 |
| Veillonella | ChCtrlRel\_vs\_ChPKU\_S | 0.06 | 1.00 | Non-significant | 24 |
| Tannerella | ChCtrlRel\_vs\_ChPKU\_S | -0.24 | 1.00 | Non-significant | 25 |
| Streptococcus | ChCtrlRel\_vs\_ChPKU\_S | 0.13 | 1.00 | Non-significant | 24 |
| Stomatobaculum | ChCtrlRel\_vs\_ChPKU\_S | 0.22 | 1.00 | Non-significant | 24 |
| Peptostreptococcus | ChCtrlRel\_vs\_ChPKU\_S | 0.7 | 1.00 | Non-significant | 24 |
| Peptococcus | ChCtrlRel\_vs\_ChPKU\_S | 1.58 | 1.00 | Non-significant | 24 |
| Olsenella | ChCtrlRel\_vs\_ChPKU\_S | -1.93 | 1.00 | Non-significant | 25 |
| Leptotrichia | ChCtrlRel\_vs\_ChPKU\_S | 0.23 | 1.00 | Non-significant | 24 |
| Lautropia | ChCtrlRel\_vs\_ChPKU\_S | -0.65 | 1.00 | Non-significant | 25 |
| Haemophilus | ChCtrlRel\_vs\_ChPKU\_S | 0.41 | 1.00 | Non-significant | 24 |
| Gemella | ChCtrlRel\_vs\_ChPKU\_S | 0.5 | 1.00 | Non-significant | 24 |
| Catonella | ChCtrlRel\_vs\_ChPKU\_S | 0.36 | 1.00 | Non-significant | 24 |
| Cardiobacterium | ChCtrlRel\_vs\_ChPKU\_S | 0.07 | 1.00 | Non-significant | 24 |
| Atopobium | ChCtrlRel\_vs\_ChPKU\_S | -1.11 | 1.00 | Non-significant | 25 |
| Alloprevotella | ChCtrlRel\_vs\_ChPKU\_S | 0.19 | 1.00 | Non-significant | 24 |
| Actinomyces | ChCtrlRel\_vs\_ChPKU\_S | -0.87 | 1.00 | Non-significant | 25 |
| Selenomonas | ChCtrlRel\_vs\_ChPKU\_S | -0.77 | 1.00 | Non-significant | 25 |
| Lachnoanaerobaculum | ChCtrlRel\_vs\_ChPKU\_S | 0.68 | 1.00 | Non-significant | 24 |
| Neisseria | ChCtrlRel\_vs\_ChPKU\_S | -0.1 | 1.00 | Non-significant | 25 |
| F0332 | ChCtrlRel\_vs\_ChPKU\_S | -1.1 | 1.00 | Non-significant | 25 |
| Rothia | ChCtrlRel\_vs\_ChPKU\_S | -0.14 | 1.00 | Non-significant | 25 |
| Pseudopropionibacterium | ChCtrlRel\_vs\_ChPKU\_S | -0.56 | 1.00 | Non-significant | 25 |
| Porphyromonas | ChCtrlRel\_vs\_ChPKU\_S | 0.77 | 0.60 | Non-significant | 24 |
| Oribacterium | ChCtrlRel\_vs\_ChPKU\_S | -0.15 | 1.00 | Non-significant | 25 |
| Kingella | ChCtrlRel\_vs\_ChPKU\_S | -0.53 | 1.00 | Non-significant | 25 |
| Fretibacterium | ChCtrlRel\_vs\_ChPKU\_S | -1.61 | 1.00 | Non-significant | 25 |
| Aggregatibacter | ChCtrlRel\_vs\_ChPKU\_S | 0.78 | 1.00 | Non-significant | 24 |
| Corynebacterium | ChCtrlRel\_vs\_ChPKU\_S | 0.09 | 1.00 | Non-significant | 24 |
| Fusobacterium | ChCtrlRel\_vs\_ChPKU\_S | 0.12 | 1.00 | Non-significant | 24 |
| Capnocytophaga | ChCtrlRel\_vs\_ChPKU\_S | 0.83 | 1.00 | Non-significant | 24 |
| Prevotella | ChCtrlRel\_vs\_ChPKU\_S | -0.31 | 1.00 | Non-significant | 25 |
| Campylobacter | PKU\_vs\_Ctrl\_SP | -0.03 | 1.00 | Non-significant | 25 |
| Veillonella | PKU\_vs\_Ctrl\_SP | -0.31 | 1.00 | Non-significant | 25 |
| Tannerella | PKU\_vs\_Ctrl\_SP | 0.07 | 1.00 | Non-significant | 24 |
| Streptococcus | PKU\_vs\_Ctrl\_SP | 0.05 | 1.00 | Non-significant | 24 |
| Stomatobaculum | PKU\_vs\_Ctrl\_SP | 0.33 | 1.00 | Non-significant | 24 |
| Peptostreptococcus | PKU\_vs\_Ctrl\_SP | -1.59 | 1.00 | Non-significant | 25 |
| Peptococcus | PKU\_vs\_Ctrl\_SP | -0.46 | 1.00 | Non-significant | 25 |
| Olsenella | PKU\_vs\_Ctrl\_SP | 0.52 | 1.00 | Non-significant | 24 |
| Leptotrichia | PKU\_vs\_Ctrl\_SP | -0.81 | 0.00 | Significant | 25 |
| Lautropia | PKU\_vs\_Ctrl\_SP | 0.12 | 1.00 | Non-significant | 24 |
| Haemophilus | PKU\_vs\_Ctrl\_SP | -0.49 | 0.84 | Non-significant | 25 |
| Gemella | PKU\_vs\_Ctrl\_SP | -1.21 | 0.05 | Significant | 25 |
| Catonella | PKU\_vs\_Ctrl\_SP | -0.44 | 0.56 | Non-significant | 25 |
| Cardiobacterium | PKU\_vs\_Ctrl\_SP | -0.2 | 1.00 | Non-significant | 25 |
| Atopobium | PKU\_vs\_Ctrl\_SP | 0.32 | 1.00 | Non-significant | 24 |
| Alloprevotella | PKU\_vs\_Ctrl\_SP | 0.24 | 1.00 | Non-significant | 24 |
| Actinomyces | PKU\_vs\_Ctrl\_SP | 0.72 | 0.00 | Significant | 24 |
| Selenomonas | PKU\_vs\_Ctrl\_SP | 0.5 | 0.16 | Non-significant | 24 |
| Lachnoanaerobaculum | PKU\_vs\_Ctrl\_SP | -0.6 | 1.00 | Non-significant | 25 |
| Neisseria | PKU\_vs\_Ctrl\_SP | 0.24 | 1.00 | Non-significant | 24 |
| F0332 | PKU\_vs\_Ctrl\_SP | 0.26 | 1.00 | Non-significant | 24 |
| Rothia | PKU\_vs\_Ctrl\_SP | -0.25 | 1.00 | Non-significant | 25 |
| Pseudopropionibacterium | PKU\_vs\_Ctrl\_SP | 0.17 | 1.00 | Non-significant | 24 |
| Porphyromonas | PKU\_vs\_Ctrl\_SP | -0.23 | 1.00 | Non-significant | 25 |
| Oribacterium | PKU\_vs\_Ctrl\_SP | 0.54 | 1.00 | Non-significant | 24 |
| Kingella | PKU\_vs\_Ctrl\_SP | 0.53 | 1.00 | Non-significant | 24 |
| Fretibacterium | PKU\_vs\_Ctrl\_SP | 0.75 | 1.00 | Non-significant | 24 |
| Aggregatibacter | PKU\_vs\_Ctrl\_SP | -0.87 | 0.02 | Significant | 25 |
| Corynebacterium | PKU\_vs\_Ctrl\_SP | 0.17 | 1.00 | Non-significant | 24 |
| Fusobacterium | PKU\_vs\_Ctrl\_SP | -0.08 | 1.00 | Non-significant | 25 |
| Capnocytophaga | PKU\_vs\_Ctrl\_SP | -0.76 | 0.00 | Significant | 25 |
| Prevotella | PKU\_vs\_Ctrl\_SP | 0.1 | 1.00 | Non-significant | 24 |
| Campylobacter | PKU\_vs\_Ctrl\_Adults\_SP | 0.01 | 1.00 | Non-significant | 24 |
| Veillonella | PKU\_vs\_Ctrl\_Adults\_SP | -0.37 | 1.00 | Non-significant | 25 |
| Tannerella | PKU\_vs\_Ctrl\_Adults\_SP | 0.31 | 1.00 | Non-significant | 24 |
| Streptococcus | PKU\_vs\_Ctrl\_Adults\_SP | -0.13 | 1.00 | Non-significant | 25 |
| Stomatobaculum | PKU\_vs\_Ctrl\_Adults\_SP | -0.99 | 1.00 | Non-significant | 25 |
| Peptostreptococcus | PKU\_vs\_Ctrl\_Adults\_SP | -1.4 | 1.00 | Non-significant | 25 |
| Peptococcus | PKU\_vs\_Ctrl\_Adults\_SP | 0.03 | 1.00 | Non-significant | 24 |
| Olsenella | PKU\_vs\_Ctrl\_Adults\_SP | 0 | 1.00 | Non-significant | 25 |
| Leptotrichia | PKU\_vs\_Ctrl\_Adults\_SP | -0.72 | 0.19 | Non-significant | 25 |
| Lautropia | PKU\_vs\_Ctrl\_Adults\_SP | 0.31 | 1.00 | Non-significant | 24 |
| Haemophilus | PKU\_vs\_Ctrl\_Adults\_SP | -0.41 | 1.00 | Non-significant | 25 |
| Gemella | PKU\_vs\_Ctrl\_Adults\_SP | -0.96 | 1.00 | Non-significant | 25 |
| Catonella | PKU\_vs\_Ctrl\_Adults\_SP | -0.11 | 1.00 | Non-significant | 25 |
| Cardiobacterium | PKU\_vs\_Ctrl\_Adults\_SP | 0.14 | 1.00 | Non-significant | 24 |
| Atopobium | PKU\_vs\_Ctrl\_Adults\_SP | 0.21 | 1.00 | Non-significant | 24 |
| Alloprevotella | PKU\_vs\_Ctrl\_Adults\_SP | 0.15 | 1.00 | Non-significant | 24 |
| Actinomyces | PKU\_vs\_Ctrl\_Adults\_SP | 0.59 | 0.02 | Significant | 24 |
| Selenomonas | PKU\_vs\_Ctrl\_Adults\_SP | 0.3 | 1.00 | Non-significant | 24 |
| Lachnoanaerobaculum | PKU\_vs\_Ctrl\_Adults\_SP | -0.57 | 1.00 | Non-significant | 25 |
| Neisseria | PKU\_vs\_Ctrl\_Adults\_SP | 0.42 | 1.00 | Non-significant | 24 |
| F0332 | PKU\_vs\_Ctrl\_Adults\_SP | 0.34 | 1.00 | Non-significant | 24 |
| Rothia | PKU\_vs\_Ctrl\_Adults\_SP | -0.63 | 1.00 | Non-significant | 25 |
| Pseudopropionibacterium | PKU\_vs\_Ctrl\_Adults\_SP | 0.24 | 1.00 | Non-significant | 24 |
| Porphyromonas | PKU\_vs\_Ctrl\_Adults\_SP | 0.03 | 1.00 | Non-significant | 24 |
| Oribacterium | PKU\_vs\_Ctrl\_Adults\_SP | 0.22 | 1.00 | Non-significant | 24 |
| Kingella | PKU\_vs\_Ctrl\_Adults\_SP | 0.46 | 1.00 | Non-significant | 24 |
| Fretibacterium | PKU\_vs\_Ctrl\_Adults\_SP | 0.44 | 1.00 | Non-significant | 24 |
| Aggregatibacter | PKU\_vs\_Ctrl\_Adults\_SP | -0.47 | 1.00 | Non-significant | 25 |
| Corynebacterium | PKU\_vs\_Ctrl\_Adults\_SP | 0.12 | 1.00 | Non-significant | 24 |
| Fusobacterium | PKU\_vs\_Ctrl\_Adults\_SP | 0.04 | 1.00 | Non-significant | 24 |
| Capnocytophaga | PKU\_vs\_Ctrl\_Adults\_SP | -0.54 | 0.79 | Non-significant | 25 |
| Prevotella | PKU\_vs\_Ctrl\_Adults\_SP | 0.07 | 1.00 | Non-significant | 24 |
| Campylobacter | PKU\_vs\_Ctrl\_Ch\_SP | -0.08 | 1.00 | Non-significant | 25 |
| Veillonella | PKU\_vs\_Ctrl\_Ch\_SP | -0.26 | 1.00 | Non-significant | 25 |
| Tannerella | PKU\_vs\_Ctrl\_Ch\_SP | -0.15 | 1.00 | Non-significant | 25 |
| Streptococcus | PKU\_vs\_Ctrl\_Ch\_SP | 0.18 | 1.00 | Non-significant | 24 |
| Stomatobaculum | PKU\_vs\_Ctrl\_Ch\_SP | 1.12 | 0.10 | Non-significant | 24 |
| Peptostreptococcus | PKU\_vs\_Ctrl\_Ch\_SP | -1.77 | 1.00 | Non-significant | 25 |
| Peptococcus | PKU\_vs\_Ctrl\_Ch\_SP | -0.91 | 1.00 | Non-significant | 25 |
| Olsenella | PKU\_vs\_Ctrl\_Ch\_SP | 0.89 | 1.00 | Non-significant | 24 |
| Leptotrichia | PKU\_vs\_Ctrl\_Ch\_SP | -0.88 | 0.02 | Significant | 25 |
| Lautropia | PKU\_vs\_Ctrl\_Ch\_SP | -0.07 | 1.00 | Non-significant | 25 |
| Haemophilus | PKU\_vs\_Ctrl\_Ch\_SP | -0.53 | 1.00 | Non-significant | 25 |
| Gemella | PKU\_vs\_Ctrl\_Ch\_SP | -1.35 | 0.05 | Significant | 25 |
| Catonella | PKU\_vs\_Ctrl\_Ch\_SP | -0.7 | 1.00 | Non-significant | 25 |
| Cardiobacterium | PKU\_vs\_Ctrl\_Ch\_SP | -0.45 | 1.00 | Non-significant | 25 |
| Atopobium | PKU\_vs\_Ctrl\_Ch\_SP | 0.45 | 1.00 | Non-significant | 24 |
| Alloprevotella | PKU\_vs\_Ctrl\_Ch\_SP | 0.31 | 1.00 | Non-significant | 24 |
| Actinomyces | PKU\_vs\_Ctrl\_Ch\_SP | 0.83 | 0.00 | Significant | 24 |
| Selenomonas | PKU\_vs\_Ctrl\_Ch\_SP | 0.7 | 0.46 | Non-significant | 24 |
| Lachnoanaerobaculum | PKU\_vs\_Ctrl\_Ch\_SP | -0.62 | 1.00 | Non-significant | 25 |
| Neisseria | PKU\_vs\_Ctrl\_Ch\_SP | 0.11 | 1.00 | Non-significant | 24 |
| F0332 | PKU\_vs\_Ctrl\_Ch\_SP | 0.17 | 1.00 | Non-significant | 24 |
| Rothia | PKU\_vs\_Ctrl\_Ch\_SP | 0.06 | 1.00 | Non-significant | 24 |
| Pseudopropionibacterium | PKU\_vs\_Ctrl\_Ch\_SP | 0.13 | 1.00 | Non-significant | 24 |
| Porphyromonas | PKU\_vs\_Ctrl\_Ch\_SP | -0.44 | 1.00 | Non-significant | 25 |
| Oribacterium | PKU\_vs\_Ctrl\_Ch\_SP | 0.77 | 1.00 | Non-significant | 24 |
| Kingella | PKU\_vs\_Ctrl\_Ch\_SP | 0.58 | 1.00 | Non-significant | 24 |
| Fretibacterium | PKU\_vs\_Ctrl\_Ch\_SP | 1.07 | 1.00 | Non-significant | 24 |
| Aggregatibacter | PKU\_vs\_Ctrl\_Ch\_SP | -1.26 | 0.01 | Significant | 25 |
| Corynebacterium | PKU\_vs\_Ctrl\_Ch\_SP | 0.2 | 1.00 | Non-significant | 24 |
| Fusobacterium | PKU\_vs\_Ctrl\_Ch\_SP | -0.19 | 1.00 | Non-significant | 25 |
| Capnocytophaga | PKU\_vs\_Ctrl\_Ch\_SP | -0.95 | 0.00 | Significant | 25 |
| Prevotella | PKU\_vs\_Ctrl\_Ch\_SP | 0.13 | 1.00 | Non-significant | 24 |

**Appendix Table 6. Relative abundance correlations of most abundant genera in control saliva**

|  |  |  |  |
| --- | --- | --- | --- |
| Appendix Table 6. Relative abundance correlations of most abundant genera in control saliva | | | |
| **var1** | **var2** | **rho** | **qvalue** |
| **Treponema** | Tannerella | 0.77 | 1.8E-08 |
| **Tannerella** | Treponema | 0.77 | 1.8E-08 |
| **Veillonella** | Prevotella | 0.68 | 5.9E-08 |
| **Prevotella** | Veillonella | 0.68 | 5.9E-08 |
| **Corynebacterium** | Cardiobacterium | 0.60 | 3.3E-06 |
| **Cardiobacterium** | Corynebacterium | 0.60 | 3.3E-06 |
| **Porphyromonas** | Neisseria | 0.46 | 7.9E-05 |
| **Neisseria** | Porphyromonas | 0.46 | 7.9E-05 |
| **Prevotella** | Neisseria | -0.52 | 2.3E-04 |
| **Neisseria** | Prevotella | -0.52 | 2.3E-04 |
| **Streptococcus** | Alloprevotella | -0.52 | 3.1E-04 |
| **Alloprevotella** | Streptococcus | -0.52 | 3.1E-04 |
| **Porphyromonas** | Prevotella | -0.53 | 4.6E-04 |
| **Prevotella** | Porphyromonas | -0.53 | 6.1E-04 |
| **Oribacterium** | Prevotella | 0.44 | 6.4E-04 |
| **Alloprevotella** | Porphyromonas | 0.52 | 9.4E-04 |
| **Streptococcus** | Porphyromonas | -0.50 | 9.4E-04 |
| **Veillonella** | Porphyromonas | -0.49 | 9.4E-04 |
| **Porphyromonas** | Veillonella | -0.49 | 1.6E-03 |
| **Prevotella** | Oribacterium | 0.44 | 1.6E-03 |
| **Porphyromonas** | Alloprevotella | 0.52 | 1.8E-03 |
| **Neisseria** | Veillonella | -0.46 | 1.8E-03 |
| **Oribacterium** | Veillonella | 0.42 | 1.8E-03 |
| **Campylobacter** | Prevotella | 0.40 | 1.9E-03 |
| **Porphyromonas** | Streptococcus | -0.50 | 1.9E-03 |
| **Veillonella** | Neisseria | -0.46 | 2.3E-03 |
| **Veillonella** | Oribacterium | 0.42 | 2.5E-03 |
| **Campylobacter** | Neisseria | -0.39 | 3.3E-03 |
| **Cardiobacterium** | Veillonella | -0.41 | 4.4E-03 |
| **Neisseria** | Campylobacter | -0.39 | 5.4E-03 |
| **Prevotella** | Campylobacter | 0.40 | 5.4E-03 |
| **Oribacterium** | Campylobacter | 0.39 | 7.2E-03 |
| **Campylobacter** | Oribacterium | 0.39 | 7.2E-03 |
| **Tannerella** | Streptococcus | -0.42 | 8.4E-03 |
| **Streptococcus** | Veillonella | 0.39 | 8.4E-03 |
| **Tannerella** | Veillonella | -0.39 | 8.4E-03 |
| **Veillonella** | Cardiobacterium | -0.41 | 8.8E-03 |
| **Tannerella** | Cardiobacterium | 0.37 | 1.1E-02 |
| **Cardiobacterium** | Tannerella | 0.37 | 1.1E-02 |
| **Streptococcus** | Tannerella | -0.42 | 1.1E-02 |
| **Selenomonas** | Actinomyces | 0.37 | 1.2E-02 |
| **Actinomyces** | Selenomonas | 0.37 | 1.2E-02 |
| **Veillonella** | Streptococcus | 0.39 | 1.3E-02 |
| **Veillonella** | Tannerella | -0.39 | 1.3E-02 |
| **Corynebacterium** | Oribacterium | -0.34 | 0.01 |
| **Cardiobacterium** | Oribacterium | -0.24 | 0.02 |
| **Haemophilus** | Selenomonas | -0.36 | 0.02 |
| **Campylobacter** | Porphyromonas | -0.38 | 0.02 |
| **Oribacterium** | Cardiobacterium | -0.24 | 0.02 |
| **Kingella** | Corynebacterium | 0.32 | 0.02 |
| **Oribacterium** | Corynebacterium | -0.34 | 0.02 |
| **Selenomonas** | Corynebacterium | 0.31 | 0.02 |
| **Porphyromonas** | Campylobacter | -0.38 | 0.02 |
| **Selenomonas** | Haemophilus | -0.36 | 0.02 |
| **Corynebacterium** | Selenomonas | 0.31 | 0.03 |
| **Campylobacter** | Veillonella | 0.27 | 0.03 |
| **Corynebacterium** | Veillonella | -0.37 | 0.03 |
| **Treponema** | Cardiobacterium | 0.30 | 0.03 |
| **Haemophilus** | Cardiobacterium | -0.24 | 0.03 |
| **Kingella** | Cardiobacterium | 0.43 | 0.03 |
| **Prevotella** | Cardiobacterium | -0.32 | 0.03 |
| **Fusobacterium** | Prevotella | -0.35 | 0.03 |
| **Treponema** | Selenomonas | 0.24 | 0.04 |
| **Haemophilus** | Actinomyces | -0.46 | 0.04 |
| **Actinomyces** | Haemophilus | -0.46 | 0.04 |
| **Gemella** | Campylobacter | -0.29 | 0.04 |
| **Veillonella** | Campylobacter | 0.27 | 0.04 |
| **Cardiobacterium** | Prevotella | -0.32 | 0.04 |
| **Selenomonas** | Cardiobacterium | 0.25 | 0.04 |
| **Fusobacterium** | Veillonella | -0.26 | 0.04 |
| **Corynebacterium** | Tannerella | 0.29 | 0.04 |
| **Haemophilus** | Tannerella | -0.26 | 0.04 |
| **Selenomonas** | Tannerella | 0.28 | 0.04 |
| **Haemophilus** | Corynebacterium | -0.28 | 0.04 |
| **Tannerella** | Corynebacterium | 0.29 | 0.04 |
| **Veillonella** | Corynebacterium | -0.37 | 0.04 |
| **Actinomyces** | Porphyromonas | -0.38 | 0.05 |
| **Cardiobacterium** | Treponema | 0.30 | 0.05 |
| **Selenomonas** | Treponema | 0.24 | 0.05 |
| **Cardiobacterium** | Haemophilus | -0.24 | 0.05 |
| **Corynebacterium** | Haemophilus | -0.28 | 0.05 |
| **Tannerella** | Haemophilus | -0.26 | 0.05 |
| **Treponema** | Haemophilus | -0.26 | 0.05 |
| **Corynebacterium** | Kingella | 0.32 | 0.05 |
| **Fusobacterium** | Rothia | -0.46 | 0.05 |
| **Rothia** | Fusobacterium | -0.46 | 0.05 |
| **Cardiobacterium** | Selenomonas | 0.25 | 0.06 |
| **Tannerella** | Selenomonas | 0.28 | 0.06 |
| **Haemophilus** | Treponema | -0.26 | 0.06 |
| **Gemella** | Fusobacterium | 0.41 | 0.06 |
| **Prevotella** | Fusobacterium | -0.35 | 0.06 |
| **Treponema** | Corynebacterium | 0.22 | 0.06 |
| **Bergeyella** | Actinomyces | -0.30 | 0.06 |
| **Kingella** | Actinomyces | 0.26 | 0.06 |
| **Neisseria** | Actinomyces | -0.36 | 0.06 |
| **Porphyromonas** | Actinomyces | -0.38 | 0.06 |
| **Actinomyces** | Neisseria | -0.36 | 0.07 |
| **Oribacterium** | Neisseria | -0.31 | 0.07 |
| **Streptococcus** | Neisseria | -0.32 | 0.07 |
| **Actinomyces** | Kingella | 0.26 | 0.07 |
| **Cardiobacterium** | Kingella | 0.43 | 0.07 |
| **Campylobacter** | Gemella | -0.29 | 0.08 |
| **Fusobacterium** | Gemella | 0.41 | 0.08 |
| **Actinomyces** | Corynebacterium | 0.19 | 0.08 |
| **Oribacterium** | Haemophilus | 0.24 | 0.08 |
| **Haemophilus** | Oribacterium | 0.24 | 0.08 |
| **Neisseria** | Oribacterium | -0.31 | 0.08 |
| **Gemella** | Prevotella | -0.29 | 0.08 |
| **Gemella** | Oribacterium | -0.27 | 0.08 |
| **Rothia** | Kingella | 0.24 | 0.08 |
| **Veillonella** | Fusobacterium | -0.26 | 0.09 |
| **Fusobacterium** | Porphyromonas | 0.19 | 0.09 |
| **Streptococcus** | Prevotella | 0.15 | 0.09 |
| **Neisseria** | Streptococcus | -0.32 | 0.09 |
| **Corynebacterium** | Treponema | 0.22 | 0.10 |
| **Corynebacterium** | Actinomyces | 0.19 | 0.10 |
| **Alloprevotella** | Veillonella | -0.22 | 0.10 |
| **Treponema** | Streptococcus | -0.26 | 0.11 |
| **Streptococcus** | Treponema | -0.26 | 0.11 |
| **Prevotella** | Streptococcus | 0.15 | 0.12 |
| **Treponema** | Veillonella | -0.22 | 0.12 |
| **Rothia** | Streptococcus | 0.24 | 0.13 |
| **Kingella** | Rothia | 0.24 | 0.13 |
| **Porphyromonas** | Fusobacterium | 0.19 | 0.13 |
| **Alloprevotella** | Neisseria | 0.15 | 0.14 |
| **Tannerella** | Prevotella | -0.20 | 0.14 |
| **Oribacterium** | Gemella | -0.27 | 0.14 |
| **Prevotella** | Gemella | -0.29 | 0.14 |
| **Bergeyella** | Fusobacterium | 0.25 | 0.15 |
| **Haemophilus** | Veillonella | 0.13 | 0.15 |
| **Prevotella** | Tannerella | -0.20 | 0.16 |
| **Fusobacterium** | Tannerella | 0.21 | 0.16 |
| **Corynebacterium** | Prevotella | -0.20 | 0.17 |
| **Selenomonas** | Neisseria | -0.26 | 0.18 |
| **Fusobacterium** | Neisseria | 0.08 | 0.18 |
| **Prevotella** | Corynebacterium | -0.20 | 0.19 |
| **Kingella** | Oribacterium | -0.21 | 0.19 |
| **Alloprevotella** | Prevotella | -0.19 | 0.19 |
| **Tannerella** | Fusobacterium | 0.21 | 0.20 |
| **Veillonella** | Treponema | -0.22 | 0.20 |
| **Bergeyella** | Selenomonas | -0.18 | 0.20 |
| **Gemella** | Selenomonas | -0.23 | 0.20 |
| **Neisseria** | Selenomonas | -0.26 | 0.20 |
| **Rothia** | Actinomyces | 0.21 | 0.20 |
| **Bergeyella** | Rothia | -0.25 | 0.20 |
| **Kingella** | Selenomonas | 0.14 | 0.22 |
| **Neisseria** | Fusobacterium | 0.08 | 0.22 |
| **Actinomyces** | Bergeyella | -0.30 | 0.23 |
| **Gemella** | Neisseria | 0.10 | 0.23 |
| **Veillonella** | Haemophilus | 0.13 | 0.24 |
| **Streptococcus** | Rothia | 0.24 | 0.24 |
| **Kingella** | Porphyromonas | -0.16 | 0.25 |
| **Actinomyces** | Oribacterium | -0.25 | 0.25 |
| **Porphyromonas** | Oribacterium | -0.13 | 0.25 |
| **Fusobacterium** | Oribacterium | -0.15 | 0.25 |
| **Neisseria** | Alloprevotella | 0.15 | 0.25 |
| **Veillonella** | Alloprevotella | -0.22 | 0.25 |
| **Treponema** | Actinomyces | 0.23 | 0.25 |
| **Oribacterium** | Fusobacterium | -0.15 | 0.25 |
| **Treponema** | Fusobacterium | 0.24 | 0.25 |
| **Rothia** | Porphyromonas | -0.20 | 0.26 |
| **Kingella** | Fusobacterium | -0.20 | 0.26 |
| **Alloprevotella** | Kingella | -0.20 | 0.26 |
| **Oribacterium** | Kingella | -0.21 | 0.26 |
| **Porphyromonas** | Kingella | -0.16 | 0.26 |
| **Selenomonas** | Kingella | 0.14 | 0.26 |
| **Streptococcus** | Kingella | 0.20 | 0.26 |
| **Kingella** | Streptococcus | 0.20 | 0.26 |
| **Actinomyces** | Treponema | 0.23 | 0.26 |
| **Fusobacterium** | Treponema | 0.24 | 0.26 |
| **Rothia** | Bergeyella | -0.25 | 0.26 |
| **Fusobacterium** | Bergeyella | 0.25 | 0.26 |
| **Cardiobacterium** | Actinomyces | 0.15 | 0.27 |
| **Oribacterium** | Actinomyces | -0.25 | 0.27 |
| **Alloprevotella** | Tannerella | 0.14 | 0.27 |
| **Oribacterium** | Porphyromonas | -0.13 | 0.27 |
| **Rothia** | Corynebacterium | 0.23 | 0.27 |
| **Haemophilus** | Fusobacterium | -0.18 | 0.27 |
| **Streptococcus** | Fusobacterium | -0.09 | 0.27 |
| **Selenomonas** | Porphyromonas | -0.27 | 0.27 |
| **Tannerella** | Porphyromonas | 0.15 | 0.27 |
| **Actinomyces** | Cardiobacterium | 0.15 | 0.28 |
| **Streptococcus** | Cardiobacterium | -0.17 | 0.28 |
| **Fusobacterium** | Kingella | -0.20 | 0.28 |
| **Kingella** | Alloprevotella | -0.20 | 0.28 |
| **Tannerella** | Oribacterium | -0.10 | 0.29 |
| **Gemella** | Veillonella | -0.18 | 0.29 |
| **Bergeyella** | Neisseria | 0.13 | 0.30 |
| **Actinomyces** | Rothia | 0.21 | 0.30 |
| **Selenomonas** | Gemella | -0.23 | 0.31 |
| **Cardiobacterium** | Streptococcus | -0.17 | 0.31 |
| **Porphyromonas** | Selenomonas | -0.27 | 0.31 |
| **Oribacterium** | Tannerella | -0.10 | 0.31 |
| **Porphyromonas** | Tannerella | 0.15 | 0.31 |
| **Prevotella** | Alloprevotella | -0.19 | 0.31 |
| **Rothia** | Alloprevotella | -0.19 | 0.31 |
| **Fusobacterium** | Streptococcus | -0.09 | 0.32 |
| **Alloprevotella** | Rothia | -0.19 | 0.32 |
| **Tannerella** | Alloprevotella | 0.14 | 0.33 |
| **Cardiobacterium** | Fusobacterium | 0.14 | 0.33 |
| **Streptococcus** | Actinomyces | 0.15 | 0.35 |
| **Actinomyces** | Streptococcus | 0.15 | 0.35 |
| **Fusobacterium** | Haemophilus | -0.18 | 0.35 |
| **Porphyromonas** | Rothia | -0.20 | 0.35 |
| **Corynebacterium** | Rothia | 0.23 | 0.36 |
| **Gemella** | Streptococcus | 0.24 | 0.37 |
| **Haemophilus** | Streptococcus | 0.07 | 0.37 |
| **Fusobacterium** | Cardiobacterium | 0.14 | 0.38 |
| **Selenomonas** | Bergeyella | -0.18 | 0.39 |
| **Campylobacter** | Alloprevotella | -0.18 | 0.39 |
| **Neisseria** | Gemella | 0.10 | 0.40 |
| **Rothia** | Oribacterium | -0.13 | 0.42 |
| **Selenomonas** | Oribacterium | -0.14 | 0.42 |
| **Campylobacter** | Selenomonas | 0.17 | 0.42 |
| **Kingella** | Neisseria | -0.18 | 0.43 |
| **Bergeyella** | Porphyromonas | 0.08 | 0.44 |
| **Gemella** | Porphyromonas | 0.08 | 0.44 |
| **Campylobacter** | Treponema | 0.26 | 0.45 |
| **Actinomyces** | Fusobacterium | -0.11 | 0.46 |
| **Campylobacter** | Fusobacterium | -0.01 | 0.46 |
| **Oribacterium** | Selenomonas | -0.14 | 0.47 |
| **Alloprevotella** | Haemophilus | -0.20 | 0.48 |
| **Streptococcus** | Haemophilus | 0.07 | 0.48 |
| **Alloprevotella** | Actinomyces | -0.07 | 0.49 |
| **Alloprevotella** | Campylobacter | -0.18 | 0.49 |
| **Fusobacterium** | Actinomyces | -0.11 | 0.49 |
| **Haemophilus** | Prevotella | -0.02 | 0.50 |
| **Neisseria** | Kingella | -0.18 | 0.50 |
| **Tannerella** | Actinomyces | 0.08 | 0.51 |
| **Haemophilus** | Alloprevotella | -0.20 | 0.52 |
| **Cardiobacterium** | Neisseria | 0.09 | 0.53 |
| **Actinomyces** | Alloprevotella | -0.07 | 0.53 |
| **Gemella** | Alloprevotella | -0.23 | 0.53 |
| **Prevotella** | Haemophilus | -0.02 | 0.54 |
| **Treponema** | Neisseria | -0.24 | 0.54 |
| **Rothia** | Haemophilus | 0.19 | 0.54 |
| **Veillonella** | Gemella | -0.18 | 0.54 |
| **Treponema** | Prevotella | -0.11 | 0.55 |
| **Treponema** | Campylobacter | 0.26 | 0.55 |
| **Selenomonas** | Campylobacter | 0.17 | 0.55 |
| **Campylobacter** | Haemophilus | 0.14 | 0.56 |
| **Kingella** | Haemophilus | -0.06 | 0.56 |
| **Neisseria** | Cardiobacterium | 0.09 | 0.57 |
| **Rothia** | Neisseria | -0.09 | 0.57 |
| **Actinomyces** | Tannerella | 0.08 | 0.58 |
| **Cardiobacterium** | Porphyromonas | 0.02 | 0.58 |
| **Treponema** | Oribacterium | 0.01 | 0.58 |
| **Bergeyella** | Kingella | -0.03 | 0.59 |
| **Haemophilus** | Kingella | -0.06 | 0.60 |
| **Selenomonas** | Streptococcus | -0.12 | 0.60 |
| **Corynebacterium** | Alloprevotella | -0.21 | 0.60 |
| **Prevotella** | Actinomyces | 0.08 | 0.60 |
| **Alloprevotella** | Treponema | 0.02 | 0.61 |
| **Bergeyella** | Treponema | -0.09 | 0.61 |
| **Gemella** | Treponema | -0.08 | 0.61 |
| **Neisseria** | Treponema | -0.24 | 0.61 |
| **Oribacterium** | Treponema | 0.01 | 0.61 |
| **Prevotella** | Treponema | -0.11 | 0.61 |
| **Streptococcus** | Gemella | 0.24 | 0.62 |
| **Alloprevotella** | Gemella | -0.23 | 0.62 |
| **Porphyromonas** | Gemella | 0.08 | 0.62 |
| **Rothia** | Tannerella | -0.05 | 0.63 |
| **Streptococcus** | Selenomonas | -0.12 | 0.64 |
| **Actinomyces** | Prevotella | 0.08 | 0.64 |
| **Neisseria** | Bergeyella | 0.13 | 0.64 |
| **Rothia** | Treponema | -0.03 | 0.64 |
| **Alloprevotella** | Corynebacterium | -0.21 | 0.65 |
| **Porphyromonas** | Cardiobacterium | 0.02 | 0.66 |
| **Oribacterium** | Rothia | -0.13 | 0.67 |
| **Veillonella** | Selenomonas | -0.11 | 0.67 |
| **Selenomonas** | Veillonella | -0.11 | 0.67 |
| **Campylobacter** | Cardiobacterium | 0.00 | 0.68 |
| **Haemophilus** | Rothia | 0.19 | 0.68 |
| **Treponema** | Alloprevotella | 0.02 | 0.69 |
| **Campylobacter** | Rothia | -0.14 | 0.69 |
| **Neisseria** | Rothia | -0.09 | 0.69 |
| **Tannerella** | Rothia | -0.05 | 0.69 |
| **Gemella** | Tannerella | -0.08 | 0.69 |
| **Bergeyella** | Tannerella | -0.06 | 0.70 |
| **Fusobacterium** | Campylobacter | -0.01 | 0.71 |
| **Alloprevotella** | Fusobacterium | -0.07 | 0.72 |
| **Corynebacterium** | Fusobacterium | 0.01 | 0.72 |
| **Selenomonas** | Fusobacterium | -0.07 | 0.72 |
| **Haemophilus** | Campylobacter | 0.14 | 0.72 |
| **Rothia** | Campylobacter | -0.14 | 0.72 |
| **Bergeyella** | Prevotella | -0.05 | 0.72 |
| **Bergeyella** | Corynebacterium | -0.03 | 0.75 |
| **Campylobacter** | Streptococcus | -0.04 | 0.76 |
| **Corynebacterium** | Streptococcus | 0.01 | 0.76 |
| **Oribacterium** | Streptococcus | -0.06 | 0.76 |
| **Treponema** | Gemella | -0.08 | 0.77 |
| **Treponema** | Rothia | -0.03 | 0.77 |
| **Campylobacter** | Tannerella | 0.16 | 0.77 |
| **Cardiobacterium** | Campylobacter | 0.00 | 0.78 |
| **Bergeyella** | Gemella | 0.00 | 0.79 |
| **Tannerella** | Gemella | -0.08 | 0.79 |
| **Bergeyella** | Cardiobacterium | -0.03 | 0.79 |
| **Rothia** | Cardiobacterium | 0.00 | 0.79 |
| **Streptococcus** | Oribacterium | -0.06 | 0.80 |
| **Fusobacterium** | Selenomonas | -0.07 | 0.81 |
| **Fusobacterium** | Alloprevotella | -0.07 | 0.81 |
| **Neisseria** | Tannerella | -0.09 | 0.81 |
| **Alloprevotella** | Selenomonas | 0.09 | 0.81 |
| **Prevotella** | Selenomonas | 0.03 | 0.81 |
| **Rothia** | Selenomonas | -0.04 | 0.81 |
| **Haemophilus** | Porphyromonas | -0.03 | 0.82 |
| **Corynebacterium** | Porphyromonas | -0.10 | 0.82 |
| **Bergeyella** | Alloprevotella | -0.12 | 0.82 |
| **Veillonella** | Actinomyces | 0.06 | 0.83 |
| **Treponema** | Porphyromonas | -0.02 | 0.83 |
| **Kingella** | Gemella | -0.09 | 0.84 |
| **Gemella** | Kingella | -0.09 | 0.84 |
| **Selenomonas** | Alloprevotella | 0.09 | 0.85 |
| **Tannerella** | Neisseria | -0.09 | 0.85 |
| **Campylobacter** | Corynebacterium | 0.07 | 0.86 |
| **Gemella** | Corynebacterium | -0.10 | 0.86 |
| **Porphyromonas** | Corynebacterium | -0.10 | 0.86 |
| **Streptococcus** | Corynebacterium | 0.01 | 0.86 |
| **Fusobacterium** | Corynebacterium | 0.01 | 0.86 |
| **Porphyromonas** | Haemophilus | -0.03 | 0.86 |
| **Selenomonas** | Prevotella | 0.03 | 0.87 |
| **Streptococcus** | Campylobacter | -0.04 | 0.87 |
| **Tannerella** | Campylobacter | 0.16 | 0.87 |
| **Cardiobacterium** | Rothia | 0.00 | 0.88 |
| **Kingella** | Treponema | 0.00 | 0.88 |
| **Porphyromonas** | Treponema | -0.02 | 0.88 |
| **Actinomyces** | Veillonella | 0.06 | 0.88 |
| **Bergeyella** | Veillonella | -0.03 | 0.89 |
| **Corynebacterium** | Campylobacter | 0.07 | 0.91 |
| **Kingella** | Campylobacter | -0.03 | 0.91 |
| **Kingella** | Tannerella | -0.06 | 0.92 |
| **Campylobacter** | Kingella | -0.03 | 0.92 |
| **Prevotella** | Kingella | -0.07 | 0.92 |
| **Tannerella** | Kingella | -0.06 | 0.92 |
| **Veillonella** | Kingella | 0.01 | 0.92 |
| **Treponema** | Kingella | 0.00 | 0.92 |
| **Neisseria** | Corynebacterium | -0.03 | 0.92 |
| **Gemella** | Cardiobacterium | -0.07 | 0.93 |
| **Cardiobacterium** | Alloprevotella | -0.13 | 0.93 |
| **Oribacterium** | Alloprevotella | 0.04 | 0.93 |
| **Alloprevotella** | Cardiobacterium | -0.13 | 0.93 |
| **Kingella** | Veillonella | 0.01 | 0.93 |
| **Rothia** | Veillonella | -0.09 | 0.93 |
| **Alloprevotella** | Oribacterium | 0.04 | 0.94 |
| **Bergeyella** | Oribacterium | -0.03 | 0.94 |
| **Kingella** | Prevotella | -0.07 | 0.94 |
| **Corynebacterium** | Bergeyella | -0.03 | 0.94 |
| **Gemella** | Bergeyella | 0.00 | 0.94 |
| **Kingella** | Bergeyella | -0.03 | 0.94 |
| **Porphyromonas** | Bergeyella | 0.08 | 0.94 |
| **Prevotella** | Bergeyella | -0.05 | 0.94 |
| **Tannerella** | Bergeyella | -0.06 | 0.94 |
| **Treponema** | Bergeyella | -0.09 | 0.94 |
| **Corynebacterium** | Gemella | -0.10 | 0.95 |
| **Alloprevotella** | Bergeyella | -0.12 | 0.95 |
| **Cardiobacterium** | Bergeyella | -0.03 | 0.95 |
| **Campylobacter** | Bergeyella | 0.06 | 0.96 |
| **Haemophilus** | Bergeyella | -0.09 | 0.96 |
| **Oribacterium** | Bergeyella | -0.03 | 0.96 |
| **Streptococcus** | Bergeyella | 0.06 | 0.96 |
| **Veillonella** | Bergeyella | -0.03 | 0.96 |
| **Bergeyella** | Streptococcus | 0.06 | 0.96 |
| **Selenomonas** | Rothia | -0.04 | 0.96 |
| **Rothia** | Prevotella | -0.10 | 0.96 |
| **Gemella** | Rothia | 0.03 | 0.96 |
| **Prevotella** | Rothia | -0.10 | 0.96 |
| **Veillonella** | Rothia | -0.09 | 0.96 |
| **Corynebacterium** | Neisseria | -0.03 | 0.97 |
| **Haemophilus** | Neisseria | -0.02 | 0.97 |
| **Actinomyces** | Gemella | 0.06 | 0.97 |
| **Cardiobacterium** | Gemella | -0.07 | 0.97 |
| **Haemophilus** | Gemella | 0.00 | 0.97 |
| **Rothia** | Gemella | 0.03 | 0.97 |
| **Bergeyella** | Haemophilus | -0.09 | 0.97 |
| **Gemella** | Haemophilus | 0.00 | 0.97 |
| **Neisseria** | Haemophilus | -0.02 | 0.97 |
| **Gemella** | Actinomyces | 0.06 | 0.98 |
| **Campylobacter** | Actinomyces | -0.09 | 0.98 |
| **Actinomyces** | Campylobacter | -0.09 | 0.98 |
| **Bergeyella** | Campylobacter | 0.06 | 0.98 |

**Appendix Table 7. Relative abundance correlations of most abundant genera in PKU saliva**

|  |  |  |  |
| --- | --- | --- | --- |
| Appendix Table 7. Relative abundance correlations of most abundant genera in PKU saliva | | | |
| **var1** | **var2** | **rho** | **qvalue** |
| **Cardiobacterium** | Corynebacterium | 0.62 | 3.0E-07 |
| **Kingella** | Corynebacterium | 0.64 | 3.0E-07 |
| **Corynebacterium** | Cardiobacterium | 0.62 | 3.1E-07 |
| **Corynebacterium** | Kingella | 0.64 | 4.5E-07 |
| **Prevotella** | Campylobacter | 0.56 | 1.8E-06 |
| **Campylobacter** | Prevotella | 0.56 | 1.8E-06 |
| **Veillonella** | Prevotella | 0.59 | 4.2E-05 |
| **Prevotella** | Veillonella | 0.59 | 6.3E-05 |
| **Cardiobacterium** | Kingella | 0.41 | 1.1E-04 |
| **Haemophilus** | Kingella | -0.47 | 1.1E-04 |
| **Selenomonas** | Corynebacterium | 0.52 | 1.4E-04 |
| **Kingella** | Cardiobacterium | 0.41 | 1.4E-04 |
| **Haemophilus** | Corynebacterium | -0.50 | 1.7E-04 |
| **Neisseria** | Veillonella | -0.61 | 1.8E-04 |
| **Kingella** | Haemophilus | -0.47 | 2.3E-04 |
| **Veillonella** | Neisseria | -0.61 | 2.7E-04 |
| **Corynebacterium** | Selenomonas | 0.52 | 2.7E-04 |
| **Corynebacterium** | Haemophilus | -0.50 | 2.8E-04 |
| **Neisseria** | Prevotella | -0.55 | 6.3E-04 |
| **Campylobacter** | Veillonella | 0.46 | 7.2E-04 |
| **Prevotella** | Neisseria | -0.55 | 8.4E-04 |
| **Veillonella** | Campylobacter | 0.46 | 9.5E-04 |
| **Oribacterium** | Corynebacterium | -0.37 | 9.6E-04 |
| **Oribacterium** | Prevotella | 0.40 | 9.7E-04 |
| **Selenomonas** | Haemophilus | -0.38 | 1.0E-03 |
| **Oribacterium** | Campylobacter | 0.42 | 1.1E-03 |
| **Porphyromonas** | Veillonella | -0.51 | 1.2E-03 |
| **Haemophilus** | Selenomonas | -0.38 | 1.4E-03 |
| **Actinomyces** | Rothia | 0.44 | 1.4E-03 |
| **Streptococcus** | Rothia | 0.43 | 1.4E-03 |
| **Campylobacter** | Oribacterium | 0.42 | 1.4E-03 |
| **Corynebacterium** | Oribacterium | -0.37 | 1.4E-03 |
| **Prevotella** | Oribacterium | 0.40 | 1.4E-03 |
| **Selenomonas** | Cardiobacterium | 0.38 | 1.7E-03 |
| **Cardiobacterium** | Selenomonas | 0.38 | 1.7E-03 |
| **Rothia** | Actinomyces | 0.44 | 1.7E-03 |
| **Haemophilus** | Cardiobacterium | -0.40 | 1.9E-03 |
| **Cardiobacterium** | Haemophilus | -0.40 | 1.9E-03 |
| **Actinomyces** | Haemophilus | -0.43 | 2.0E-03 |
| **Rothia** | Streptococcus | 0.43 | 2.2E-03 |
| **Selenomonas** | Kingella | 0.33 | 2.8E-03 |
| **Kingella** | Selenomonas | 0.33 | 2.8E-03 |
| **Treponema** | Tannerella | 0.41 | 2.9E-03 |
| **Tannerella** | Treponema | 0.41 | 2.9E-03 |
| **Veillonella** | Porphyromonas | -0.51 | 0.00 |
| **Haemophilus** | Actinomyces | -0.43 | 0.00 |
| **Fusobacterium** | Rothia | -0.36 | 0.00 |
| **Oribacterium** | Kingella | -0.29 | 0.00 |
| **Kingella** | Oribacterium | -0.29 | 0.01 |
| **Oribacterium** | Cardiobacterium | -0.25 | 0.01 |
| **Cardiobacterium** | Oribacterium | -0.25 | 0.01 |
| **Porphyromonas** | Neisseria | 0.31 | 0.01 |
| **Neisseria** | Campylobacter | -0.38 | 0.01 |
| **Campylobacter** | Neisseria | -0.38 | 0.01 |
| **Actinomyces** | Cardiobacterium | 0.29 | 0.01 |
| **Rothia** | Cardiobacterium | 0.32 | 0.01 |
| **Neisseria** | Porphyromonas | 0.31 | 0.01 |
| **Rothia** | Fusobacterium | -0.36 | 0.01 |
| **Tannerella** | Haemophilus | -0.33 | 0.01 |
| **Porphyromonas** | Campylobacter | -0.47 | 0.01 |
| **Fusobacterium** | Cardiobacterium | -0.24 | 0.01 |
| **Rothia** | Oribacterium | -0.29 | 0.01 |
| **Fusobacterium** | Kingella | -0.29 | 0.01 |
| **Cardiobacterium** | Rothia | 0.32 | 0.01 |
| **Oribacterium** | Rothia | -0.29 | 0.01 |
| **Cardiobacterium** | Actinomyces | 0.29 | 0.01 |
| **Fusobacterium** | Actinomyces | -0.26 | 0.01 |
| **Campylobacter** | Porphyromonas | -0.47 | 0.02 |
| **Tannerella** | Selenomonas | 0.32 | 0.02 |
| **Actinomyces** | Kingella | 0.20 | 0.02 |
| **Actinomyces** | Fusobacterium | -0.26 | 0.02 |
| **Cardiobacterium** | Fusobacterium | -0.24 | 0.02 |
| **Kingella** | Fusobacterium | -0.29 | 0.02 |
| **Streptococcus** | Actinomyces | 0.23 | 0.02 |
| **Veillonella** | Oribacterium | 0.29 | 0.02 |
| **Kingella** | Actinomyces | 0.20 | 0.02 |
| **Tannerella** | Corynebacterium | 0.38 | 0.02 |
| **Fusobacterium** | Corynebacterium | -0.29 | 0.02 |
| **Actinomyces** | Corynebacterium | 0.22 | 0.02 |
| **Corynebacterium** | Actinomyces | 0.22 | 0.02 |
| **Selenomonas** | Actinomyces | 0.26 | 0.02 |
| **Haemophilus** | Tannerella | -0.33 | 0.02 |
| **Streptococcus** | Kingella | 0.28 | 0.02 |
| **Corynebacterium** | Fusobacterium | -0.29 | 0.02 |
| **Streptococcus** | Fusobacterium | -0.31 | 0.02 |
| **Porphyromonas** | Prevotella | -0.40 | 0.03 |
| **Rothia** | Kingella | 0.20 | 0.03 |
| **Selenomonas** | Tannerella | 0.32 | 0.03 |
| **Oribacterium** | Veillonella | 0.29 | 0.03 |
| **Actinomyces** | Selenomonas | 0.26 | 0.03 |
| **Oribacterium** | Haemophilus | 0.26 | 0.03 |
| **Treponema** | Haemophilus | -0.32 | 0.03 |
| **Haemophilus** | Oribacterium | 0.26 | 0.03 |
| **Prevotella** | Porphyromonas | -0.40 | 0.03 |
| **Rothia** | Corynebacterium | 0.25 | 0.03 |
| **Corynebacterium** | Tannerella | 0.38 | 0.03 |
| **Alloprevotella** | Porphyromonas | 0.35 | 0.03 |
| **Kingella** | Rothia | 0.20 | 0.04 |
| **Corynebacterium** | Rothia | 0.25 | 0.04 |
| **Actinomyces** | Streptococcus | 0.23 | 0.04 |
| **Alloprevotella** | Streptococcus | -0.33 | 0.04 |
| **Kingella** | Streptococcus | 0.28 | 0.04 |
| **Fusobacterium** | Streptococcus | -0.31 | 0.04 |
| **Tannerella** | Kingella | 0.24 | 0.05 |
| **Fusobacterium** | Selenomonas | -0.23 | 0.05 |
| **Selenomonas** | Fusobacterium | -0.23 | 0.05 |
| **Prevotella** | Corynebacterium | -0.29 | 0.06 |
| **Streptococcus** | Oribacterium | -0.31 | 0.06 |
| **Actinomyces** | Oribacterium | -0.19 | 0.06 |
| **Alloprevotella** | Rothia | -0.27 | 0.06 |
| **Oribacterium** | Actinomyces | -0.19 | 0.07 |
| **Veillonella** | Corynebacterium | -0.34 | 0.07 |
| **Streptococcus** | Haemophilus | -0.29 | 0.07 |
| **Gemella** | Streptococcus | 0.38 | 0.08 |
| **Oribacterium** | Streptococcus | -0.31 | 0.08 |
| **Haemophilus** | Streptococcus | -0.29 | 0.08 |
| **Porphyromonas** | Alloprevotella | 0.35 | 0.08 |
| **Streptococcus** | Alloprevotella | -0.33 | 0.08 |
| **Haemophilus** | Treponema | -0.32 | 0.08 |
| **Bergeyella** | Actinomyces | -0.28 | 0.09 |
| **Corynebacterium** | Prevotella | -0.29 | 0.09 |
| **Porphyromonas** | Streptococcus | -0.25 | 0.09 |
| **Kingella** | Tannerella | 0.24 | 0.09 |
| **Prevotella** | Rothia | -0.34 | 0.09 |
| **Prevotella** | Cardiobacterium | -0.25 | 0.09 |
| **Fusobacterium** | Haemophilus | 0.09 | 0.10 |
| **Campylobacter** | Rothia | -0.22 | 0.10 |
| **Cardiobacterium** | Prevotella | -0.25 | 0.10 |
| **Rothia** | Prevotella | -0.34 | 0.10 |
| **Campylobacter** | Corynebacterium | -0.20 | 0.11 |
| **Corynebacterium** | Veillonella | -0.34 | 0.12 |
| **Haemophilus** | Fusobacterium | 0.09 | 0.12 |
| **Fusobacterium** | Oribacterium | 0.15 | 0.12 |
| **Streptococcus** | Corynebacterium | 0.18 | 0.12 |
| **Treponema** | Corynebacterium | 0.20 | 0.13 |
| **Cardiobacterium** | Streptococcus | 0.14 | 0.13 |
| **Neisseria** | Streptococcus | -0.35 | 0.13 |
| **Streptococcus** | Porphyromonas | -0.25 | 0.13 |
| **Rothia** | Haemophilus | -0.15 | 0.13 |
| **Haemophilus** | Rothia | -0.15 | 0.13 |
| **Corynebacterium** | Streptococcus | 0.18 | 0.13 |
| **Bergeyella** | Selenomonas | -0.20 | 0.13 |
| **Rothia** | Alloprevotella | -0.27 | 0.14 |
| **Streptococcus** | Cardiobacterium | 0.14 | 0.14 |
| **Oribacterium** | Fusobacterium | 0.15 | 0.14 |
| **Porphyromonas** | Fusobacterium | 0.18 | 0.14 |
| **Porphyromonas** | Actinomyces | -0.23 | 0.15 |
| **Alloprevotella** | Veillonella | -0.31 | 0.15 |
| **Rothia** | Campylobacter | -0.22 | 0.16 |
| **Neisseria** | Oribacterium | -0.21 | 0.17 |
| **Selenomonas** | Oribacterium | -0.08 | 0.17 |
| **Corynebacterium** | Campylobacter | -0.20 | 0.17 |
| **Tannerella** | Cardiobacterium | 0.15 | 0.18 |
| **Treponema** | Kingella | 0.18 | 0.18 |
| **Bergeyella** | Gemella | 0.32 | 0.18 |
| **Streptococcus** | Gemella | 0.38 | 0.18 |
| **Campylobacter** | Cardiobacterium | -0.10 | 0.19 |
| **Veillonella** | Cardiobacterium | -0.21 | 0.19 |
| **Gemella** | Campylobacter | -0.25 | 0.19 |
| **Actinomyces** | Porphyromonas | -0.23 | 0.20 |
| **Fusobacterium** | Porphyromonas | 0.18 | 0.20 |
| **Oribacterium** | Selenomonas | -0.08 | 0.20 |
| **Treponema** | Selenomonas | 0.11 | 0.20 |
| **Gemella** | Selenomonas | -0.18 | 0.21 |
| **Gemella** | Bergeyella | 0.32 | 0.21 |
| **Gemella** | Rothia | 0.20 | 0.22 |
| **Campylobacter** | Kingella | -0.19 | 0.22 |
| **Prevotella** | Kingella | -0.16 | 0.22 |
| **Veillonella** | Alloprevotella | -0.31 | 0.24 |
| **Streptococcus** | Neisseria | -0.35 | 0.24 |
| **Cardiobacterium** | Campylobacter | -0.10 | 0.25 |
| **Selenomonas** | Rothia | 0.11 | 0.27 |
| **Kingella** | Campylobacter | -0.19 | 0.27 |
| **Alloprevotella** | Fusobacterium | 0.09 | 0.27 |
| **Bergeyella** | Fusobacterium | 0.16 | 0.27 |
| **Bergeyella** | Haemophilus | 0.08 | 0.28 |
| **Porphyromonas** | Selenomonas | -0.20 | 0.28 |
| **Rothia** | Selenomonas | 0.11 | 0.28 |
| **Cardiobacterium** | Veillonella | -0.21 | 0.29 |
| **Tannerella** | Oribacterium | -0.11 | 0.29 |
| **Bergeyella** | Neisseria | 0.17 | 0.30 |
| **Oribacterium** | Neisseria | -0.21 | 0.30 |
| **Tannerella** | Veillonella | -0.25 | 0.30 |
| **Cardiobacterium** | Tannerella | 0.15 | 0.30 |
| **Actinomyces** | Bergeyella | -0.28 | 0.30 |
| **Selenomonas** | Bergeyella | -0.20 | 0.30 |
| **Kingella** | Prevotella | -0.16 | 0.31 |
| **Porphyromonas** | Rothia | -0.18 | 0.32 |
| **Neisseria** | Actinomyces | -0.22 | 0.34 |
| **Neisseria** | Haemophilus | 0.20 | 0.34 |
| **Porphyromonas** | Haemophilus | 0.11 | 0.34 |
| **Gemella** | Prevotella | -0.19 | 0.34 |
| **Corynebacterium** | Treponema | 0.20 | 0.36 |
| **Kingella** | Treponema | 0.18 | 0.36 |
| **Selenomonas** | Treponema | 0.11 | 0.36 |
| **Veillonella** | Streptococcus | 0.25 | 0.36 |
| **Porphyromonas** | Kingella | -0.15 | 0.37 |
| **Veillonella** | Tannerella | -0.25 | 0.38 |
| **Alloprevotella** | Cardiobacterium | -0.19 | 0.38 |
| **Selenomonas** | Porphyromonas | -0.20 | 0.39 |
| **Bergeyella** | Prevotella | -0.14 | 0.40 |
| **Haemophilus** | Porphyromonas | 0.11 | 0.42 |
| **Kingella** | Porphyromonas | -0.15 | 0.42 |
| **Rothia** | Porphyromonas | -0.18 | 0.42 |
| **Gemella** | Oribacterium | -0.06 | 0.43 |
| **Porphyromonas** | Oribacterium | -0.13 | 0.43 |
| **Treponema** | Oribacterium | -0.07 | 0.43 |
| **Veillonella** | Kingella | -0.06 | 0.43 |
| **Campylobacter** | Gemella | -0.25 | 0.43 |
| **Neisseria** | Bergeyella | 0.17 | 0.44 |
| **Veillonella** | Selenomonas | -0.18 | 0.45 |
| **Alloprevotella** | Treponema | 0.14 | 0.46 |
| **Bergeyella** | Campylobacter | -0.09 | 0.46 |
| **Bergeyella** | Treponema | -0.12 | 0.46 |
| **Gemella** | Treponema | -0.16 | 0.46 |
| **Alloprevotella** | Tannerella | 0.15 | 0.46 |
| **Oribacterium** | Tannerella | -0.11 | 0.46 |
| **Streptococcus** | Veillonella | 0.25 | 0.46 |
| **Bergeyella** | Porphyromonas | 0.03 | 0.47 |
| **Rothia** | Gemella | 0.20 | 0.47 |
| **Selenomonas** | Gemella | -0.18 | 0.47 |
| **Porphyromonas** | Cardiobacterium | -0.14 | 0.47 |
| **Alloprevotella** | Kingella | -0.10 | 0.48 |
| **Cardiobacterium** | Porphyromonas | -0.14 | 0.48 |
| **Oribacterium** | Porphyromonas | -0.13 | 0.48 |
| **Treponema** | Veillonella | -0.18 | 0.48 |
| **Gemella** | Tannerella | -0.08 | 0.48 |
| **Kingella** | Veillonella | -0.06 | 0.49 |
| **Selenomonas** | Veillonella | -0.18 | 0.49 |
| **Actinomyces** | Neisseria | -0.22 | 0.49 |
| **Haemophilus** | Neisseria | 0.20 | 0.50 |
| **Fusobacterium** | Alloprevotella | 0.09 | 0.50 |
| **Treponema** | Alloprevotella | 0.14 | 0.50 |
| **Haemophilus** | Bergeyella | 0.08 | 0.51 |
| **Fusobacterium** | Bergeyella | 0.16 | 0.51 |
| **Treponema** | Bergeyella | -0.12 | 0.51 |
| **Prevotella** | Gemella | -0.19 | 0.51 |
| **Treponema** | Gemella | -0.16 | 0.51 |
| **Treponema** | Cardiobacterium | 0.00 | 0.51 |
| **Gemella** | Alloprevotella | -0.13 | 0.52 |
| **Tannerella** | Alloprevotella | 0.15 | 0.52 |
| **Alloprevotella** | Gemella | -0.13 | 0.52 |
| **Bergeyella** | Veillonella | -0.11 | 0.53 |
| **Tannerella** | Gemella | -0.08 | 0.53 |
| **Prevotella** | Bergeyella | -0.14 | 0.53 |
| **Bergeyella** | Cardiobacterium | -0.04 | 0.53 |
| **Campylobacter** | Bergeyella | -0.09 | 0.55 |
| **Neisseria** | Cardiobacterium | 0.10 | 0.55 |
| **Campylobacter** | Streptococcus | -0.15 | 0.56 |
| **Cardiobacterium** | Alloprevotella | -0.19 | 0.57 |
| **Alloprevotella** | Bergeyella | -0.14 | 0.57 |
| **Porphyromonas** | Bergeyella | 0.03 | 0.57 |
| **Tannerella** | Bergeyella | -0.07 | 0.57 |
| **Veillonella** | Bergeyella | -0.11 | 0.57 |
| **Veillonella** | Treponema | -0.18 | 0.57 |
| **Alloprevotella** | Actinomyces | -0.01 | 0.59 |
| **Campylobacter** | Actinomyces | -0.07 | 0.59 |
| **Prevotella** | Actinomyces | -0.13 | 0.59 |
| **Veillonella** | Haemophilus | 0.08 | 0.59 |
| **Haemophilus** | Veillonella | 0.08 | 0.59 |
| **Tannerella** | Actinomyces | -0.01 | 0.59 |
| **Treponema** | Actinomyces | 0.03 | 0.59 |
| **Bergeyella** | Tannerella | -0.07 | 0.60 |
| **Bergeyella** | Corynebacterium | -0.04 | 0.60 |
| **Neisseria** | Corynebacterium | 0.12 | 0.60 |
| **Porphyromonas** | Corynebacterium | -0.15 | 0.62 |
| **Actinomyces** | Campylobacter | -0.07 | 0.62 |
| **Streptococcus** | Campylobacter | -0.15 | 0.62 |
| **Fusobacterium** | Campylobacter | 0.12 | 0.62 |
| **Gemella** | Cardiobacterium | -0.11 | 0.62 |
| **Campylobacter** | Fusobacterium | 0.12 | 0.62 |
| **Gemella** | Corynebacterium | -0.10 | 0.62 |
| **Neisseria** | Treponema | -0.23 | 0.63 |
| **Oribacterium** | Treponema | -0.07 | 0.63 |
| **Alloprevotella** | Corynebacterium | -0.10 | 0.63 |
| **Cardiobacterium** | Bergeyella | -0.04 | 0.64 |
| **Corynebacterium** | Bergeyella | -0.04 | 0.64 |
| **Streptococcus** | Selenomonas | -0.08 | 0.65 |
| **Selenomonas** | Streptococcus | -0.08 | 0.65 |
| **Corynebacterium** | Porphyromonas | -0.15 | 0.65 |
| **Oribacterium** | Gemella | -0.06 | 0.67 |
| **Treponema** | Neisseria | -0.23 | 0.67 |
| **Cardiobacterium** | Treponema | 0.00 | 0.67 |
| **Bergeyella** | Alloprevotella | -0.14 | 0.68 |
| **Kingella** | Alloprevotella | -0.10 | 0.68 |
| **Alloprevotella** | Haemophilus | -0.20 | 0.68 |
| **Campylobacter** | Haemophilus | -0.02 | 0.68 |
| **Gemella** | Haemophilus | 0.01 | 0.68 |
| **Prevotella** | Haemophilus | -0.07 | 0.68 |
| **Neisseria** | Selenomonas | -0.15 | 0.68 |
| **Tannerella** | Rothia | -0.20 | 0.69 |
| **Actinomyces** | Alloprevotella | -0.01 | 0.69 |
| **Neisseria** | Alloprevotella | 0.01 | 0.69 |
| **Gemella** | Actinomyces | 0.10 | 0.71 |
| **Actinomyces** | Prevotella | -0.13 | 0.71 |
| **Alloprevotella** | Neisseria | 0.01 | 0.71 |
| **Cardiobacterium** | Neisseria | 0.10 | 0.71 |
| **Corynebacterium** | Neisseria | 0.12 | 0.71 |
| **Selenomonas** | Neisseria | -0.15 | 0.71 |
| **Tannerella** | Neisseria | -0.14 | 0.71 |
| **Fusobacterium** | Neisseria | 0.00 | 0.71 |
| **Treponema** | Rothia | -0.10 | 0.72 |
| **Bergeyella** | Kingella | 0.05 | 0.73 |
| **Kingella** | Bergeyella | 0.05 | 0.75 |
| **Rothia** | Bergeyella | -0.06 | 0.75 |
| **Bergeyella** | Rothia | -0.06 | 0.75 |
| **Gemella** | Fusobacterium | 0.16 | 0.76 |
| **Neisseria** | Fusobacterium | 0.00 | 0.76 |
| **Actinomyces** | Treponema | 0.03 | 0.76 |
| **Neisseria** | Kingella | -0.13 | 0.76 |
| **Gemella** | Porphyromonas | 0.02 | 0.77 |
| **Tannerella** | Porphyromonas | -0.09 | 0.77 |
| **Treponema** | Porphyromonas | 0.08 | 0.77 |
| **Haemophilus** | Campylobacter | -0.02 | 0.77 |
| **Prevotella** | Streptococcus | -0.05 | 0.78 |
| **Prevotella** | Fusobacterium | -0.05 | 0.78 |
| **Veillonella** | Fusobacterium | -0.10 | 0.78 |
| **Alloprevotella** | Selenomonas | 0.07 | 0.78 |
| **Campylobacter** | Selenomonas | 0.00 | 0.78 |
| **Prevotella** | Selenomonas | 0.03 | 0.78 |
| **Alloprevotella** | Campylobacter | -0.08 | 0.79 |
| **Actinomyces** | Tannerella | -0.01 | 0.79 |
| **Rothia** | Tannerella | -0.20 | 0.79 |
| **Campylobacter** | Alloprevotella | -0.08 | 0.79 |
| **Corynebacterium** | Alloprevotella | -0.10 | 0.79 |
| **Haemophilus** | Alloprevotella | -0.20 | 0.79 |
| **Fusobacterium** | Veillonella | -0.10 | 0.80 |
| **Oribacterium** | Bergeyella | -0.05 | 0.80 |
| **Bergeyella** | Oribacterium | -0.05 | 0.80 |
| **Neisseria** | Tannerella | -0.14 | 0.81 |
| **Kingella** | Neisseria | -0.13 | 0.81 |
| **Rothia** | Treponema | -0.10 | 0.81 |
| **Actinomyces** | Gemella | 0.10 | 0.81 |
| **Cardiobacterium** | Gemella | -0.11 | 0.81 |
| **Corynebacterium** | Gemella | -0.10 | 0.81 |
| **Haemophilus** | Gemella | 0.01 | 0.81 |
| **Porphyromonas** | Gemella | 0.02 | 0.81 |
| **Fusobacterium** | Gemella | 0.16 | 0.81 |
| **Haemophilus** | Prevotella | -0.07 | 0.83 |
| **Selenomonas** | Prevotella | 0.03 | 0.83 |
| **Streptococcus** | Prevotella | -0.05 | 0.83 |
| **Tannerella** | Prevotella | -0.04 | 0.83 |
| **Fusobacterium** | Prevotella | -0.05 | 0.83 |
| **Alloprevotella** | Oribacterium | -0.01 | 0.86 |
| **Selenomonas** | Campylobacter | 0.00 | 0.86 |
| **Tannerella** | Campylobacter | 0.12 | 0.86 |
| **Treponema** | Campylobacter | 0.08 | 0.86 |
| **Selenomonas** | Alloprevotella | 0.07 | 0.86 |
| **Treponema** | Prevotella | -0.06 | 0.86 |
| **Veillonella** | Actinomyces | 0.05 | 0.87 |
| **Actinomyces** | Veillonella | 0.05 | 0.87 |
| **Gemella** | Veillonella | -0.08 | 0.87 |
| **Rothia** | Veillonella | 0.03 | 0.87 |
| **Streptococcus** | Bergeyella | 0.00 | 0.88 |
| **Bergeyella** | Streptococcus | 0.00 | 0.90 |
| **Tannerella** | Streptococcus | 0.04 | 0.90 |
| **Treponema** | Streptococcus | 0.02 | 0.90 |
| **Campylobacter** | Treponema | 0.08 | 0.90 |
| **Porphyromonas** | Treponema | 0.08 | 0.90 |
| **Prevotella** | Treponema | -0.06 | 0.90 |
| **Streptococcus** | Treponema | 0.02 | 0.90 |
| **Fusobacterium** | Treponema | 0.08 | 0.90 |
| **Oribacterium** | Alloprevotella | -0.01 | 0.90 |
| **Porphyromonas** | Tannerella | -0.09 | 0.90 |
| **Prevotella** | Tannerella | -0.04 | 0.90 |
| **Veillonella** | Rothia | 0.03 | 0.91 |
| **Gemella** | Kingella | -0.02 | 0.91 |
| **Treponema** | Fusobacterium | 0.08 | 0.92 |
| **Campylobacter** | Tannerella | 0.12 | 0.92 |
| **Streptococcus** | Tannerella | 0.04 | 0.92 |
| **Veillonella** | Gemella | -0.08 | 0.95 |
| **Fusobacterium** | Tannerella | 0.12 | 0.95 |
| **Tannerella** | Fusobacterium | 0.12 | 0.95 |
| **Kingella** | Gemella | -0.02 | 0.96 |
| **Neisseria** | Gemella | -0.14 | 0.96 |
| **Prevotella** | Alloprevotella | 0.05 | 0.96 |
| **Alloprevotella** | Prevotella | 0.05 | 0.96 |
| **Gemella** | Neisseria | -0.14 | 0.98 |
| **Rothia** | Neisseria | -0.04 | 0.98 |
| **Neisseria** | Rothia | -0.04 | 0.98 |

**Appendix Table 8. Relative abundance correlations of most abundant genera in control SP**

|  |  |  |  |
| --- | --- | --- | --- |
| Appendix Table 8. Relative abundance correlations of most abundant genera in control SP | | | |
| **var1** | **var2** | **rho** | **qvalue** |
| **Streptococcus** | Haemophilus | 0.67 | 8.9E-09 |
| **Haemophilus** | Streptococcus | 0.67 | 8.9E-09 |
| **Neisseria** | Bergeyella | 0.50 | 1.3E-06 |
| **Bergeyella** | Neisseria | 0.50 | 1.3E-06 |
| **Selenomonas** | Streptococcus | -0.54 | 1.7E-06 |
| **Streptococcus** | Selenomonas | -0.54 | 2.5E-06 |
| **Tannerella** | Streptococcus | -0.48 | 2.9E-06 |
| **Treponema** | Streptococcus | -0.53 | 2.9E-06 |
| **Gemella** | Haemophilus | 0.52 | 3.6E-06 |
| **Prevotella** | Bergeyella | -0.49 | 4.8E-06 |
| **Prevotella** | Neisseria | -0.52 | 5.2E-06 |
| **Bergeyella** | Prevotella | -0.49 | 5.2E-06 |
| **Neisseria** | Prevotella | -0.52 | 5.2E-06 |
| **Haemophilus** | Gemella | 0.52 | 5.3E-06 |
| **Streptococcus** | Tannerella | -0.48 | 6.2E-06 |
| **Streptococcus** | Treponema | -0.53 | 7.2E-06 |
| **Treponema** | Haemophilus | -0.48 | 8.6E-06 |
| **Selenomonas** | Haemophilus | -0.45 | 9.2E-06 |
| **Veillonella** | Streptococcus | 0.55 | 9.4E-06 |
| **Tannerella** | Haemophilus | -0.43 | 9.6E-06 |
| **Haemophilus** | Treponema | -0.48 | 1.2E-05 |
| **Tannerella** | Treponema | 0.51 | 1.3E-05 |
| **Haemophilus** | Tannerella | -0.43 | 1.4E-05 |
| **Treponema** | Tannerella | 0.51 | 1.4E-05 |
| **Haemophilus** | Selenomonas | -0.45 | 1.5E-05 |
| **Bergeyella** | Treponema | -0.48 | 1.8E-05 |
| **Rothia** | Veillonella | 0.49 | 1.9E-05 |
| **Streptococcus** | Veillonella | 0.55 | 1.9E-05 |
| **Treponema** | Bergeyella | -0.48 | 2.3E-05 |
| **Veillonella** | Rothia | 0.49 | 2.3E-05 |
| **Alloprevotella** | Treponema | 0.37 | 3.5E-05 |
| **Neisseria** | Treponema | -0.52 | 3.7E-05 |
| **Campylobacter** | Haemophilus | -0.47 | 4.5E-05 |
| **Gemella** | Bergeyella | 0.42 | 5.5E-05 |
| **Veillonella** | Tannerella | -0.43 | 5.9E-05 |
| **Treponema** | Neisseria | -0.52 | 6.5E-05 |
| **Tannerella** | Veillonella | -0.43 | 7.4E-05 |
| **Bergeyella** | Haemophilus | 0.38 | 8.8E-05 |
| **Bergeyella** | Gemella | 0.42 | 9.1E-05 |
| **Gemella** | Streptococcus | 0.43 | 9.5E-05 |
| **Treponema** | Alloprevotella | 0.37 | 1.1E-04 |
| **Haemophilus** | Bergeyella | 0.38 | 1.2E-04 |
| **Oribacterium** | Neisseria | -0.38 | 1.3E-04 |
| **Haemophilus** | Campylobacter | -0.47 | 1.6E-04 |
| **Streptococcus** | Gemella | 0.43 | 0.00 |
| **Alloprevotella** | Streptococcus | -0.33 | 0.00 |
| **Prevotella** | Treponema | 0.32 | 0.00 |
| **Gemella** | Treponema | -0.37 | 0.00 |
| **Campylobacter** | Gemella | -0.35 | 0.00 |
| **Neisseria** | Gemella | 0.38 | 0.00 |
| **Selenomonas** | Gemella | -0.36 | 0.00 |
| **Gemella** | Neisseria | 0.38 | 0.00 |
| **Treponema** | Gemella | -0.37 | 0.00 |
| **Bergeyella** | Streptococcus | 0.44 | 0.00 |
| **Oribacterium** | Bergeyella | -0.33 | 0.00 |
| **Alloprevotella** | Haemophilus | -0.32 | 0.00 |
| **Veillonella** | Treponema | -0.47 | 0.00 |
| **Streptococcus** | Bergeyella | 0.44 | 0.00 |
| **Rothia** | Streptococcus | 0.43 | 0.00 |
| **Kingella** | Treponema | -0.37 | 0.00 |
| **Selenomonas** | Treponema | 0.29 | 0.00 |
| **Selenomonas** | Tannerella | 0.32 | 0.00 |
| **Neisseria** | Oribacterium | -0.38 | 0.00 |
| **Campylobacter** | Neisseria | -0.37 | 0.00 |
| **Kingella** | Prevotella | -0.36 | 0.00 |
| **Treponema** | Prevotella | 0.32 | 0.00 |
| **Gemella** | Selenomonas | -0.36 | 0.00 |
| **Tannerella** | Selenomonas | 0.32 | 0.00 |
| **Neisseria** | Haemophilus | 0.38 | 0.00 |
| **Streptococcus** | Alloprevotella | -0.33 | 0.00 |
| **Haemophilus** | Neisseria | 0.38 | 0.00 |
| **Tannerella** | Gemella | -0.33 | 0.00 |
| **Veillonella** | Haemophilus | 0.36 | 0.00 |
| **Alloprevotella** | Bergeyella | -0.30 | 0.00 |
| **Gemella** | Campylobacter | -0.35 | 0.00 |
| **Selenomonas** | Bergeyella | -0.38 | 0.00 |
| **Treponema** | Veillonella | -0.47 | 0.00 |
| **Treponema** | Selenomonas | 0.29 | 0.00 |
| **Neisseria** | Campylobacter | -0.37 | 0.00 |
| **Haemophilus** | Alloprevotella | -0.32 | 0.00 |
| **Bergeyella** | Oribacterium | -0.33 | 0.00 |
| **Fusobacterium** | Neisseria | -0.42 | 0.00 |
| **Gemella** | Tannerella | -0.33 | 0.00 |
| **Kingella** | Bergeyella | 0.38 | 0.00 |
| **Prevotella** | Haemophilus | -0.36 | 0.00 |
| **Alloprevotella** | Selenomonas | 0.35 | 0.00 |
| **Bergeyella** | Selenomonas | -0.38 | 0.00 |
| **Prevotella** | Kingella | -0.36 | 0.00 |
| **Oribacterium** | Prevotella | 0.32 | 0.00 |
| **Bergeyella** | Alloprevotella | -0.30 | 0.00 |
| **Haemophilus** | Veillonella | 0.36 | 0.00 |
| **Prevotella** | Selenomonas | 0.43 | 0.00 |
| **Alloprevotella** | Prevotella | 0.26 | 0.00 |
| **Haemophilus** | Prevotella | -0.36 | 0.00 |
| **Selenomonas** | Prevotella | 0.43 | 0.00 |
| **Selenomonas** | Alloprevotella | 0.35 | 0.00 |
| **Streptococcus** | Rothia | 0.43 | 0.00 |
| **Veillonella** | Selenomonas | -0.32 | 0.00 |
| **Treponema** | Kingella | -0.37 | 0.00 |
| **Prevotella** | Alloprevotella | 0.26 | 0.00 |
| **Prevotella** | Oribacterium | 0.32 | 0.00 |
| **Campylobacter** | Treponema | 0.25 | 0.00 |
| **Rothia** | Tannerella | -0.31 | 0.00 |
| **Campylobacter** | Streptococcus | -0.29 | 0.00 |
| **Selenomonas** | Veillonella | -0.32 | 0.00 |
| **Campylobacter** | Bergeyella | -0.21 | 0.00 |
| **Bergeyella** | Kingella | 0.38 | 0.00 |
| **Prevotella** | Streptococcus | -0.30 | 0.00 |
| **Kingella** | Alloprevotella | -0.22 | 0.00 |
| **Oribacterium** | Campylobacter | 0.31 | 0.00 |
| **Streptococcus** | Campylobacter | -0.29 | 0.00 |
| **Fusobacterium** | Campylobacter | 0.40 | 0.00 |
| **Treponema** | Campylobacter | 0.25 | 0.00 |
| **Gemella** | Prevotella | -0.25 | 0.00 |
| **Streptococcus** | Prevotella | -0.30 | 0.00 |
| **Fusobacterium** | Prevotella | 0.30 | 0.00 |
| **Bergeyella** | Campylobacter | -0.21 | 0.00 |
| **Prevotella** | Gemella | -0.25 | 0.00 |
| **Neisseria** | Alloprevotella | -0.24 | 0.00 |
| **Veillonella** | Alloprevotella | -0.30 | 0.00 |
| **Alloprevotella** | Neisseria | -0.24 | 0.00 |
| **Tannerella** | Bergeyella | -0.30 | 0.00 |
| **Gemella** | Alloprevotella | -0.24 | 0.00 |
| **Alloprevotella** | Gemella | -0.24 | 0.00 |
| **Alloprevotella** | Veillonella | -0.30 | 0.00 |
| **Neisseria** | Fusobacterium | -0.42 | 0.00 |
| **Tannerella** | Rothia | -0.31 | 0.00 |
| **Alloprevotella** | Kingella | -0.22 | 0.00 |
| **Fusobacterium** | Kingella | -0.34 | 0.00 |
| **Rothia** | Treponema | -0.31 | 0.00 |
| **Fusobacterium** | Treponema | 0.22 | 0.00 |
| **Rothia** | Haemophilus | 0.29 | 0.00 |
| **Kingella** | Neisseria | 0.26 | 0.00 |
| **Kingella** | Streptococcus | 0.36 | 0.00 |
| **Campylobacter** | Oribacterium | 0.31 | 0.00 |
| **Bergeyella** | Tannerella | -0.30 | 0.00 |
| **Neisseria** | Streptococcus | 0.25 | 0.00 |
| **Campylobacter** | Fusobacterium | 0.40 | 0.00 |
| **Kingella** | Fusobacterium | -0.34 | 0.00 |
| **Fusobacterium** | Oribacterium | 0.30 | 0.00 |
| **Tannerella** | Alloprevotella | 0.18 | 0.00 |
| **Streptococcus** | Neisseria | 0.25 | 0.00 |
| **Rothia** | Selenomonas | -0.33 | 0.00 |
| **Oribacterium** | Fusobacterium | 0.30 | 0.00 |
| **Prevotella** | Fusobacterium | 0.30 | 0.00 |
| **Campylobacter** | Alloprevotella | 0.23 | 0.00 |
| **Alloprevotella** | Tannerella | 0.18 | 0.01 |
| **Oribacterium** | Treponema | 0.18 | 0.01 |
| **Oribacterium** | Alloprevotella | 0.25 | 0.01 |
| **Neisseria** | Kingella | 0.26 | 0.01 |
| **Oribacterium** | Gemella | -0.22 | 0.01 |
| **Streptococcus** | Kingella | 0.36 | 0.01 |
| **Porphyromonas** | Neisseria | 0.37 | 0.01 |
| **Tannerella** | Neisseria | -0.32 | 0.01 |
| **Actinomyces** | Rothia | 0.36 | 0.01 |
| **Haemophilus** | Rothia | 0.29 | 0.01 |
| **Selenomonas** | Rothia | -0.33 | 0.01 |
| **Treponema** | Rothia | -0.31 | 0.01 |
| **Fusobacterium** | Bergeyella | -0.26 | 0.01 |
| **Alloprevotella** | Campylobacter | 0.23 | 0.01 |
| **Selenomonas** | Neisseria | -0.25 | 0.01 |
| **Actinomyces** | Veillonella | 0.43 | 0.01 |
| **Treponema** | Fusobacterium | 0.22 | 0.01 |
| **Neisseria** | Tannerella | -0.32 | 0.01 |
| **Neisseria** | Selenomonas | -0.25 | 0.01 |
| **Campylobacter** | Tannerella | 0.19 | 0.01 |
| **Tannerella** | Campylobacter | 0.19 | 0.01 |
| **Rothia** | Alloprevotella | -0.20 | 0.01 |
| **Fusobacterium** | Alloprevotella | 0.19 | 0.01 |
| **Kingella** | Haemophilus | 0.25 | 0.01 |
| **Alloprevotella** | Oribacterium | 0.25 | 0.01 |
| **Gemella** | Oribacterium | -0.22 | 0.01 |
| **Treponema** | Oribacterium | 0.18 | 0.01 |
| **Campylobacter** | Prevotella | 0.13 | 0.01 |
| **Oribacterium** | Haemophilus | -0.16 | 0.01 |
| **Bergeyella** | Fusobacterium | -0.26 | 0.01 |
| **Prevotella** | Campylobacter | 0.13 | 0.01 |
| **Haemophilus** | Kingella | 0.25 | 0.01 |
| **Haemophilus** | Oribacterium | -0.16 | 0.02 |
| **Kingella** | Oribacterium | -0.18 | 0.02 |
| **Porphyromonas** | Actinomyces | -0.41 | 0.02 |
| **Rothia** | Actinomyces | 0.36 | 0.02 |
| **Veillonella** | Actinomyces | 0.43 | 0.02 |
| **Alloprevotella** | Rothia | -0.20 | 0.02 |
| **Porphyromonas** | Oribacterium | -0.24 | 0.02 |
| **Alloprevotella** | Fusobacterium | 0.19 | 0.02 |
| **Oribacterium** | Kingella | -0.18 | 0.02 |
| **Oribacterium** | Streptococcus | -0.25 | 0.02 |
| **Fusobacterium** | Haemophilus | -0.21 | 0.02 |
| **Streptococcus** | Oribacterium | -0.25 | 0.02 |
| **Selenomonas** | Campylobacter | 0.14 | 0.02 |
| **Campylobacter** | Selenomonas | 0.14 | 0.02 |
| **Cardiobacterium** | Kingella | 0.39 | 0.02 |
| **Kingella** | Selenomonas | -0.15 | 0.02 |
| **Porphyromonas** | Bergeyella | 0.27 | 0.02 |
| **Veillonella** | Kingella | 0.26 | 0.02 |
| **Selenomonas** | Kingella | -0.15 | 0.02 |
| **Tannerella** | Prevotella | 0.11 | 0.02 |
| **Actinomyces** | Porphyromonas | -0.41 | 0.03 |
| **Neisseria** | Porphyromonas | 0.37 | 0.03 |
| **Prevotella** | Tannerella | 0.11 | 0.03 |
| **Kingella** | Veillonella | 0.26 | 0.03 |
| **Haemophilus** | Fusobacterium | -0.21 | 0.03 |
| **Cardiobacterium** | Prevotella | -0.33 | 0.04 |
| **Tannerella** | Kingella | -0.08 | 0.04 |
| **Kingella** | Tannerella | -0.08 | 0.04 |
| **Fusobacterium** | Streptococcus | -0.10 | 0.04 |
| **Oribacterium** | Porphyromonas | -0.24 | 0.05 |
| **Rothia** | Fusobacterium | -0.34 | 0.05 |
| **Porphyromonas** | Campylobacter | -0.23 | 0.05 |
| **Veillonella** | Campylobacter | -0.11 | 0.05 |
| **Rothia** | Kingella | 0.11 | 0.05 |
| **Fusobacterium** | Rothia | -0.34 | 0.05 |
| **Rothia** | Campylobacter | -0.17 | 0.06 |
| **Porphyromonas** | Prevotella | -0.25 | 0.06 |
| **Veillonella** | Gemella | 0.08 | 0.06 |
| **Veillonella** | Bergeyella | 0.13 | 0.06 |
| **Streptococcus** | Fusobacterium | -0.10 | 0.06 |
| **Oribacterium** | Selenomonas | 0.13 | 0.06 |
| **Campylobacter** | Veillonella | -0.11 | 0.06 |
| **Gemella** | Veillonella | 0.08 | 0.06 |
| **Selenomonas** | Oribacterium | 0.13 | 0.07 |
| **Bergeyella** | Porphyromonas | 0.27 | 0.07 |
| **Kingella** | Rothia | 0.11 | 0.07 |
| **Bergeyella** | Veillonella | 0.13 | 0.07 |
| **Campylobacter** | Rothia | -0.17 | 0.08 |
| **Cardiobacterium** | Fusobacterium | -0.23 | 0.08 |
| **Gemella** | Kingella | 0.04 | 0.08 |
| **Kingella** | Campylobacter | 0.00 | 0.08 |
| **Campylobacter** | Kingella | 0.00 | 0.08 |
| **Cardiobacterium** | Neisseria | 0.29 | 0.08 |
| **Kingella** | Gemella | 0.04 | 0.09 |
| **Fusobacterium** | Gemella | -0.07 | 0.09 |
| **Veillonella** | Prevotella | -0.06 | 0.09 |
| **Porphyromonas** | Gemella | 0.14 | 0.09 |
| **Fusobacterium** | Tannerella | 0.11 | 0.09 |
| **Gemella** | Fusobacterium | -0.07 | 0.09 |
| **Tannerella** | Fusobacterium | 0.11 | 0.09 |
| **Rothia** | Gemella | 0.08 | 0.09 |
| **Rothia** | Prevotella | -0.14 | 0.09 |
| **Veillonella** | Fusobacterium | -0.16 | 0.10 |
| **Prevotella** | Veillonella | -0.06 | 0.10 |
| **Fusobacterium** | Veillonella | -0.16 | 0.10 |
| **Corynebacterium** | Cardiobacterium | 0.25 | 0.11 |
| **Kingella** | Cardiobacterium | 0.39 | 0.11 |
| **Actinomyces** | Kingella | 0.24 | 0.12 |
| **Campylobacter** | Porphyromonas | -0.23 | 0.12 |
| **Gemella** | Rothia | 0.08 | 0.12 |
| **Prevotella** | Rothia | -0.14 | 0.12 |
| **Prevotella** | Porphyromonas | -0.25 | 0.13 |
| **Prevotella** | Cardiobacterium | -0.33 | 0.14 |
| **Corynebacterium** | Fusobacterium | -0.20 | 0.15 |
| **Actinomyces** | Tannerella | -0.19 | 0.16 |
| **Oribacterium** | Tannerella | 0.01 | 0.16 |
| **Veillonella** | Neisseria | 0.02 | 0.16 |
| **Cardiobacterium** | Corynebacterium | 0.25 | 0.16 |
| **Neisseria** | Veillonella | 0.02 | 0.17 |
| **Tannerella** | Oribacterium | 0.01 | 0.18 |
| **Corynebacterium** | Selenomonas | 0.27 | 0.18 |
| **Actinomyces** | Alloprevotella | -0.18 | 0.18 |
| **Gemella** | Porphyromonas | 0.14 | 0.18 |
| **Rothia** | Bergeyella | -0.02 | 0.19 |
| **Cardiobacterium** | Oribacterium | -0.10 | 0.20 |
| **Cardiobacterium** | Bergeyella | 0.17 | 0.20 |
| **Fusobacterium** | Cardiobacterium | -0.23 | 0.20 |
| **Actinomyces** | Streptococcus | 0.15 | 0.20 |
| **Porphyromonas** | Fusobacterium | -0.12 | 0.21 |
| **Bergeyella** | Rothia | -0.02 | 0.21 |
| **Porphyromonas** | Rothia | -0.32 | 0.21 |
| **Neisseria** | Cardiobacterium | 0.29 | 0.22 |
| **Rothia** | Neisseria | 0.03 | 0.22 |
| **Actinomyces** | Treponema | -0.18 | 0.23 |
| **Neisseria** | Rothia | 0.03 | 0.24 |
| **Porphyromonas** | Haemophilus | 0.12 | 0.26 |
| **Selenomonas** | Fusobacterium | -0.14 | 0.26 |
| **Corynebacterium** | Oribacterium | -0.16 | 0.28 |
| **Veillonella** | Oribacterium | -0.04 | 0.28 |
| **Fusobacterium** | Selenomonas | -0.14 | 0.29 |
| **Porphyromonas** | Treponema | -0.12 | 0.29 |
| **Oribacterium** | Veillonella | -0.04 | 0.30 |
| **Cardiobacterium** | Alloprevotella | -0.13 | 0.30 |
| **Corynebacterium** | Tannerella | 0.17 | 0.31 |
| **Cardiobacterium** | Treponema | -0.18 | 0.33 |
| **Corynebacterium** | Haemophilus | -0.20 | 0.33 |
| **Actinomyces** | Selenomonas | -0.10 | 0.34 |
| **Rothia** | Porphyromonas | -0.32 | 0.37 |
| **Fusobacterium** | Porphyromonas | -0.12 | 0.37 |
| **Rothia** | Oribacterium | -0.02 | 0.38 |
| **Actinomyces** | Oribacterium | 0.20 | 0.40 |
| **Haemophilus** | Porphyromonas | 0.12 | 0.40 |
| **Oribacterium** | Rothia | -0.02 | 0.40 |
| **Porphyromonas** | Alloprevotella | -0.05 | 0.41 |
| **Kingella** | Actinomyces | 0.24 | 0.42 |
| **Corynebacterium** | Kingella | 0.09 | 0.43 |
| **Alloprevotella** | Actinomyces | -0.18 | 0.43 |
| **Streptococcus** | Actinomyces | 0.15 | 0.43 |
| **Tannerella** | Actinomyces | -0.19 | 0.43 |
| **Treponema** | Actinomyces | -0.18 | 0.43 |
| **Actinomyces** | Fusobacterium | -0.10 | 0.44 |
| **Cardiobacterium** | Veillonella | -0.22 | 0.44 |
| **Treponema** | Porphyromonas | -0.12 | 0.44 |
| **Corynebacterium** | Streptococcus | -0.09 | 0.44 |
| **Bergeyella** | Cardiobacterium | 0.17 | 0.44 |
| **Oribacterium** | Cardiobacterium | -0.10 | 0.44 |
| **Corynebacterium** | Gemella | -0.11 | 0.45 |
| **Corynebacterium** | Veillonella | -0.09 | 0.47 |
| **Corynebacterium** | Alloprevotella | -0.14 | 0.52 |
| **Actinomyces** | Haemophilus | 0.04 | 0.53 |
| **Porphyromonas** | Selenomonas | -0.03 | 0.54 |
| **Corynebacterium** | Prevotella | -0.10 | 0.56 |
| **Porphyromonas** | Veillonella | -0.07 | 0.57 |
| **Actinomyces** | Neisseria | -0.19 | 0.58 |
| **Corynebacterium** | Neisseria | 0.07 | 0.58 |
| **Corynebacterium** | Rothia | -0.06 | 0.59 |
| **Alloprevotella** | Porphyromonas | -0.05 | 0.60 |
| **Alloprevotella** | Cardiobacterium | -0.13 | 0.61 |
| **Selenomonas** | Actinomyces | -0.10 | 0.61 |
| **Treponema** | Cardiobacterium | -0.18 | 0.62 |
| **Corynebacterium** | Treponema | -0.19 | 0.64 |
| **Porphyromonas** | Kingella | -0.04 | 0.65 |
| **Cardiobacterium** | Tannerella | 0.11 | 0.67 |
| **Actinomyces** | Prevotella | -0.09 | 0.67 |
| **Cardiobacterium** | Streptococcus | -0.20 | 0.68 |
| **Porphyromonas** | Streptococcus | -0.08 | 0.68 |
| **Porphyromonas** | Tannerella | 0.00 | 0.68 |
| **Cardiobacterium** | Rothia | -0.07 | 0.69 |
| **Actinomyces** | Gemella | -0.15 | 0.70 |
| **Selenomonas** | Corynebacterium | 0.27 | 0.70 |
| **Fusobacterium** | Corynebacterium | -0.20 | 0.70 |
| **Veillonella** | Cardiobacterium | -0.22 | 0.72 |
| **Cardiobacterium** | Porphyromonas | -0.02 | 0.72 |
| **Kingella** | Porphyromonas | -0.04 | 0.72 |
| **Selenomonas** | Porphyromonas | -0.03 | 0.72 |
| **Streptococcus** | Porphyromonas | -0.08 | 0.72 |
| **Tannerella** | Porphyromonas | 0.00 | 0.72 |
| **Veillonella** | Porphyromonas | -0.07 | 0.72 |
| **Oribacterium** | Actinomyces | 0.20 | 0.72 |
| **Corynebacterium** | Porphyromonas | 0.03 | 0.73 |
| **Fusobacterium** | Actinomyces | -0.10 | 0.73 |
| **Cardiobacterium** | Haemophilus | -0.16 | 0.75 |
| **Actinomyces** | Bergeyella | -0.18 | 0.76 |
| **Haemophilus** | Actinomyces | 0.04 | 0.77 |
| **Bergeyella** | Actinomyces | -0.18 | 0.77 |
| **Cardiobacterium** | Actinomyces | 0.11 | 0.77 |
| **Corynebacterium** | Actinomyces | 0.11 | 0.77 |
| **Gemella** | Actinomyces | -0.15 | 0.77 |
| **Neisseria** | Actinomyces | -0.19 | 0.77 |
| **Prevotella** | Actinomyces | -0.09 | 0.77 |
| **Alloprevotella** | Corynebacterium | -0.14 | 0.77 |
| **Gemella** | Corynebacterium | -0.11 | 0.77 |
| **Haemophilus** | Corynebacterium | -0.20 | 0.77 |
| **Kingella** | Corynebacterium | 0.09 | 0.77 |
| **Neisseria** | Corynebacterium | 0.07 | 0.77 |
| **Oribacterium** | Corynebacterium | -0.16 | 0.77 |
| **Prevotella** | Corynebacterium | -0.10 | 0.77 |
| **Rothia** | Corynebacterium | -0.06 | 0.77 |
| **Streptococcus** | Corynebacterium | -0.09 | 0.77 |
| **Tannerella** | Corynebacterium | 0.17 | 0.77 |
| **Veillonella** | Corynebacterium | -0.09 | 0.77 |
| **Treponema** | Corynebacterium | -0.19 | 0.81 |
| **Actinomyces** | Corynebacterium | 0.11 | 0.81 |
| **Porphyromonas** | Corynebacterium | 0.03 | 0.81 |
| **Campylobacter** | Actinomyces | 0.09 | 0.82 |
| **Corynebacterium** | Bergeyella | 0.03 | 0.86 |
| **Actinomyces** | Cardiobacterium | 0.11 | 0.88 |
| **Haemophilus** | Cardiobacterium | -0.16 | 0.88 |
| **Porphyromonas** | Cardiobacterium | -0.02 | 0.88 |
| **Rothia** | Cardiobacterium | -0.07 | 0.88 |
| **Streptococcus** | Cardiobacterium | -0.20 | 0.88 |
| **Tannerella** | Cardiobacterium | 0.11 | 0.88 |
| **Cardiobacterium** | Selenomonas | 0.04 | 0.90 |
| **Actinomyces** | Campylobacter | 0.09 | 0.91 |
| **Bergeyella** | Corynebacterium | 0.03 | 0.91 |
| **Campylobacter** | Corynebacterium | 0.02 | 0.94 |
| **Cardiobacterium** | Campylobacter | 0.08 | 0.97 |
| **Corynebacterium** | Campylobacter | 0.02 | 0.97 |
| **Campylobacter** | Cardiobacterium | 0.08 | 0.99 |
| **Gemella** | Cardiobacterium | -0.04 | 0.99 |
| **Selenomonas** | Cardiobacterium | 0.04 | 0.99 |
| **Cardiobacterium** | Gemella | -0.04 | 0.99 |

**Appendix Table 9. Relative abundance correlations of most abundant genera in PKU SP**

|  |  |  |  |
| --- | --- | --- | --- |
| Appendix Table 9. Relative abundance correlations of most abundant genera in PKU SP | | | |
| **var1** | **var2** | **rho** | **qvalue** |
| **Veillonella** | Streptococcus | 0.68 | 4.9E-07 |
| **Streptococcus** | Veillonella | 0.68 | 4.9E-07 |
| **Fusobacterium** | Prevotella | 0.56 | 1.0E-06 |
| **Prevotella** | Fusobacterium | 0.56 | 1.0E-06 |
| **Selenomonas** | Streptococcus | -0.57 | 1.1E-06 |
| **Haemophilus** | Streptococcus | 0.52 | 1.3E-06 |
| **Streptococcus** | Selenomonas | -0.57 | 1.7E-06 |
| **Neisseria** | Prevotella | -0.51 | 2.1E-06 |
| **Streptococcus** | Haemophilus | 0.52 | 2.5E-06 |
| **Prevotella** | Neisseria | -0.51 | 3.1E-06 |
| **Treponema** | Streptococcus | -0.55 | 3.3E-06 |
| **Treponema** | Tannerella | 0.56 | 3.7E-06 |
| **Tannerella** | Treponema | 0.56 | 3.7E-06 |
| **Streptococcus** | Treponema | -0.55 | 5.6E-06 |
| **Fusobacterium** | Neisseria | -0.50 | 8.8E-06 |
| **Neisseria** | Fusobacterium | -0.50 | 8.8E-06 |
| **Tannerella** | Streptococcus | -0.47 | 9.8E-06 |
| **Veillonella** | Haemophilus | 0.50 | 1.6E-05 |
| **Haemophilus** | Veillonella | 0.50 | 1.6E-05 |
| **Kingella** | Prevotella | -0.41 | 1.6E-05 |
| **Kingella** | Fusobacterium | -0.47 | 1.8E-05 |
| **Streptococcus** | Tannerella | -0.47 | 2.0E-05 |
| **Prevotella** | Kingella | -0.41 | 2.4E-05 |
| **Fusobacterium** | Kingella | -0.47 | 2.4E-05 |
| **Selenomonas** | Haemophilus | -0.41 | 5.7E-05 |
| **Campylobacter** | Fusobacterium | 0.50 | 5.7E-05 |
| **Haemophilus** | Selenomonas | -0.41 | 7.6E-05 |
| **Neisseria** | Kingella | 0.32 | 1.3E-04 |
| **Kingella** | Neisseria | 0.32 | 1.3E-04 |
| **Fusobacterium** | Campylobacter | 0.50 | 1.4E-04 |
| **Treponema** | Neisseria | -0.51 | 1.6E-04 |
| **Neisseria** | Treponema | -0.51 | 1.9E-04 |
| **Veillonella** | Tannerella | -0.39 | 2.6E-04 |
| **Tannerella** | Veillonella | -0.39 | 2.6E-04 |
| **Gemella** | Streptococcus | 0.41 | 2.6E-04 |
| **Rothia** | Streptococcus | 0.39 | 2.9E-04 |
| **Corynebacterium** | Prevotella | -0.39 | 3.1E-04 |
| **Bergeyella** | Kingella | 0.35 | 3.3E-04 |
| **Bergeyella** | Selenomonas | -0.39 | 3.8E-04 |
| **Haemophilus** | Treponema | -0.36 | 4.3E-04 |
| **Kingella** | Treponema | -0.34 | 4.3E-04 |
| **Veillonella** | Treponema | -0.44 | 4.3E-04 |
| **Tannerella** | Haemophilus | -0.36 | 4.6E-04 |
| **Treponema** | Haemophilus | -0.36 | 4.6E-04 |
| **Bergeyella** | Neisseria | 0.31 | 0.00 |
| **Corynebacterium** | Neisseria | 0.35 | 0.00 |
| **Treponema** | Kingella | -0.34 | 0.00 |
| **Gemella** | Haemophilus | 0.37 | 0.00 |
| **Haemophilus** | Tannerella | -0.36 | 0.00 |
| **Treponema** | Veillonella | -0.44 | 0.00 |
| **Selenomonas** | Treponema | 0.22 | 0.00 |
| **Kingella** | Bergeyella | 0.35 | 0.00 |
| **Selenomonas** | Bergeyella | -0.39 | 0.00 |
| **Selenomonas** | Veillonella | -0.35 | 0.00 |
| **Bergeyella** | Prevotella | -0.31 | 0.00 |
| **Bergeyella** | Treponema | -0.35 | 0.00 |
| **Gemella** | Treponema | -0.34 | 0.00 |
| **Fusobacterium** | Treponema | 0.32 | 0.00 |
| **Neisseria** | Bergeyella | 0.31 | 0.00 |
| **Veillonella** | Selenomonas | -0.35 | 0.00 |
| **Prevotella** | Bergeyella | -0.31 | 0.00 |
| **Treponema** | Selenomonas | 0.22 | 0.00 |
| **Prevotella** | Selenomonas | 0.43 | 0.00 |
| **Rothia** | Selenomonas | -0.33 | 0.00 |
| **Tannerella** | Selenomonas | 0.30 | 0.00 |
| **Prevotella** | Corynebacterium | -0.39 | 0.00 |
| **Kingella** | Selenomonas | -0.34 | 0.00 |
| **Prevotella** | Treponema | 0.28 | 0.00 |
| **Streptococcus** | Gemella | 0.41 | 0.00 |
| **Selenomonas** | Prevotella | 0.43 | 0.00 |
| **Treponema** | Bergeyella | -0.35 | 0.00 |
| **Selenomonas** | Tannerella | 0.30 | 0.00 |
| **Campylobacter** | Prevotella | 0.34 | 0.00 |
| **Gemella** | Prevotella | -0.32 | 0.00 |
| **Treponema** | Prevotella | 0.28 | 0.00 |
| **Corynebacterium** | Fusobacterium | -0.35 | 0.00 |
| **Treponema** | Fusobacterium | 0.32 | 0.00 |
| **Bergeyella** | Streptococcus | 0.36 | 0.00 |
| **Neisseria** | Corynebacterium | 0.35 | 0.00 |
| **Selenomonas** | Kingella | -0.34 | 0.00 |
| **Streptococcus** | Rothia | 0.39 | 0.00 |
| **Haemophilus** | Gemella | 0.37 | 0.00 |
| **Gemella** | Selenomonas | -0.27 | 0.00 |
| **Cardiobacterium** | Corynebacterium | 0.40 | 0.00 |
| **Alloprevotella** | Treponema | 0.30 | 0.00 |
| **Gemella** | Bergeyella | 0.29 | 0.00 |
| **Streptococcus** | Bergeyella | 0.36 | 0.00 |
| **Gemella** | Fusobacterium | -0.30 | 0.00 |
| **Bergeyella** | Gemella | 0.29 | 0.00 |
| **Neisseria** | Gemella | 0.28 | 0.00 |
| **Prevotella** | Gemella | -0.32 | 0.00 |
| **Selenomonas** | Gemella | -0.27 | 0.00 |
| **Fusobacterium** | Gemella | -0.30 | 0.00 |
| **Treponema** | Gemella | -0.34 | 0.00 |
| **Actinomyces** | Tannerella | -0.42 | 0.00 |
| **Fusobacterium** | Corynebacterium | -0.35 | 0.00 |
| **Gemella** | Neisseria | 0.28 | 0.00 |
| **Corynebacterium** | Treponema | -0.38 | 0.00 |
| **Rothia** | Tannerella | -0.31 | 0.00 |
| **Neisseria** | Selenomonas | -0.38 | 0.00 |
| **Selenomonas** | Rothia | -0.33 | 0.00 |
| **Cardiobacterium** | Neisseria | 0.41 | 0.00 |
| **Selenomonas** | Neisseria | -0.38 | 0.00 |
| **Corynebacterium** | Cardiobacterium | 0.40 | 0.00 |
| **Rothia** | Treponema | -0.26 | 0.00 |
| **Cardiobacterium** | Prevotella | -0.41 | 0.00 |
| **Oribacterium** | Prevotella | 0.28 | 0.00 |
| **Fusobacterium** | Bergeyella | -0.23 | 0.00 |
| **Bergeyella** | Fusobacterium | -0.23 | 0.00 |
| **Alloprevotella** | Streptococcus | -0.31 | 0.00 |
| **Kingella** | Streptococcus | 0.26 | 0.00 |
| **Kingella** | Haemophilus | 0.34 | 0.00 |
| **Haemophilus** | Kingella | 0.34 | 0.00 |
| **Streptococcus** | Prevotella | -0.35 | 0.00 |
| **Prevotella** | Streptococcus | -0.35 | 0.00 |
| **Fusobacterium** | Streptococcus | -0.35 | 0.00 |
| **Corynebacterium** | Kingella | 0.27 | 0.00 |
| **Streptococcus** | Kingella | 0.26 | 0.00 |
| **Tannerella** | Rothia | -0.31 | 0.00 |
| **Prevotella** | Campylobacter | 0.34 | 0.00 |
| **Treponema** | Corynebacterium | -0.38 | 0.00 |
| **Kingella** | Corynebacterium | 0.27 | 0.00 |
| **Streptococcus** | Fusobacterium | -0.35 | 0.00 |
| **Haemophilus** | Fusobacterium | -0.32 | 0.00 |
| **Actinomyces** | Streptococcus | 0.30 | 0.00 |
| **Neisseria** | Streptococcus | 0.29 | 0.00 |
| **Alloprevotella** | Selenomonas | 0.25 | 0.01 |
| **Tannerella** | Actinomyces | -0.42 | 0.01 |
| **Campylobacter** | Neisseria | -0.25 | 0.01 |
| **Fusobacterium** | Haemophilus | -0.32 | 0.01 |
| **Streptococcus** | Neisseria | 0.29 | 0.01 |
| **Bergeyella** | Haemophilus | 0.19 | 0.01 |
| **Rothia** | Haemophilus | 0.18 | 0.01 |
| **Actinomyces** | Veillonella | 0.29 | 0.01 |
| **Campylobacter** | Kingella | -0.24 | 0.01 |
| **Oribacterium** | Kingella | -0.23 | 0.01 |
| **Haemophilus** | Bergeyella | 0.19 | 0.01 |
| **Gemella** | Kingella | 0.13 | 0.01 |
| **Fusobacterium** | Selenomonas | 0.14 | 0.01 |
| **Neisseria** | Cardiobacterium | 0.41 | 0.01 |
| **Treponema** | Rothia | -0.26 | 0.01 |
| **Treponema** | Alloprevotella | 0.30 | 0.01 |
| **Oribacterium** | Neisseria | -0.22 | 0.01 |
| **Tannerella** | Neisseria | -0.36 | 0.01 |
| **Prevotella** | Cardiobacterium | -0.41 | 0.01 |
| **Selenomonas** | Fusobacterium | 0.14 | 0.01 |
| **Kingella** | Gemella | 0.13 | 0.01 |
| **Alloprevotella** | Veillonella | -0.26 | 0.01 |
| **Tannerella** | Gemella | -0.24 | 0.01 |
| **Cardiobacterium** | Kingella | 0.30 | 0.01 |
| **Alloprevotella** | Tannerella | 0.19 | 0.01 |
| **Streptococcus** | Alloprevotella | -0.31 | 0.01 |
| **Haemophilus** | Neisseria | 0.24 | 0.01 |
| **Actinomyces** | Treponema | -0.33 | 0.01 |
| **Porphyromonas** | Actinomyces | -0.49 | 0.01 |
| **Veillonella** | Actinomyces | 0.29 | 0.01 |
| **Gemella** | Tannerella | -0.24 | 0.01 |
| **Neisseria** | Tannerella | -0.36 | 0.01 |
| **Tannerella** | Kingella | -0.23 | 0.01 |
| **Haemophilus** | Prevotella | -0.21 | 0.01 |
| **Haemophilus** | Rothia | 0.18 | 0.01 |
| **Bergeyella** | Tannerella | -0.23 | 0.01 |
| **Alloprevotella** | Kingella | -0.22 | 0.01 |
| **Corynebacterium** | Gemella | 0.29 | 0.01 |
| **Rothia** | Gemella | 0.21 | 0.01 |
| **Veillonella** | Gemella | 0.19 | 0.01 |
| **Neisseria** | Haemophilus | 0.24 | 0.01 |
| **Prevotella** | Haemophilus | -0.21 | 0.01 |
| **Tannerella** | Bergeyella | -0.23 | 0.01 |
| **Kingella** | Tannerella | -0.23 | 0.01 |
| **Oribacterium** | Fusobacterium | 0.18 | 0.01 |
| **Alloprevotella** | Bergeyella | -0.24 | 0.01 |
| **Kingella** | Campylobacter | -0.24 | 0.01 |
| **Neisseria** | Campylobacter | -0.25 | 0.01 |
| **Streptococcus** | Actinomyces | 0.30 | 0.01 |
| **Selenomonas** | Alloprevotella | 0.25 | 0.01 |
| **Tannerella** | Alloprevotella | 0.19 | 0.01 |
| **Veillonella** | Alloprevotella | -0.26 | 0.01 |
| **Rothia** | Veillonella | 0.14 | 0.02 |
| **Prevotella** | Oribacterium | 0.28 | 0.02 |
| **Cardiobacterium** | Fusobacterium | -0.26 | 0.02 |
| **Rothia** | Fusobacterium | -0.28 | 0.02 |
| **Gemella** | Veillonella | 0.19 | 0.02 |
| **Actinomyces** | Porphyromonas | -0.49 | 0.02 |
| **Gemella** | Rothia | 0.21 | 0.02 |
| **Veillonella** | Rothia | 0.14 | 0.02 |
| **Veillonella** | Kingella | 0.20 | 0.02 |
| **Gemella** | Corynebacterium | 0.29 | 0.02 |
| **Rothia** | Prevotella | -0.22 | 0.02 |
| **Oribacterium** | Bergeyella | -0.19 | 0.02 |
| **Bergeyella** | Alloprevotella | -0.24 | 0.02 |
| **Kingella** | Alloprevotella | -0.22 | 0.02 |
| **Actinomyces** | Rothia | 0.21 | 0.02 |
| **Fusobacterium** | Rothia | -0.28 | 0.02 |
| **Rothia** | Neisseria | 0.19 | 0.02 |
| **Kingella** | Oribacterium | -0.23 | 0.03 |
| **Rothia** | Bergeyella | 0.15 | 0.03 |
| **Alloprevotella** | Prevotella | 0.21 | 0.03 |
| **Treponema** | Actinomyces | -0.33 | 0.03 |
| **Kingella** | Cardiobacterium | 0.30 | 0.03 |
| **Neisseria** | Oribacterium | -0.22 | 0.03 |
| **Prevotella** | Rothia | -0.22 | 0.03 |
| **Corynebacterium** | Bergeyella | 0.10 | 0.03 |
| **Actinomyces** | Alloprevotella | -0.27 | 0.03 |
| **Veillonella** | Bergeyella | 0.11 | 0.03 |
| **Bergeyella** | Rothia | 0.15 | 0.03 |
| **Neisseria** | Rothia | 0.19 | 0.03 |
| **Tannerella** | Fusobacterium | 0.18 | 0.03 |
| **Campylobacter** | Gemella | -0.15 | 0.03 |
| **Kingella** | Veillonella | 0.20 | 0.03 |
| **Corynebacterium** | Alloprevotella | -0.25 | 0.03 |
| **Alloprevotella** | Corynebacterium | -0.25 | 0.03 |
| **Oribacterium** | Corynebacterium | -0.17 | 0.03 |
| **Oribacterium** | Cardiobacterium | -0.26 | 0.03 |
| **Cardiobacterium** | Oribacterium | -0.26 | 0.03 |
| **Fusobacterium** | Oribacterium | 0.18 | 0.03 |
| **Alloprevotella** | Actinomyces | -0.27 | 0.03 |
| **Rothia** | Actinomyces | 0.21 | 0.03 |
| **Alloprevotella** | Haemophilus | -0.13 | 0.03 |
| **Fusobacterium** | Tannerella | 0.18 | 0.03 |
| **Fusobacterium** | Cardiobacterium | -0.26 | 0.03 |
| **Rothia** | Kingella | 0.12 | 0.03 |
| **Campylobacter** | Bergeyella | -0.14 | 0.04 |
| **Oribacterium** | Gemella | -0.17 | 0.04 |
| **Porphyromonas** | Cardiobacterium | 0.25 | 0.04 |
| **Haemophilus** | Alloprevotella | -0.13 | 0.04 |
| **Prevotella** | Alloprevotella | 0.21 | 0.04 |
| **Bergeyella** | Oribacterium | -0.19 | 0.04 |
| **Bergeyella** | Veillonella | 0.11 | 0.04 |
| **Bergeyella** | Corynebacterium | 0.10 | 0.04 |
| **Corynebacterium** | Oribacterium | -0.17 | 0.04 |
| **Campylobacter** | Corynebacterium | -0.14 | 0.04 |
| **Actinomyces** | Selenomonas | -0.19 | 0.04 |
| **Actinomyces** | Haemophilus | 0.15 | 0.04 |
| **Kingella** | Rothia | 0.12 | 0.04 |
| **Veillonella** | Fusobacterium | -0.22 | 0.05 |
| **Porphyromonas** | Fusobacterium | -0.33 | 0.05 |
| **Tannerella** | Prevotella | 0.04 | 0.05 |
| **Alloprevotella** | Gemella | -0.11 | 0.05 |
| **Prevotella** | Tannerella | 0.04 | 0.06 |
| **Fusobacterium** | Veillonella | -0.22 | 0.06 |
| **Porphyromonas** | Prevotella | -0.26 | 0.06 |
| **Veillonella** | Prevotella | -0.12 | 0.06 |
| **Cardiobacterium** | Treponema | -0.28 | 0.06 |
| **Porphyromonas** | Neisseria | 0.28 | 0.07 |
| **Bergeyella** | Campylobacter | -0.14 | 0.07 |
| **Corynebacterium** | Campylobacter | -0.14 | 0.07 |
| **Gemella** | Campylobacter | -0.15 | 0.07 |
| **Oribacterium** | Campylobacter | 0.16 | 0.07 |
| **Porphyromonas** | Campylobacter | -0.23 | 0.07 |
| **Campylobacter** | Oribacterium | 0.16 | 0.07 |
| **Gemella** | Oribacterium | -0.17 | 0.07 |
| **Haemophilus** | Actinomyces | 0.15 | 0.07 |
| **Selenomonas** | Actinomyces | -0.19 | 0.07 |
| **Corynebacterium** | Streptococcus | 0.18 | 0.07 |
| **Alloprevotella** | Neisseria | -0.07 | 0.07 |
| **Gemella** | Alloprevotella | -0.11 | 0.07 |
| **Oribacterium** | Selenomonas | 0.14 | 0.07 |
| **Oribacterium** | Treponema | 0.07 | 0.08 |
| **Streptococcus** | Corynebacterium | 0.18 | 0.08 |
| **Neisseria** | Alloprevotella | -0.07 | 0.09 |
| **Campylobacter** | Treponema | 0.09 | 0.09 |
| **Prevotella** | Veillonella | -0.12 | 0.09 |
| **Corynebacterium** | Tannerella | -0.13 | 0.09 |
| **Cardiobacterium** | Bergeyella | 0.11 | 0.10 |
| **Rothia** | Alloprevotella | -0.06 | 0.10 |
| **Alloprevotella** | Rothia | -0.06 | 0.10 |
| **Cardiobacterium** | Porphyromonas | 0.25 | 0.10 |
| **Porphyromonas** | Oribacterium | -0.17 | 0.10 |
| **Selenomonas** | Oribacterium | 0.14 | 0.10 |
| **Treponema** | Oribacterium | 0.07 | 0.10 |
| **Tannerella** | Corynebacterium | -0.13 | 0.11 |
| **Campylobacter** | Selenomonas | 0.11 | 0.11 |
| **Corynebacterium** | Selenomonas | -0.02 | 0.11 |
| **Veillonella** | Neisseria | -0.01 | 0.11 |
| **Campylobacter** | Haemophilus | -0.11 | 0.11 |
| **Campylobacter** | Streptococcus | -0.14 | 0.12 |
| **Porphyromonas** | Corynebacterium | 0.18 | 0.12 |
| **Selenomonas** | Corynebacterium | -0.02 | 0.12 |
| **Treponema** | Cardiobacterium | -0.28 | 0.12 |
| **Porphyromonas** | Kingella | 0.22 | 0.13 |
| **Cardiobacterium** | Campylobacter | -0.08 | 0.13 |
| **Haemophilus** | Campylobacter | -0.11 | 0.13 |
| **Selenomonas** | Campylobacter | 0.11 | 0.13 |
| **Streptococcus** | Campylobacter | -0.14 | 0.13 |
| **Treponema** | Campylobacter | 0.09 | 0.13 |
| **Campylobacter** | Porphyromonas | -0.23 | 0.14 |
| **Neisseria** | Veillonella | -0.01 | 0.14 |
| **Alloprevotella** | Fusobacterium | -0.01 | 0.14 |
| **Oribacterium** | Haemophilus | -0.10 | 0.15 |
| **Neisseria** | Porphyromonas | 0.28 | 0.15 |
| **Oribacterium** | Porphyromonas | -0.17 | 0.15 |
| **Prevotella** | Porphyromonas | -0.26 | 0.15 |
| **Fusobacterium** | Porphyromonas | -0.33 | 0.15 |
| **Cardiobacterium** | Alloprevotella | -0.18 | 0.16 |
| **Oribacterium** | Alloprevotella | 0.11 | 0.16 |
| **Fusobacterium** | Alloprevotella | -0.01 | 0.16 |
| **Bergeyella** | Cardiobacterium | 0.11 | 0.17 |
| **Campylobacter** | Cardiobacterium | -0.08 | 0.17 |
| **Haemophilus** | Oribacterium | -0.10 | 0.18 |
| **Alloprevotella** | Oribacterium | 0.11 | 0.18 |
| **Rothia** | Campylobacter | -0.09 | 0.18 |
| **Campylobacter** | Rothia | -0.09 | 0.18 |
| **Oribacterium** | Streptococcus | 0.00 | 0.19 |
| **Corynebacterium** | Porphyromonas | 0.18 | 0.21 |
| **Porphyromonas** | Rothia | -0.28 | 0.21 |
| **Streptococcus** | Oribacterium | 0.00 | 0.21 |
| **Corynebacterium** | Rothia | 0.02 | 0.23 |
| **Alloprevotella** | Cardiobacterium | -0.18 | 0.24 |
| **Porphyromonas** | Tannerella | 0.21 | 0.24 |
| **Haemophilus** | Corynebacterium | -0.04 | 0.24 |
| **Rothia** | Corynebacterium | 0.02 | 0.24 |
| **Corynebacterium** | Haemophilus | -0.04 | 0.24 |
| **Oribacterium** | Rothia | -0.08 | 0.25 |
| **Porphyromonas** | Veillonella | -0.17 | 0.25 |
| **Kingella** | Porphyromonas | 0.22 | 0.25 |
| **Actinomyces** | Kingella | 0.07 | 0.26 |
| **Rothia** | Oribacterium | -0.08 | 0.26 |
| **Veillonella** | Oribacterium | -0.15 | 0.26 |
| **Oribacterium** | Veillonella | -0.15 | 0.26 |
| **Porphyromonas** | Bergeyella | 0.17 | 0.27 |
| **Rothia** | Porphyromonas | -0.28 | 0.31 |
| **Tannerella** | Porphyromonas | 0.21 | 0.31 |
| **Veillonella** | Porphyromonas | -0.17 | 0.31 |
| **Veillonella** | Corynebacterium | -0.03 | 0.34 |
| **Bergeyella** | Porphyromonas | 0.17 | 0.36 |
| **Corynebacterium** | Veillonella | -0.03 | 0.36 |
| **Actinomyces** | Corynebacterium | 0.11 | 0.39 |
| **Tannerella** | Oribacterium | -0.02 | 0.39 |
| **Actinomyces** | Fusobacterium | -0.08 | 0.39 |
| **Oribacterium** | Tannerella | -0.02 | 0.41 |
| **Actinomyces** | Gemella | -0.07 | 0.41 |
| **Porphyromonas** | Gemella | 0.13 | 0.41 |
| **Actinomyces** | Prevotella | -0.07 | 0.42 |
| **Porphyromonas** | Streptococcus | -0.18 | 0.44 |
| **Cardiobacterium** | Selenomonas | 0.00 | 0.46 |
| **Cardiobacterium** | Gemella | -0.11 | 0.46 |
| **Campylobacter** | Veillonella | 0.02 | 0.47 |
| **Kingella** | Actinomyces | 0.07 | 0.47 |
| **Actinomyces** | Bergeyella | -0.07 | 0.48 |
| **Cardiobacterium** | Tannerella | -0.07 | 0.51 |
| **Gemella** | Porphyromonas | 0.13 | 0.52 |
| **Streptococcus** | Porphyromonas | -0.18 | 0.52 |
| **Campylobacter** | Tannerella | -0.10 | 0.52 |
| **Veillonella** | Campylobacter | 0.02 | 0.52 |
| **Corynebacterium** | Actinomyces | 0.11 | 0.56 |
| **Gemella** | Actinomyces | -0.07 | 0.56 |
| **Prevotella** | Actinomyces | -0.07 | 0.56 |
| **Fusobacterium** | Actinomyces | -0.08 | 0.56 |
| **Tannerella** | Campylobacter | -0.10 | 0.58 |
| **Actinomyces** | Neisseria | -0.09 | 0.60 |
| **Bergeyella** | Actinomyces | -0.07 | 0.60 |
| **Porphyromonas** | Alloprevotella | 0.08 | 0.61 |
| **Gemella** | Cardiobacterium | -0.11 | 0.65 |
| **Selenomonas** | Cardiobacterium | 0.00 | 0.65 |
| **Tannerella** | Cardiobacterium | -0.07 | 0.65 |
| **Alloprevotella** | Porphyromonas | 0.08 | 0.69 |
| **Porphyromonas** | Selenomonas | 0.12 | 0.70 |
| **Neisseria** | Actinomyces | -0.09 | 0.70 |
| **Cardiobacterium** | Streptococcus | -0.12 | 0.71 |
| **Selenomonas** | Porphyromonas | 0.12 | 0.78 |
| **Cardiobacterium** | Rothia | -0.05 | 0.79 |
| **Campylobacter** | Alloprevotella | -0.12 | 0.80 |
| **Cardiobacterium** | Actinomyces | -0.09 | 0.80 |
| **Porphyromonas** | Haemophilus | -0.01 | 0.83 |
| **Haemophilus** | Porphyromonas | -0.01 | 0.83 |
| **Alloprevotella** | Campylobacter | -0.12 | 0.84 |
| **Actinomyces** | Cardiobacterium | -0.09 | 0.85 |
| **Streptococcus** | Cardiobacterium | -0.12 | 0.85 |
| **Cardiobacterium** | Veillonella | -0.11 | 0.87 |
| **Actinomyces** | Campylobacter | -0.05 | 0.87 |
| **Rothia** | Cardiobacterium | -0.05 | 0.88 |
| **Campylobacter** | Actinomyces | -0.05 | 0.91 |
| **Oribacterium** | Actinomyces | 0.06 | 0.91 |
| **Actinomyces** | Oribacterium | 0.06 | 0.91 |
| **Veillonella** | Cardiobacterium | -0.11 | 0.91 |
| **Treponema** | Porphyromonas | 0.05 | 0.94 |
| **Porphyromonas** | Treponema | 0.05 | 0.94 |
| **Haemophilus** | Cardiobacterium | -0.18 | 0.99 |
| **Cardiobacterium** | Haemophilus | -0.18 | 0.99 |

**Appendix Table 10. Differences in relative genus abundances of saliva and subgingival plaque\_revised**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **taxa** | **comp** | **Log2mean ratio** | **qval** | **Alpha** | **Shape** |
| Fusobacterium | Ctrl\_S\_vs\_Ctrl\_SP | -1.48 | 0.000 | Significant | 25 |
| Alloprevotella | Ctrl\_S\_vs\_Ctrl\_SP | 2.00 | 0.000 | Significant | 24 |
| Streptococcus | Ctrl\_S\_vs\_Ctrl\_SP | 1.36 | 0.000 | Significant | 24 |
| Capnocytophaga | Ctrl\_S\_vs\_Ctrl\_SP | -2.00 | 0.000 | Significant | 25 |
| Campylobacter | Ctrl\_S\_vs\_Ctrl\_SP | -1.47 | 0.000 | Significant | 25 |
| Stomatobaculum | Ctrl\_S\_vs\_Ctrl\_SP | 2.00 | 0.000 | Significant | 24 |
| Pseudopropionibacterium | Ctrl\_S\_vs\_Ctrl\_SP | -2.00 | 0.000 | Significant | 25 |
| Corynebacterium | Ctrl\_S\_vs\_Ctrl\_SP | -2.00 | 0.000 | Significant | 25 |
| Atopobium | Ctrl\_S\_vs\_Ctrl\_SP | 2.00 | 0.000 | Significant | 24 |
| Gemella | Ctrl\_S\_vs\_Ctrl\_SP | 1.52 | 0.000 | Significant | 24 |
| Cardiobacterium | Ctrl\_S\_vs\_Ctrl\_SP | -2.00 | 0.000 | Significant | 25 |
| F0332 | Ctrl\_S\_vs\_Ctrl\_SP | -2.00 | 0.000 | Significant | 25 |
| Neisseria | Ctrl\_S\_vs\_Ctrl\_SP | 1.12 | 0.000 | Significant | 24 |
| Peptostreptococcus | Ctrl\_S\_vs\_Ctrl\_SP | 1.30 | 0.000 | Significant | 24 |
| Haemophilus | Ctrl\_S\_vs\_Ctrl\_SP | 0.97 | 0.000 | Significant | 24 |
| Prevotella | Ctrl\_S\_vs\_Ctrl\_SP | 0.66 | 0.000 | Significant | 24 |
| Tannerella | Ctrl\_S\_vs\_Ctrl\_SP | -1.75 | 0.000 | Significant | 25 |
| Oribacterium | Ctrl\_S\_vs\_Ctrl\_SP | 0.98 | 0.000 | Significant | 24 |
| Veillonella | Ctrl\_S\_vs\_Ctrl\_SP | 0.77 | 0.000 | Significant | 24 |
| Porphyromonas | Ctrl\_S\_vs\_Ctrl\_SP | 1.07 | 0.000 | Significant | 24 |
| Aggregatibacter | Ctrl\_S\_vs\_Ctrl\_SP | -1.86 | 0.000 | Significant | 25 |
| Kingella | Ctrl\_S\_vs\_Ctrl\_SP | -1.54 | 0.000 | Significant | 25 |
| Rothia | Ctrl\_S\_vs\_Ctrl\_SP | 0.39 | 0.000 | Significant | 24 |
| Olsenella | Ctrl\_S\_vs\_Ctrl\_SP | -2.00 | 0.000 | Significant | 25 |
| Selenomonas | Ctrl\_S\_vs\_Ctrl\_SP | -1.10 | 0.001 | Significant | 25 |
| Leptotrichia | Ctrl\_S\_vs\_Ctrl\_SP | -0.67 | 0.005 | Significant | 25 |
| Lachnoanaerobaculum | Ctrl\_S\_vs\_Ctrl\_SP | 0.22 | 0.010 | Significant | 24 |
| Actinomyces | Ctrl\_S\_vs\_Ctrl\_SP | 0.12 | 0.630 | Non-significant | 24 |
| Catonella | Ctrl\_S\_vs\_Ctrl\_SP | 0.14 | 0.780 | Non-significant | 24 |
| Peptococcus | Ctrl\_S\_vs\_Ctrl\_SP | -0.51 | 1.000 | Non-significant | 25 |
| Lautropia | Ctrl\_S\_vs\_Ctrl\_SP | -0.39 | 1.000 | Non-significant | 25 |
| Fretibacterium | Ctrl\_S\_vs\_Ctrl\_SP | -1.70 | 1.000 | Non-significant | 25 |
| Stomatobaculum | Ctrl\_S\_vs\_Ctrl\_SP\_Adults | 2.00 | 0.000 | Significant | 24 |
| Alloprevotella | Ctrl\_S\_vs\_Ctrl\_SP\_Adults | 2.00 | 0.000 | Significant | 24 |
| Capnocytophaga | Ctrl\_S\_vs\_Ctrl\_SP\_Adults | -2.00 | 0.000 | Significant | 25 |
| Fusobacterium | Ctrl\_S\_vs\_Ctrl\_SP\_Adults | -1.46 | 0.000 | Significant | 25 |
| Atopobium | Ctrl\_S\_vs\_Ctrl\_SP\_Adults | 2.00 | 0.000 | Significant | 24 |
| Streptococcus | Ctrl\_S\_vs\_Ctrl\_SP\_Adults | 1.38 | 0.000 | Significant | 24 |
| Campylobacter | Ctrl\_S\_vs\_Ctrl\_SP\_Adults | -1.49 | 0.000 | Significant | 25 |
| Gemella | Ctrl\_S\_vs\_Ctrl\_SP\_Adults | 1.81 | 0.000 | Significant | 24 |
| Corynebacterium | Ctrl\_S\_vs\_Ctrl\_SP\_Adults | -2.00 | 0.000 | Significant | 25 |
| F0332 | Ctrl\_S\_vs\_Ctrl\_SP\_Adults | -2.00 | 0.000 | Significant | 25 |
| Pseudopropionibacterium | Ctrl\_S\_vs\_Ctrl\_SP\_Adults | -2.00 | 0.000 | Significant | 25 |
| Cardiobacterium | Ctrl\_S\_vs\_Ctrl\_SP\_Adults | -2.00 | 0.000 | Significant | 25 |
| Haemophilus | Ctrl\_S\_vs\_Ctrl\_SP\_Adults | 1.14 | 0.000 | Significant | 24 |
| Peptostreptococcus | Ctrl\_S\_vs\_Ctrl\_SP\_Adults | 1.67 | 0.000 | Significant | 24 |
| Oribacterium | Ctrl\_S\_vs\_Ctrl\_SP\_Adults | 1.12 | 0.000 | Significant | 24 |
| Neisseria | Ctrl\_S\_vs\_Ctrl\_SP\_Adults | 1.12 | 0.000 | Significant | 24 |
| Prevotella | Ctrl\_S\_vs\_Ctrl\_SP\_Adults | 0.63 | 0.001 | Significant | 24 |
| Veillonella | Ctrl\_S\_vs\_Ctrl\_SP\_Adults | 0.79 | 0.001 | Significant | 24 |
| Porphyromonas | Ctrl\_S\_vs\_Ctrl\_SP\_Adults | 1.23 | 0.004 | Significant | 24 |
| Aggregatibacter | Ctrl\_S\_vs\_Ctrl\_SP\_Adults | -1.87 | 0.010 | Significant | 25 |
| Rothia | Ctrl\_S\_vs\_Ctrl\_SP\_Adults | 0.37 | 0.011 | Significant | 24 |
| Selenomonas | Ctrl\_S\_vs\_Ctrl\_SP\_Adults | -1.32 | 0.013 | Significant | 25 |
| Tannerella | Ctrl\_S\_vs\_Ctrl\_SP\_Adults | -1.35 | 0.032 | Significant | 25 |
| Kingella | Ctrl\_S\_vs\_Ctrl\_SP\_Adults | -1.67 | 0.056 | Non-significant | 25 |
| Leptotrichia | Ctrl\_S\_vs\_Ctrl\_SP\_Adults | -0.81 | 0.060 | Non-significant | 25 |
| Olsenella | Ctrl\_S\_vs\_Ctrl\_SP\_Adults | -2.00 | 0.075 | Non-significant | 25 |
| Actinomyces | Ctrl\_S\_vs\_Ctrl\_SP\_Adults | 0.23 | 0.520 | Non-significant | 24 |
| Catonella | Ctrl\_S\_vs\_Ctrl\_SP\_Adults | 0.55 | 0.550 | Non-significant | 24 |
| Peptococcus | Ctrl\_S\_vs\_Ctrl\_SP\_Adults | -0.22 | 1.000 | Non-significant | 25 |
| Lautropia | Ctrl\_S\_vs\_Ctrl\_SP\_Adults | -0.48 | 1.000 | Non-significant | 25 |
| Lachnoanaerobaculum | Ctrl\_S\_vs\_Ctrl\_SP\_Adults | 0.27 | 1.000 | Non-significant | 24 |
| Fretibacterium | Ctrl\_S\_vs\_Ctrl\_SP\_Adults | -1.21 | 1.000 | Non-significant | 25 |
| Fusobacterium | Ctrl\_S\_vs\_Ctrl\_SP\_Ch | -1.50 | 0.000 | Significant | 25 |
| Streptococcus | Ctrl\_S\_vs\_Ctrl\_SP\_Ch | 1.35 | 0.000 | Significant | 24 |
| Campylobacter | Ctrl\_S\_vs\_Ctrl\_SP\_Ch | -1.46 | 0.000 | Significant | 25 |
| Alloprevotella | Ctrl\_S\_vs\_Ctrl\_SP\_Ch | 2.00 | 0.000 | Significant | 24 |
| Capnocytophaga | Ctrl\_S\_vs\_Ctrl\_SP\_Ch | -2.00 | 0.000 | Significant | 25 |
| Pseudopropionibacterium | Ctrl\_S\_vs\_Ctrl\_SP\_Ch | -2.00 | 0.000 | Significant | 25 |
| Corynebacterium | Ctrl\_S\_vs\_Ctrl\_SP\_Ch | -1.86 | 0.000 | Significant | 25 |
| Neisseria | Ctrl\_S\_vs\_Ctrl\_SP\_Ch | 1.11 | 0.000 | Significant | 24 |
| Cardiobacterium | Ctrl\_S\_vs\_Ctrl\_SP\_Ch | -2.00 | 0.000 | Significant | 25 |
| Stomatobaculum | Ctrl\_S\_vs\_Ctrl\_SP\_Ch | 2.00 | 0.000 | Significant | 24 |
| Atopobium | Ctrl\_S\_vs\_Ctrl\_SP\_Ch | 2.00 | 0.000 | Significant | 24 |
| Gemella | Ctrl\_S\_vs\_Ctrl\_SP\_Ch | 1.34 | 0.000 | Significant | 24 |
| F0332 | Ctrl\_S\_vs\_Ctrl\_SP\_Ch | -2.00 | 0.000 | Significant | 25 |
| Prevotella | Ctrl\_S\_vs\_Ctrl\_SP\_Ch | 0.68 | 0.000 | Significant | 24 |
| Tannerella | Ctrl\_S\_vs\_Ctrl\_SP\_Ch | -2.00 | 0.000 | Significant | 25 |
| Peptostreptococcus | Ctrl\_S\_vs\_Ctrl\_SP\_Ch | 0.94 | 0.000 | Significant | 24 |
| Aggregatibacter | Ctrl\_S\_vs\_Ctrl\_SP\_Ch | -1.84 | 0.000 | Significant | 25 |
| Haemophilus | Ctrl\_S\_vs\_Ctrl\_SP\_Ch | 0.85 | 0.000 | Significant | 24 |
| Kingella | Ctrl\_S\_vs\_Ctrl\_SP\_Ch | -1.46 | 0.000 | Significant | 25 |
| Porphyromonas | Ctrl\_S\_vs\_Ctrl\_SP\_Ch | 0.96 | 0.000 | Significant | 24 |
| Veillonella | Ctrl\_S\_vs\_Ctrl\_SP\_Ch | 0.74 | 0.001 | Significant | 24 |
| Oribacterium | Ctrl\_S\_vs\_Ctrl\_SP\_Ch | 0.85 | 0.003 | Significant | 24 |
| Olsenella | Ctrl\_S\_vs\_Ctrl\_SP\_Ch | -2.00 | 0.003 | Significant | 25 |
| Rothia | Ctrl\_S\_vs\_Ctrl\_SP\_Ch | 0.41 | 0.018 | Significant | 24 |
| Lachnoanaerobaculum | Ctrl\_S\_vs\_Ctrl\_SP\_Ch | 0.19 | 0.094 | Non-significant | 24 |
| Selenomonas | Ctrl\_S\_vs\_Ctrl\_SP\_Ch | -0.90 | 0.330 | Non-significant | 25 |
| Fretibacterium | Ctrl\_S\_vs\_Ctrl\_SP\_Ch | -2.00 | 0.530 | Non-significant | 25 |
| Leptotrichia | Ctrl\_S\_vs\_Ctrl\_SP\_Ch | -0.57 | 0.770 | Non-significant | 25 |
| Peptococcus | Ctrl\_S\_vs\_Ctrl\_SP\_Ch | -0.74 | 1.000 | Non-significant | 25 |
| Lautropia | Ctrl\_S\_vs\_Ctrl\_SP\_Ch | -0.31 | 1.000 | Non-significant | 25 |
| Catonella | Ctrl\_S\_vs\_Ctrl\_SP\_Ch | -0.21 | 1.000 | Non-significant | 25 |
| Actinomyces | Ctrl\_S\_vs\_Ctrl\_SP\_Ch | 0.01 | 1.000 | Non-significant | 24 |
| Haemophilus | PKU\_S\_vs\_PKU\_SP | 1.97 | 0.000 | Significant | 24 |
| Streptococcus | PKU\_S\_vs\_PKU\_SP | 1.57 | 0.000 | Significant | 24 |
| F0332 | PKU\_S\_vs\_PKU\_SP | -2.00 | 0.000 | Significant | 25 |
| Pseudopropionibacterium | PKU\_S\_vs\_PKU\_SP | -2.00 | 0.000 | Significant | 25 |
| Actinomyces | PKU\_S\_vs\_PKU\_SP | -1.49 | 0.000 | Significant | 25 |
| Veillonella | PKU\_S\_vs\_PKU\_SP | 1.40 | 0.000 | Significant | 24 |
| Gemella | PKU\_S\_vs\_PKU\_SP | 2.00 | 0.000 | Significant | 24 |
| Fusobacterium | PKU\_S\_vs\_PKU\_SP | -1.20 | 0.000 | Significant | 25 |
| Olsenella | PKU\_S\_vs\_PKU\_SP | -2.00 | 0.000 | Significant | 25 |
| Corynebacterium | PKU\_S\_vs\_PKU\_SP | -2.00 | 0.000 | Significant | 25 |
| Selenomonas | PKU\_S\_vs\_PKU\_SP | -1.87 | 0.000 | Significant | 25 |
| Alloprevotella | PKU\_S\_vs\_PKU\_SP | 1.25 | 0.000 | Significant | 24 |
| Cardiobacterium | PKU\_S\_vs\_PKU\_SP | -2.00 | 0.000 | Significant | 25 |
| Campylobacter | PKU\_S\_vs\_PKU\_SP | -0.90 | 0.000 | Significant | 25 |
| Tannerella | PKU\_S\_vs\_PKU\_SP | -2.00 | 0.000 | Significant | 25 |
| Atopobium | PKU\_S\_vs\_PKU\_SP | 1.76 | 0.000 | Significant | 24 |
| Capnocytophaga | PKU\_S\_vs\_PKU\_SP | -1.51 | 0.000 | Significant | 25 |
| Lachnoanaerobaculum | PKU\_S\_vs\_PKU\_SP | 1.29 | 0.000 | Significant | 24 |
| Prevotella | PKU\_S\_vs\_PKU\_SP | 0.60 | 0.000 | Significant | 24 |
| Rothia | PKU\_S\_vs\_PKU\_SP | 0.62 | 0.000 | Significant | 24 |
| Neisseria | PKU\_S\_vs\_PKU\_SP | 0.84 | 0.000 | Significant | 24 |
| Porphyromonas | PKU\_S\_vs\_PKU\_SP | 1.00 | 0.000 | Significant | 24 |
| Oribacterium | PKU\_S\_vs\_PKU\_SP | 0.82 | 0.000 | Significant | 24 |
| Kingella | PKU\_S\_vs\_PKU\_SP | -1.81 | 0.000 | Significant | 25 |
| Stomatobaculum | PKU\_S\_vs\_PKU\_SP | 1.94 | 0.000 | Significant | 24 |
| Peptococcus | PKU\_S\_vs\_PKU\_SP | -2.00 | 0.004 | Significant | 25 |
| Fretibacterium | PKU\_S\_vs\_PKU\_SP | -2.00 | 0.006 | Significant | 25 |
| Peptostreptococcus | PKU\_S\_vs\_PKU\_SP | 1.84 | 0.027 | Significant | 24 |
| Lautropia | PKU\_S\_vs\_PKU\_SP | -1.19 | 0.068 | Non-significant | 25 |
| Aggregatibacter | PKU\_S\_vs\_PKU\_SP | -0.95 | 0.660 | Non-significant | 25 |
| Leptotrichia | PKU\_S\_vs\_PKU\_SP | -0.02 | 1.000 | Non-significant | 25 |
| Catonella | PKU\_S\_vs\_PKU\_SP | -0.05 | 1.000 | Non-significant | 25 |
| Streptococcus | PKU\_S\_vs\_PKU\_SP\_Adult | 1.87 | 0.000 | Significant | 24 |
| Haemophilus | PKU\_S\_vs\_PKU\_SP\_Adult | 1.97 | 0.000 | Significant | 24 |
| Fusobacterium | PKU\_S\_vs\_PKU\_SP\_Adult | -1.35 | 0.000 | Significant | 25 |
| Pseudopropionibacterium | PKU\_S\_vs\_PKU\_SP\_Adult | -2.00 | 0.000 | Significant | 25 |
| Veillonella | PKU\_S\_vs\_PKU\_SP\_Adult | 1.49 | 0.000 | Significant | 24 |
| F0332 | PKU\_S\_vs\_PKU\_SP\_Adult | -2.00 | 0.000 | Significant | 25 |
| Alloprevotella | PKU\_S\_vs\_PKU\_SP\_Adult | 1.41 | 0.000 | Significant | 24 |
| Actinomyces | PKU\_S\_vs\_PKU\_SP\_Adult | -1.16 | 0.000 | Significant | 25 |
| Stomatobaculum | PKU\_S\_vs\_PKU\_SP\_Adult | 2.00 | 0.000 | Significant | 24 |
| Corynebacterium | PKU\_S\_vs\_PKU\_SP\_Adult | -1.89 | 0.000 | Significant | 25 |
| Gemella | PKU\_S\_vs\_PKU\_SP\_Adult | 2.00 | 0.000 | Significant | 24 |
| Cardiobacterium | PKU\_S\_vs\_PKU\_SP\_Adult | -2.00 | 0.000 | Significant | 25 |
| Rothia | PKU\_S\_vs\_PKU\_SP\_Adult | 0.91 | 0.000 | Significant | 24 |
| Selenomonas | PKU\_S\_vs\_PKU\_SP\_Adult | -1.59 | 0.000 | Significant | 25 |
| Atopobium | PKU\_S\_vs\_PKU\_SP\_Adult | 1.98 | 0.000 | Significant | 24 |
| Campylobacter | PKU\_S\_vs\_PKU\_SP\_Adult | -0.83 | 0.000 | Significant | 25 |
| Capnocytophaga | PKU\_S\_vs\_PKU\_SP\_Adult | -1.53 | 0.001 | Significant | 25 |
| Prevotella | PKU\_S\_vs\_PKU\_SP\_Adult | 0.64 | 0.002 | Significant | 24 |
| Tannerella | PKU\_S\_vs\_PKU\_SP\_Adult | -1.84 | 0.004 | Significant | 25 |
| Lachnoanaerobaculum | PKU\_S\_vs\_PKU\_SP\_Adult | 1.29 | 0.007 | Significant | 24 |
| Olsenella | PKU\_S\_vs\_PKU\_SP\_Adult | -2.00 | 0.007 | Significant | 25 |
| Peptostreptococcus | PKU\_S\_vs\_PKU\_SP\_Adult | 1.84 | 0.019 | Significant | 24 |
| Oribacterium | PKU\_S\_vs\_PKU\_SP\_Adult | 1.06 | 0.025 | Significant | 24 |
| Lautropia | PKU\_S\_vs\_PKU\_SP\_Adult | -1.45 | 0.078 | Non-significant | 25 |
| Porphyromonas | PKU\_S\_vs\_PKU\_SP\_Adult | 0.87 | 0.099 | Non-significant | 24 |
| Kingella | PKU\_S\_vs\_PKU\_SP\_Adult | -1.49 | 0.180 | Non-significant | 25 |
| Peptococcus | PKU\_S\_vs\_PKU\_SP\_Adult | -2.00 | 0.340 | Non-significant | 25 |
| Aggregatibacter | PKU\_S\_vs\_PKU\_SP\_Adult | -1.27 | 0.690 | Non-significant | 25 |
| Leptotrichia | PKU\_S\_vs\_PKU\_SP\_Adult | -0.18 | 1.000 | Non-significant | 25 |
| Catonella | PKU\_S\_vs\_PKU\_SP\_Adult | 0.07 | 1.000 | Non-significant | 24 |
| Neisseria | PKU\_S\_vs\_PKU\_SP\_Adult | 0.56 | 1.000 | Non-significant | 24 |
| Fretibacterium | PKU\_S\_vs\_PKU\_SP\_Adult | -2.00 | 1.000 | Non-significant | 25 |
| F0332 | PKU\_S\_vs\_PKU\_SP\_Ch | -2.00 | 0.000 | Significant | 25 |
| Actinomyces | PKU\_S\_vs\_PKU\_SP\_Ch | -1.80 | 0.000 | Significant | 25 |
| Haemophilus | PKU\_S\_vs\_PKU\_SP\_Ch | 1.96 | 0.000 | Significant | 24 |
| Pseudopropionibacterium | PKU\_S\_vs\_PKU\_SP\_Ch | -2.00 | 0.000 | Significant | 25 |
| Olsenella | PKU\_S\_vs\_PKU\_SP\_Ch | -2.00 | 0.000 | Significant | 25 |
| Gemella | PKU\_S\_vs\_PKU\_SP\_Ch | 2.00 | 0.000 | Significant | 24 |
| Streptococcus | PKU\_S\_vs\_PKU\_SP\_Ch | 1.35 | 0.000 | Significant | 24 |
| Veillonella | PKU\_S\_vs\_PKU\_SP\_Ch | 1.32 | 0.000 | Significant | 24 |
| Selenomonas | PKU\_S\_vs\_PKU\_SP\_Ch | -2.00 | 0.000 | Significant | 25 |
| Corynebacterium | PKU\_S\_vs\_PKU\_SP\_Ch | -2.00 | 0.000 | Significant | 25 |
| Tannerella | PKU\_S\_vs\_PKU\_SP\_Ch | -2.00 | 0.000 | Significant | 25 |
| Cardiobacterium | PKU\_S\_vs\_PKU\_SP\_Ch | -2.00 | 0.000 | Significant | 25 |
| Neisseria | PKU\_S\_vs\_PKU\_SP\_Ch | 1.04 | 0.000 | Significant | 24 |
| Alloprevotella | PKU\_S\_vs\_PKU\_SP\_Ch | 1.11 | 0.000 | Significant | 24 |
| Campylobacter | PKU\_S\_vs\_PKU\_SP\_Ch | -0.97 | 0.000 | Significant | 25 |
| Fusobacterium | PKU\_S\_vs\_PKU\_SP\_Ch | -1.08 | 0.000 | Significant | 25 |
| Lachnoanaerobaculum | PKU\_S\_vs\_PKU\_SP\_Ch | 1.29 | 0.000 | Significant | 24 |
| Porphyromonas | PKU\_S\_vs\_PKU\_SP\_Ch | 1.11 | 0.000 | Significant | 24 |
| Fretibacterium | PKU\_S\_vs\_PKU\_SP\_Ch | -2.00 | 0.000 | Significant | 25 |
| Kingella | PKU\_S\_vs\_PKU\_SP\_Ch | -2.00 | 0.000 | Significant | 25 |
| Capnocytophaga | PKU\_S\_vs\_PKU\_SP\_Ch | -1.49 | 0.001 | Significant | 25 |
| Atopobium | PKU\_S\_vs\_PKU\_SP\_Ch | 1.47 | 0.001 | Significant | 24 |
| Prevotella | PKU\_S\_vs\_PKU\_SP\_Ch | 0.56 | 0.002 | Significant | 24 |
| Oribacterium | PKU\_S\_vs\_PKU\_SP\_Ch | 0.65 | 0.003 | Significant | 24 |
| Rothia | PKU\_S\_vs\_PKU\_SP\_Ch | 0.40 | 0.048 | Significant | 24 |
| Peptococcus | PKU\_S\_vs\_PKU\_SP\_Ch | -2.00 | 0.130 | Non-significant | 25 |
| Stomatobaculum | PKU\_S\_vs\_PKU\_SP\_Ch | 1.07 | 1.000 | Non-significant | 24 |
| Peptostreptococcus | PKU\_S\_vs\_PKU\_SP\_Ch | 1.83 | 1.000 | Non-significant | 24 |
| Leptotrichia | PKU\_S\_vs\_PKU\_SP\_Ch | 0.11 | 1.000 | Non-significant | 24 |
| Lautropia | PKU\_S\_vs\_PKU\_SP\_Ch | -0.93 | 1.000 | Non-significant | 25 |
| Catonella | PKU\_S\_vs\_PKU\_SP\_Ch | -0.18 | 1.000 | Non-significant | 25 |
| Aggregatibacter | PKU\_S\_vs\_PKU\_SP\_Ch | -0.62 | 1.000 | Non-significant | 25 |

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| Appendix Table 11. Correlation of alpha diversity and categorical clinical variables in saliva | | | | | |
| **taxa** | **comp** | **Log2mean ratio** | **qval** | **Alpha** | **Shape** |
| **Observed\_ASV** | VitD\_def\_vs\_No\_def\_CTRL | -0.13 | 1.00 | Non-significant | 25 |
| **Faith's Phylogenetic Diversity** | VitD\_def\_vs\_No\_def\_CTRL | -0.04 | 1.00 | Non-significant | 25 |
| **Shannon** | VitD\_def\_vs\_No\_def\_CTRL | -0.01 | 1.00 | Non-significant | 25 |
| **Pielou's evenness** | VitD\_def\_vs\_No\_def\_CTRL | 0.01 | 1.00 | Non-significant | 24 |
| **Observed\_ASV** | VitD\_def\_vs\_No\_def\_PKU | 0.20 | 1.00 | Non-significant | 24 |
| **Faith's Phylogenetic Diversity** | VitD\_def\_vs\_No\_def\_PKU | 0.16 | 0.33 | Non-significant | 24 |
| **Shannon** | VitD\_def\_vs\_No\_def\_PKU | 0.02 | 1.00 | Non-significant | 24 |
| **Pielou's evenness** | VitD\_def\_vs\_No\_def\_PKU | -0.02 | 0.91 | Non-significant | 25 |
| **Observed\_ASV** | Sw≥2\_vs\_Sw<2\_CTRL | 0.06 | 1.00 | Non-significant | 24 |
| **Faith's Phylogenetic Diversity** | Sw≥2\_vs\_Sw<2\_CTRL | 0.01 | 1.00 | Non-significant | 24 |
| **Shannon** | Sw≥2\_vs\_Sw<2\_CTRL | 0.02 | 1.00 | Non-significant | 24 |
| **Pielou's evenness** | Sw≥2\_vs\_Sw<2\_CTRL | 0.01 | 1.00 | Non-significant | 24 |
| **Observed\_ASV** | Sw≥2\_vs\_Sw<2\_PKU | -0.06 | 0.96 | Non-significant | 25 |
| **Faith's Phylogenetic Diversity** | Sw≥2\_vs\_Sw<2\_PKU | -0.08 | 0.28 | Non-significant | 25 |
| **Shannon** | Sw≥2\_vs\_Sw<2\_PKU | 0.03 | 1.00 | Non-significant | 24 |
| **Pielou's evenness** | Sw≥2\_vs\_Sw<2\_PKU | 0.04 | 0.01 | Significant | 24 |
| **Observed\_ASV** | Periodontitis\_vs\_no\_Periodontitis\_CTRL | -0.20 | 1.00 | Non-significant | 25 |
| **Faith's Phylogenetic Diversity** | Periodontitis\_vs\_no\_Periodontitis\_CTRL | -0.05 | 1.00 | Non-significant | 25 |
| **Shannon** | Periodontitis\_vs\_no\_Periodontitis\_CTRL | -0.03 | 1.00 | Non-significant | 25 |
| **Pielou's evenness** | Periodontitis\_vs\_no\_Periodontitis\_CTRL | 0.00 | 1.00 | Non-significant | 24 |
| **Observed\_ASV** | Periodontitis\_vs\_no\_Periodontitis\_PKU | 0.08 | 0.42 | Non-significant | 24 |
| **Faith's Phylogenetic Diversity** | Periodontitis\_vs\_no\_Periodontitis\_PKU | 0.17 | 0.01 | Significant | 24 |
| **Shannon** | Periodontitis\_vs\_no\_Periodontitis\_PKU | 0.05 | 0.11 | Non-significant | 24 |
| **Pielou's evenness** | Periodontitis\_vs\_no\_Periodontitis\_PKU | 0.02 | 0.15 | Non-significant | 24 |
| **Observed\_ASV** | DDE\_vs\_no\_DDE\_CTRL | 0.08 | 1.00 | Non-significant | 24 |
| **Faith's Phylogenetic Diversity** | DDE\_vs\_no\_DDE\_CTRL | 0.08 | 1.00 | Non-significant | 24 |
| **Shannon** | DDE\_vs\_no\_DDE\_CTRL | 0.03 | 1.00 | Non-significant | 24 |
| **Pielou's evenness** | DDE\_vs\_no\_DDE\_CTRL | 0.02 | 1.00 | Non-significant | 24 |
| **Observed\_ASV** | DDE\_vs\_no\_DDE\_PKU | -0.10 | 0.78 | Non-significant | 25 |
| **Faith's Phylogenetic Diversity** | DDE\_vs\_no\_DDE\_PKU | -0.06 | 0.88 | Non-significant | 25 |
| **Shannon** | DDE\_vs\_no\_DDE\_PKU | -0.02 | 0.88 | Non-significant | 25 |
| **Pielou's evenness** | DDE\_vs\_no\_DDE\_PKU | 0.00 | 1.00 | Non-significant | 24 |
| **Observed\_ASV** | PCR>0.2\_vs\_PCR<0.2\_CTRL | -0.17 | 0.76 | Non-significant | 25 |
| **Faith's Phylogenetic Diversity** | PCR>0.2\_vs\_PCR<0.2\_CTRL | -0.06 | 1.00 | Non-significant | 25 |
| **Shannon** | PCR>0.2\_vs\_PCR<0.2\_CTRL | -0.01 | 1.00 | Non-significant | 25 |
| **Pielou's evenness** | PCR>0.2\_vs\_PCR<0.2\_CTRL | 0.01 | 1.00 | Non-significant | 24 |
| **Observed\_ASV** | PCR>0.2\_vs\_PCR<0.2\_PKU | 0.13 | 0.11 | Non-significant | 24 |
| **Faith's Phylogenetic Diversity** | PCR>0.2\_vs\_PCR<0.2\_PKU | 0.12 | 0.07 | Non-significant | 24 |
| **Shannon** | PCR>0.2\_vs\_PCR<0.2\_PKU | 0.06 | 0.02 | Significant | 24 |
| **Pielou's evenness** | PCR>0.2\_vs\_PCR<0.2\_PKU | 0.03 | 0.04 | Significant | 24 |
| **Observed\_ASV** | Gingival\_bleed\_vs\_no\_bleed\_CTRL | 0.14 | 1.00 | Non-significant | 24 |
| **Faith's Phylogenetic Diversity** | Gingival\_bleed\_vs\_no\_bleed\_CTRL | 0.10 | 1.00 | Non-significant | 24 |
| **Shannon** | Gingival\_bleed\_vs\_no\_bleed\_CTRL | 0.00 | 1.00 | Non-significant | 24 |
| **Pielou's evenness** | Gingival\_bleed\_vs\_no\_bleed\_CTRL | -0.03 | 1.00 | Non-significant | 25 |
| **Observed\_ASV** | Gingival\_bleed\_vs\_no\_bleed\_PKU | 0.15 | 0.13 | Non-significant | 24 |
| **Faith's Phylogenetic Diversity** | Gingival\_bleed\_vs\_no\_bleed\_PKU | 0.20 | 0.00 | Significant | 24 |
| **Shannon** | Gingival\_bleed\_vs\_no\_bleed\_PKU | 0.07 | 0.02 | Significant | 24 |
| **Pielou's evenness** | Gingival\_bleed\_vs\_no\_bleed\_PKU | 0.03 | 0.10 | Non-significant | 24 |

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| Appendix Table 12. Correlation of alpha diversity and ordinal clinical variables in saliva | | | | | | | | | |
| **taxa** | | **var** | **rho** | **Qvalue** | | **Alpha** | | **Shape** | |
| **Observed\_ASV** | | BMI\_CTRL\_r | 0.19 | 2.20E-01 | | Non-significant | | 24 | |
| **Faith Phylogenetic Diversity** | | BMI\_CTRL\_r | 0.3 | 7.30E-03 | | Significant | | 24 | |
| **Shannon** | | BMI\_CTRL\_r | 0.14 | 6.00E-01 | | Non-significant | | 24 | |
| **PielouÔÇÿs evenness** | | BMI\_CTRL\_r | -0.05 | 1.00E+00 | | Non-significant | | 25 | |
| **Observed\_ASV** | | BMI\_PKU\_r | 0.12 | 8.60E-01 | | Non-significant | | 24 | |
| **Faith Phylogenetic Diversity** | | BMI\_PKU\_r | 0.23 | 6.60E-02 | | Non-significant | | 24 | |
| **Shannon** | | BMI\_PKU\_r | 0.17 | 3.20E-01 | | Non-significant | | 24 | |
| **PielouÔÇÿs evenness** | | BMI\_PKU\_r | 0.12 | 9.40E-01 | | Non-significant | | 24 | |
| **Observed\_ASV** | | DMFT\_CTRL\_r | 0.01 | 1.00E+00 | | Non-significant | | 24 | |
| **Faith Phylogenetic Diversity** | | DMFT\_CTRL\_r | 0.11 | 1.00E+00 | | Non-significant | | 24 | |
| **Shannon** | | DMFT\_CTRL\_r | 0.12 | 8.50E-01 | | Non-significant | | 24 | |
| **PielouÔÇÿs evenness** | | DMFT\_CTRL\_r | 0.16 | 4.60E-01 | | Non-significant | | 24 | |
| **Observed\_ASV** | | DMFT\_PKU\_r | 0.17 | 3.70E-01 | | Non-significant | | 24 | |
| **Faith Phylogenetic Diversity** | | DMFT\_PKU\_r | 0.35 | 1.10E-03 | | Significant | | 24 | |
| **Shannon** | | DMFT\_PKU\_r | 0.3 | 8.90E-03 | | Significant | | 24 | |
| **PielouÔÇÿs evenness** | | DMFT\_PKU\_r | 0.26 | 3.30E-02 | | Significant | | 24 | |
| **Observed\_ASV** | | PSI\_CTRL\_r | 0.01 | 1.00E+00 | | Non-significant | | 24 | |
| **Faith Phylogenetic Diversity** | | PSI\_CTRL\_r | 0.16 | 4.40E-01 | | Non-significant | | 24 | |
| **Shannon** | | PSI\_CTRL\_r | 0.05 | 1.00E+00 | | Non-significant | | 24 | |
| **PielouÔÇÿs evenness** | | PSI\_CTRL\_r | 0.11 | 1.00E+00 | | Non-significant | | 24 | |
| **Observed\_ASV** | | PSI\_PKU\_r | 0.13 | 8.00E-01 | | Non-significant | | 24 | |
| **Faith Phylogenetic Diversity** | | PSI\_PKU\_r | 0.3 | 7.50E-03 | | Significant | | 24 | |
| **Shannon** | | PSI\_PKU\_r | 0.18 | 2.70E-01 | | Non-significant | | 24 | |
| **PielouÔÇÿs evenness** | | PSI\_PKU\_r | 0.18 | 2.90E-01 | | Non-significant | | 24 | |
| **Observed\_ASV** | | PCR\_CTRL\_r | -0.16 | 4.50E-01 | | Non-significant | | 1 | |
| **Faith Phylogenetic Diversity** | | PCR\_CTRL\_r | -0.07 | 1.00E+00 | | Non-significant | | 1 | |
| **Shannon** | | PCR\_CTRL\_r | -0.08 | 1.00E+00 | | Non-significant | | 25 | |
| **PielouÔÇÿs evenness** | | PCR\_CTRL\_r | 0.1 | 1.00E+00 | | Non-significant | | 24 | |
| **Observed\_ASV** | | PCR\_PKU\_r | 0.15 | 5.60E-01 | | Non-significant | | 24 | |
| **Faith Phylogenetic Diversity** | | PCR\_PKU\_r | 0.24 | 6.30E-02 | | Non-significant | | 24 | |
| **Shannon** | | PCR\_PKU\_r | 0.31 | 5.30E-03 | | Significant | | 24 | |
| **PielouÔÇÿs evenness** | | PCR\_PKU\_r | 0.36 | 5.70E-04 | | Significant | | 24 | |
| **Observed\_ASV** | | GBI\_CTRL\_r | 0.04 | 1.00E+00 | | Non-significant | | 24 | |
| **Faith Phylogenetic Diversity** | | GBI\_CTRL\_r | 0.12 | 8.50E-01 | | Non-significant | | 24 | |
| **Shannon** | | GBI\_CTRL\_r | 0.07 | 1.00E+00 | | Non-significant | | 24 | |
| **PielouÔÇÿs evenness** | | GBI\_CTRL\_r | 0.07 | 1.00E+00 | | Non-significant | | 24 | |
| **Observed\_ASV** | | GBI\_PKU\_r | 0.19 | 2.00E-01 | | Non-significant | | 24 | |
| **Faith Phylogenetic Diversity** | | GBI\_PKU\_r | 0.3 | 7.10E-03 | | Significant | | 24 | |
| **Shannon** | | GBI\_PKU\_r | 0.32 | 3.70E-03 | | Significant | | 24 | |
| **PielouÔÇÿs evenness** | | GBI\_PKU\_r | 0.31 | 4.60E-03 | | Significant | | 24 | |
| Appendix Table 13. Correlation of taxon abundances and categorical clinical variables in saliva | | | | | | | | | | | |
| **taxa** | **comp** | | | | **Log2mean ratio** | | **qval** | | **Alpha** | | **Shape** |
| **Fusobacterium** | VitD\_def\_vs\_No\_def\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Actinomyces** | VitD\_def\_vs\_No\_def\_CTRL | | | | -0.08 | | 1.0E+00 | | Non-significant | | 25 |
| **Prevotella** | VitD\_def\_vs\_No\_def\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Neisseria** | VitD\_def\_vs\_No\_def\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Haemophilus** | VitD\_def\_vs\_No\_def\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Rothia** | VitD\_def\_vs\_No\_def\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Alloprevotella** | VitD\_def\_vs\_No\_def\_CTRL | | | | -0.08 | | 1.0E+00 | | Non-significant | | 25 |
| **Campylobacter** | VitD\_def\_vs\_No\_def\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Cardiobacterium** | VitD\_def\_vs\_No\_def\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Tannerella** | VitD\_def\_vs\_No\_def\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Veillonella** | VitD\_def\_vs\_No\_def\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Porphyromonas** | VitD\_def\_vs\_No\_def\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Streptococcus** | VitD\_def\_vs\_No\_def\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Lautropia** | VitD\_def\_vs\_No\_def\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Gemella** | VitD\_def\_vs\_No\_def\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Atopobium** | VitD\_def\_vs\_No\_def\_CTRL | | | | -0.10 | | 1.0E+00 | | Non-significant | | 25 |
| **Aggregatibacter** | VitD\_def\_vs\_No\_def\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Olsenella** | VitD\_def\_vs\_No\_def\_CTRL | | | | 0.08 | | 1.0E+00 | | Non-significant | | 24 |
| **Selenomonas** | VitD\_def\_vs\_No\_def\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Lachnoanaerobaculum** | VitD\_def\_vs\_No\_def\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Peptococcus** | VitD\_def\_vs\_No\_def\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Peptostreptococcus** | VitD\_def\_vs\_No\_def\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Leptotrichia** | VitD\_def\_vs\_No\_def\_CTRL | | | | 0.14 | | 1.0E+00 | | Non-significant | | 24 |
| **Fusobacterium** | VitD\_def\_vs\_No\_def\_PKU | | | | -0.01 | | 1.0E+00 | | Non-significant | | 25 |
| **Actinomyces** | VitD\_def\_vs\_No\_def\_PKU | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Prevotella** | VitD\_def\_vs\_No\_def\_PKU | | | | -0.16 | | 1.0E+00 | | Non-significant | | 25 |
| **Neisseria** | VitD\_def\_vs\_No\_def\_PKU | | | | 0.01 | | 1.0E+00 | | Non-significant | | 24 |
| **Haemophilus** | VitD\_def\_vs\_No\_def\_PKU | | | | -0.01 | | 1.0E+00 | | Non-significant | | 25 |
| **Rothia** | VitD\_def\_vs\_No\_def\_PKU | | | | 0.11 | | 1.0E+00 | | Non-significant | | 24 |
| **Alloprevotella** | VitD\_def\_vs\_No\_def\_PKU | | | | -0.19 | | 1.0E+00 | | Non-significant | | 25 |
| **Campylobacter** | VitD\_def\_vs\_No\_def\_PKU | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Cardiobacterium** | VitD\_def\_vs\_No\_def\_PKU | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Tannerella** | VitD\_def\_vs\_No\_def\_PKU | | | | 0.20 | | 2.5E-01 | | Non-significant | | 24 |
| **Veillonella** | VitD\_def\_vs\_No\_def\_PKU | | | | -0.10 | | 1.0E+00 | | Non-significant | | 25 |
| **Porphyromonas** | VitD\_def\_vs\_No\_def\_PKU | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Streptococcus** | VitD\_def\_vs\_No\_def\_PKU | | | | -0.08 | | 1.0E+00 | | Non-significant | | 25 |
| **Lautropia** | VitD\_def\_vs\_No\_def\_PKU | | | | -0.20 | | 9.4E-01 | | Non-significant | | 25 |
| **Gemella** | VitD\_def\_vs\_No\_def\_PKU | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Atopobium** | VitD\_def\_vs\_No\_def\_PKU | | | | -0.02 | | 1.0E+00 | | Non-significant | | 25 |
| **Aggregatibacter** | VitD\_def\_vs\_No\_def\_PKU | | | | 0.04 | | 1.0E+00 | | Non-significant | | 24 |
| **Olsenella** | VitD\_def\_vs\_No\_def\_PKU | | | | -0.17 | | 1.0E+00 | | Non-significant | | 25 |
| **Selenomonas** | VitD\_def\_vs\_No\_def\_PKU | | | | -0.04 | | 1.0E+00 | | Non-significant | | 25 |
| **Lachnoanaerobaculum** | VitD\_def\_vs\_No\_def\_PKU | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Peptococcus** | VitD\_def\_vs\_No\_def\_PKU | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Peptostreptococcus** | VitD\_def\_vs\_No\_def\_PKU | | | | 0.20 | | 9.2E-01 | | Non-significant | | 24 |
| **Leptotrichia** | VitD\_def\_vs\_No\_def\_PKU | | | | -0.14 | | 1.0E+00 | | Non-significant | | 25 |
| **Fusobacterium** | Sw≥2\_vs\_Sw<2\_CTRL | | | | -0.15 | | 1.0E+00 | | Non-significant | | 25 |
| **Actinomyces** | Sw≥2\_vs\_Sw<2\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Prevotella** | Sw≥2\_vs\_Sw<2\_CTRL | | | | -0.13 | | 1.0E+00 | | Non-significant | | 25 |
| **Neisseria** | Sw≥2\_vs\_Sw<2\_CTRL | | | | -0.09 | | 1.0E+00 | | Non-significant | | 25 |
| **Haemophilus** | Sw≥2\_vs\_Sw<2\_CTRL | | | | 0.11 | | 1.0E+00 | | Non-significant | | 24 |
| **Rothia** | Sw≥2\_vs\_Sw<2\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Alloprevotella** | Sw≥2\_vs\_Sw<2\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Campylobacter** | Sw≥2\_vs\_Sw<2\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Cardiobacterium** | Sw≥2\_vs\_Sw<2\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Tannerella** | Sw≥2\_vs\_Sw<2\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Veillonella** | Sw≥2\_vs\_Sw<2\_CTRL | | | | -0.17 | | 1.0E+00 | | Non-significant | | 25 |
| **Porphyromonas** | Sw≥2\_vs\_Sw<2\_CTRL | | | | -0.11 | | 1.0E+00 | | Non-significant | | 25 |
| **Streptococcus** | Sw≥2\_vs\_Sw<2\_CTRL | | | | 0.17 | | 1.0E+00 | | Non-significant | | 24 |
| **Lautropia** | Sw≥2\_vs\_Sw<2\_CTRL | | | | 0.02 | | 1.0E+00 | | Non-significant | | 24 |
| **Gemella** | Sw≥2\_vs\_Sw<2\_CTRL | | | | -0.16 | | 1.0E+00 | | Non-significant | | 25 |
| **Atopobium** | Sw≥2\_vs\_Sw<2\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Aggregatibacter** | Sw≥2\_vs\_Sw<2\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Olsenella** | Sw≥2\_vs\_Sw<2\_CTRL | | | | 0.16 | | 1.0E+00 | | Non-significant | | 24 |
| **Selenomonas** | Sw≥2\_vs\_Sw<2\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Lachnoanaerobaculum** | Sw≥2\_vs\_Sw<2\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Peptococcus** | Sw≥2\_vs\_Sw<2\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Peptostreptococcus** | Sw≥2\_vs\_Sw<2\_CTRL | | | | -0.20 | | 6.1E-02 | | Non-significant | | 25 |
| **Leptotrichia** | Sw≥2\_vs\_Sw<2\_CTRL | | | | -0.06 | | 1.0E+00 | | Non-significant | | 25 |
| **Fusobacterium** | Sw≥2\_vs\_Sw<2\_PKU | | | | 0.06 | | 1.0E+00 | | Non-significant | | 24 |
| **Actinomyces** | Sw≥2\_vs\_Sw<2\_PKU | | | | 0.19 | | 1.0E+00 | | Non-significant | | 24 |
| **Prevotella** | Sw≥2\_vs\_Sw<2\_PKU | | | | 0.14 | | 1.0E+00 | | Non-significant | | 24 |
| **Neisseria** | Sw≥2\_vs\_Sw<2\_PKU | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Haemophilus** | Sw≥2\_vs\_Sw<2\_PKU | | | | -0.15 | | 1.0E+00 | | Non-significant | | 25 |
| **Rothia** | Sw≥2\_vs\_Sw<2\_PKU | | | | -0.04 | | 1.0E+00 | | Non-significant | | 25 |
| **Alloprevotella** | Sw≥2\_vs\_Sw<2\_PKU | | | | 0.07 | | 1.0E+00 | | Non-significant | | 24 |
| **Campylobacter** | Sw≥2\_vs\_Sw<2\_PKU | | | | 0.04 | | 1.0E+00 | | Non-significant | | 24 |
| **Cardiobacterium** | Sw≥2\_vs\_Sw<2\_PKU | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Tannerella** | Sw≥2\_vs\_Sw<2\_PKU | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Veillonella** | Sw≥2\_vs\_Sw<2\_PKU | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Porphyromonas** | Sw≥2\_vs\_Sw<2\_PKU | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Streptococcus** | Sw≥2\_vs\_Sw<2\_PKU | | | | 0.20 | | 5.3E-01 | | Non-significant | | 24 |
| **Lautropia** | Sw≥2\_vs\_Sw<2\_PKU | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Gemella** | Sw≥2\_vs\_Sw<2\_PKU | | | | -0.03 | | 1.0E+00 | | Non-significant | | 25 |
| **Atopobium** | Sw≥2\_vs\_Sw<2\_PKU | | | | 0.20 | | 7.4E-01 | | Non-significant | | 24 |
| **Aggregatibacter** | Sw≥2\_vs\_Sw<2\_PKU | | | | -0.12 | | 1.0E+00 | | Non-significant | | 25 |
| **Olsenella** | Sw≥2\_vs\_Sw<2\_PKU | | | | -0.01 | | 1.0E+00 | | Non-significant | | 25 |
| **Selenomonas** | Sw≥2\_vs\_Sw<2\_PKU | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Lachnoanaerobaculum** | Sw≥2\_vs\_Sw<2\_PKU | | | | 0.17 | | 1.0E+00 | | Non-significant | | 24 |
| **Peptococcus** | Sw≥2\_vs\_Sw<2\_PKU | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Peptostreptococcus** | Sw≥2\_vs\_Sw<2\_PKU | | | | -0.20 | | 2.9E-01 | | Non-significant | | 25 |
| **Leptotrichia** | Sw≥2\_vs\_Sw<2\_PKU | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Fusobacterium** | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | 0.07 | | 1.0E+00 | | Non-significant | | 24 |
| **Actinomyces** | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | 0.10 | | 1.0E+00 | | Non-significant | | 24 |
| **Prevotella** | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Neisseria** | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Haemophilus** | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Rothia** | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Alloprevotella** | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Campylobacter** | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | -0.18 | | 1.0E+00 | | Non-significant | | 25 |
| **Cardiobacterium** | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Tannerella** | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Veillonella** | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Porphyromonas** | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Streptococcus** | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Lautropia** | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Gemella** | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | -0.16 | | 1.0E+00 | | Non-significant | | 25 |
| **Atopobium** | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | 0.20 | | 6.0E-01 | | Non-significant | | 24 |
| **Aggregatibacter** | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | -0.20 | | 9.5E-01 | | Non-significant | | 25 |
| **Olsenella** | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Selenomonas** | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Lachnoanaerobaculum** | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | -0.04 | | 1.0E+00 | | Non-significant | | 25 |
| **Peptococcus** | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Peptostreptococcus** | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Leptotrichia** | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Fusobacterium** | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Actinomyces** | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | 0.05 | | 1.0E+00 | | Non-significant | | 24 |
| **Prevotella** | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | -0.05 | | 1.0E+00 | | Non-significant | | 25 |
| **Neisseria** | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Haemophilus** | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | -0.20 | | 5.4E-01 | | Non-significant | | 25 |
| **Rothia** | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | 0.01 | | 1.0E+00 | | Non-significant | | 24 |
| **Alloprevotella** | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | 0.13 | | 1.0E+00 | | Non-significant | | 24 |
| **Campylobacter** | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Cardiobacterium** | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Tannerella** | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | 0.20 | | 1.6E-02 | | Significant | | 24 |
| **Veillonella** | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Porphyromonas** | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Streptococcus** | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | 0.20 | | 3.2E-01 | | Non-significant | | 24 |
| **Lautropia** | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Gemella** | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Atopobium** | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | -0.13 | | 1.0E+00 | | Non-significant | | 25 |
| **Aggregatibacter** | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Olsenella** | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | 0.20 | | 2.9E-02 | | Significant | | 24 |
| **Selenomonas** | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Lachnoanaerobaculum** | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Peptococcus** | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Peptostreptococcus** | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Leptotrichia** | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | -0.07 | | 1.0E+00 | | Non-significant | | 25 |
| **Fusobacterium** | DDE\_vs\_no\_DDE\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Actinomyces** | DDE\_vs\_no\_DDE\_CTRL | | | | -0.05 | | 1.0E+00 | | Non-significant | | 25 |
| **Prevotella** | DDE\_vs\_no\_DDE\_CTRL | | | | -0.13 | | 1.0E+00 | | Non-significant | | 25 |
| **Neisseria** | DDE\_vs\_no\_DDE\_CTRL | | | | -0.02 | | 1.0E+00 | | Non-significant | | 25 |
| **Haemophilus** | DDE\_vs\_no\_DDE\_CTRL | | | | -0.12 | | 1.0E+00 | | Non-significant | | 25 |
| **Rothia** | DDE\_vs\_no\_DDE\_CTRL | | | | -0.16 | | 1.0E+00 | | Non-significant | | 25 |
| **Alloprevotella** | DDE\_vs\_no\_DDE\_CTRL | | | | 0.12 | | 1.0E+00 | | Non-significant | | 24 |
| **Campylobacter** | DDE\_vs\_no\_DDE\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Cardiobacterium** | DDE\_vs\_no\_DDE\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Tannerella** | DDE\_vs\_no\_DDE\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Veillonella** | DDE\_vs\_no\_DDE\_CTRL | | | | -0.01 | | 1.0E+00 | | Non-significant | | 25 |
| **Porphyromonas** | DDE\_vs\_no\_DDE\_CTRL | | | | 0.01 | | 1.0E+00 | | Non-significant | | 24 |
| **Streptococcus** | DDE\_vs\_no\_DDE\_CTRL | | | | -0.19 | | 1.0E+00 | | Non-significant | | 25 |
| **Lautropia** | DDE\_vs\_no\_DDE\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Gemella** | DDE\_vs\_no\_DDE\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Atopobium** | DDE\_vs\_no\_DDE\_CTRL | | | | 0.08 | | 1.0E+00 | | Non-significant | | 24 |
| **Aggregatibacter** | DDE\_vs\_no\_DDE\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Olsenella** | DDE\_vs\_no\_DDE\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Selenomonas** | DDE\_vs\_no\_DDE\_CTRL | | | | 0.19 | | 1.0E+00 | | Non-significant | | 24 |
| **Lachnoanaerobaculum** | DDE\_vs\_no\_DDE\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Peptococcus** | DDE\_vs\_no\_DDE\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Peptostreptococcus** | DDE\_vs\_no\_DDE\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Leptotrichia** | DDE\_vs\_no\_DDE\_CTRL | | | | 0.05 | | 1.0E+00 | | Non-significant | | 24 |
| **Fusobacterium** | DDE\_vs\_no\_DDE\_PKU | | | | 0.03 | | 1.0E+00 | | Non-significant | | 24 |
| **Actinomyces** | DDE\_vs\_no\_DDE\_PKU | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Prevotella** | DDE\_vs\_no\_DDE\_PKU | | | | 0.06 | | 1.0E+00 | | Non-significant | | 24 |
| **Neisseria** | DDE\_vs\_no\_DDE\_PKU | | | | -0.12 | | 1.0E+00 | | Non-significant | | 25 |
| **Haemophilus** | DDE\_vs\_no\_DDE\_PKU | | | | 0.09 | | 1.0E+00 | | Non-significant | | 24 |
| **Rothia** | DDE\_vs\_no\_DDE\_PKU | | | | 0.20 | | 2.8E-01 | | Non-significant | | 24 |
| **Alloprevotella** | DDE\_vs\_no\_DDE\_PKU | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Campylobacter** | DDE\_vs\_no\_DDE\_PKU | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Cardiobacterium** | DDE\_vs\_no\_DDE\_PKU | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Tannerella** | DDE\_vs\_no\_DDE\_PKU | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Veillonella** | DDE\_vs\_no\_DDE\_PKU | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Porphyromonas** | DDE\_vs\_no\_DDE\_PKU | | | | -0.20 | | 4.9E-01 | | Non-significant | | 25 |
| **Streptococcus** | DDE\_vs\_no\_DDE\_PKU | | | | 0.02 | | 1.0E+00 | | Non-significant | | 24 |
| **Lautropia** | DDE\_vs\_no\_DDE\_PKU | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Gemella** | DDE\_vs\_no\_DDE\_PKU | | | | 0.17 | | 1.0E+00 | | Non-significant | | 24 |
| **Atopobium** | DDE\_vs\_no\_DDE\_PKU | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Aggregatibacter** | DDE\_vs\_no\_DDE\_PKU | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Olsenella** | DDE\_vs\_no\_DDE\_PKU | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Selenomonas** | DDE\_vs\_no\_DDE\_PKU | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Lachnoanaerobaculum** | DDE\_vs\_no\_DDE\_PKU | | | | 0.09 | | 1.0E+00 | | Non-significant | | 24 |
| **Peptococcus** | DDE\_vs\_no\_DDE\_PKU | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Peptostreptococcus** | DDE\_vs\_no\_DDE\_PKU | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Leptotrichia** | DDE\_vs\_no\_DDE\_PKU | | | | -0.17 | | 1.0E+00 | | Non-significant | | 25 |
| **Fusobacterium** | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | 0.03 | | 1.0E+00 | | Non-significant | | 24 |
| **Actinomyces** | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | 0.01 | | 1.0E+00 | | Non-significant | | 24 |
| **Prevotella** | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Neisseria** | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Haemophilus** | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Rothia** | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | 0.01 | | 1.0E+00 | | Non-significant | | 24 |
| **Alloprevotella** | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | 0.01 | | 1.0E+00 | | Non-significant | | 24 |
| **Campylobacter** | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | 0.10 | | 1.0E+00 | | Non-significant | | 24 |
| **Cardiobacterium** | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Tannerella** | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Veillonella** | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Porphyromonas** | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | -0.13 | | 1.0E+00 | | Non-significant | | 25 |
| **Streptococcus** | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Lautropia** | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Gemella** | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Atopobium** | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Aggregatibacter** | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | -0.20 | | 5.8E-01 | | Non-significant | | 25 |
| **Olsenella** | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Selenomonas** | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | -0.04 | | 1.0E+00 | | Non-significant | | 25 |
| **Lachnoanaerobaculum** | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | 0.09 | | 1.0E+00 | | Non-significant | | 24 |
| **Peptococcus** | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Peptostreptococcus** | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Leptotrichia** | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | 0.01 | | 1.0E+00 | | Non-significant | | 24 |
| **Fusobacterium** | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | -0.11 | | 1.0E+00 | | Non-significant | | 25 |
| **Actinomyces** | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Prevotella** | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | -0.08 | | 1.0E+00 | | Non-significant | | 25 |
| **Neisseria** | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | -0.18 | | 1.0E+00 | | Non-significant | | 25 |
| **Haemophilus** | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | -0.20 | | 6.0E-01 | | Non-significant | | 25 |
| **Rothia** | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | 0.15 | | 1.0E+00 | | Non-significant | | 24 |
| **Alloprevotella** | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | 0.07 | | 1.0E+00 | | Non-significant | | 24 |
| **Campylobacter** | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | 0.02 | | 1.0E+00 | | Non-significant | | 24 |
| **Cardiobacterium** | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Tannerella** | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | 0.20 | | 4.4E-01 | | Non-significant | | 24 |
| **Veillonella** | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | -0.14 | | 1.0E+00 | | Non-significant | | 25 |
| **Porphyromonas** | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | -0.02 | | 1.0E+00 | | Non-significant | | 25 |
| **Streptococcus** | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Lautropia** | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | -0.07 | | 1.0E+00 | | Non-significant | | 25 |
| **Gemella** | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Atopobium** | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Aggregatibacter** | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | 0.20 | | 1.4E-01 | | Non-significant | | 24 |
| **Olsenella** | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Selenomonas** | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Lachnoanaerobaculum** | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | -0.13 | | 1.0E+00 | | Non-significant | | 25 |
| **Peptococcus** | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | 0.15 | | 1.0E+00 | | Non-significant | | 24 |
| **Peptostreptococcus** | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Leptotrichia** | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | -0.18 | | 1.0E+00 | | Non-significant | | 25 |
| **Fusobacterium** | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | 0.03 | | 1.0E+00 | | Non-significant | | 24 |
| **Actinomyces** | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | 0.20 | | 9.5E-01 | | Non-significant | | 24 |
| **Prevotella** | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | 0.04 | | 1.0E+00 | | Non-significant | | 24 |
| **Neisseria** | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | -0.16 | | 1.0E+00 | | Non-significant | | 25 |
| **Haemophilus** | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Rothia** | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Alloprevotella** | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | -0.06 | | 1.0E+00 | | Non-significant | | 25 |
| **Campylobacter** | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Cardiobacterium** | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Tannerella** | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Veillonella** | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Porphyromonas** | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Streptococcus** | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | 0.10 | | 1.0E+00 | | Non-significant | | 24 |
| **Lautropia** | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | 0.09 | | 1.0E+00 | | Non-significant | | 24 |
| **Gemella** | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Atopobium** | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Aggregatibacter** | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Olsenella** | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Selenomonas** | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Lachnoanaerobaculum** | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Peptococcus** | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Peptostreptococcus** | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Leptotrichia** | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Fusobacterium** | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | -0.10 | | 1.0E+00 | | Non-significant | | 25 |
| **Actinomyces** | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Prevotella** | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | 0.05 | | 1.0E+00 | | Non-significant | | 24 |
| **Neisseria** | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | -0.20 | | 3.0E-01 | | Non-significant | | 25 |
| **Haemophilus** | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | -0.20 | | 5.4E-01 | | Non-significant | | 25 |
| **Rothia** | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | 0.00 | | 1.0E+00 | | Non-significant | | 25 |
| **Alloprevotella** | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Campylobacter** | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | -0.15 | | 1.0E+00 | | Non-significant | | 25 |
| **Cardiobacterium** | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Tannerella** | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | 0.20 | | 1.4E-02 | | Significant | | 24 |
| **Veillonella** | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | 0.00 | | 1.0E+00 | | Non-significant | | 25 |
| **Porphyromonas** | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | 0.03 | | 1.0E+00 | | Non-significant | | 24 |
| **Streptococcus** | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Lautropia** | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Gemella** | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | 0.03 | | 1.0E+00 | | Non-significant | | 24 |
| **Atopobium** | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Aggregatibacter** | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | 0.04 | | 1.0E+00 | | Non-significant | | 24 |
| **Olsenella** | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | 0.20 | | 1.2E-01 | | Non-significant | | 24 |
| **Selenomonas** | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Lachnoanaerobaculum** | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | -0.20 | | 1.0E+00 | | Non-significant | | 25 |
| **Peptococcus** | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Peptostreptococcus** | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | 0.20 | | 1.0E+00 | | Non-significant | | 24 |
| **Leptotrichia** | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | -0.19 | | 1.0E+00 | | Non-significant | | 25 |

*Appendix Table 14. Correlation of taxon abundances and ordinal clinical variables in saliva\_revised*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| taxa | | | var | | | | rho | | Qvalue | | | | | Alpha | | | | | Shape | | | | |
| Olsenella | | | BMI\_CTRL\_r | | | | 0.36 | | 0.00 | | | | | Significant | | | | | 24 | | | | |
| Atopobium | | | BMI\_CTRL\_r | | | | 0.35 | | 0.01 | | | | | Significant | | | | | 24 | | | | |
| Neisseria | | | BMI\_CTRL\_r | | | | -0.30 | | 0.04 | | | | | Significant | | | | | 25 | | | | |
| Lautropia | | | BMI\_CTRL\_r | | | | -0.25 | | 0.22 | | | | | Non-significant | | | | | 25 | | | | |
| Actinomyces | | | BMI\_CTRL\_r | | | | 0.23 | | 0.49 | | | | | Non-significant | | | | | 24 | | | | |
| Tannerella | | | BMI\_CTRL\_r | | | | 0.20 | | 0.90 | | | | | Non-significant | | | | | 24 | | | | |
| Fusobacterium | | | BMI\_CTRL\_r | | | | -0.04 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Prevotella | | | BMI\_CTRL\_r | | | | 0.17 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Haemophilus | | | BMI\_CTRL\_r | | | | -0.05 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Rothia | | | BMI\_CTRL\_r | | | | 0.08 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Alloprevotella | | | BMI\_CTRL\_r | | | | 0.04 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Campylobacter | | | BMI\_CTRL\_r | | | | 0.14 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Cardiobacterium | | | BMI\_CTRL\_r | | | | 0.08 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Veillonella | | | BMI\_CTRL\_r | | | | 0.00 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Porphyromonas | | | BMI\_CTRL\_r | | | | -0.05 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Streptococcus | | | BMI\_CTRL\_r | | | | 0.01 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Gemella | | | BMI\_CTRL\_r | | | | -0.08 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Aggregatibacter | | | BMI\_CTRL\_r | | | | -0.13 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Selenomonas | | | BMI\_CTRL\_r | | | | -0.02 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Lachnoanaerobaculum | | | BMI\_CTRL\_r | | | | -0.15 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Peptococcus | | | BMI\_CTRL\_r | | | | 0.00 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Peptostreptococcus | | | BMI\_CTRL\_r | | | | 0.11 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Leptotrichia | | | BMI\_CTRL\_r | | | | -0.08 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Olsenella | | | BMI\_PKU\_r | | | | 0.34 | | 0.01 | | | | | Significant | | | | | 24 | | | | |
| Tannerella | | | BMI\_PKU\_r | | | | 0.32 | | 0.02 | | | | | Significant | | | | | 24 | | | | |
| Actinomyces | | | BMI\_PKU\_r | | | | 0.22 | | 0.50 | | | | | Non-significant | | | | | 24 | | | | |
| Haemophilus | | | BMI\_PKU\_r | | | | -0.20 | | 0.92 | | | | | Non-significant | | | | | 25 | | | | |
| Neisseria | | | BMI\_PKU\_r | | | | -0.20 | | 0.94 | | | | | Non-significant | | | | | 25 | | | | |
| Fusobacterium | | | BMI\_PKU\_r | | | | -0.19 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Prevotella | | | BMI\_PKU\_r | | | | 0.04 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Rothia | | | BMI\_PKU\_r | | | | 0.11 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Alloprevotella | | | BMI\_PKU\_r | | | | 0.02 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Campylobacter | | | BMI\_PKU\_r | | | | 0.12 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Cardiobacterium | | | BMI\_PKU\_r | | | | 0.16 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Veillonella | | | BMI\_PKU\_r | | | | -0.04 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Porphyromonas | | | BMI\_PKU\_r | | | | -0.12 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Streptococcus | | | BMI\_PKU\_r | | | | 0.17 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Lautropia | | | BMI\_PKU\_r | | | | -0.04 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Gemella | | | BMI\_PKU\_r | | | | -0.17 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Atopobium | | | BMI\_PKU\_r | | | | 0.14 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Aggregatibacter | | | BMI\_PKU\_r | | | | 0.02 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Selenomonas | | | BMI\_PKU\_r | | | | 0.19 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Lachnoanaerobaculum | | | BMI\_PKU\_r | | | | -0.15 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Peptococcus | | | BMI\_PKU\_r | | | | 0.13 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Peptostreptococcus | | | BMI\_PKU\_r | | | | 0.18 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Leptotrichia | | | BMI\_PKU\_r | | | | -0.09 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Prevotella | | | DMFT\_CTRL\_r | | | | 0.36 | | 0.00 | | | | | Significant | | | | | 24 | | | | |
| Neisseria | | | DMFT\_CTRL\_r | | | | -0.35 | | 0.01 | | | | | Significant | | | | | 25 | | | | |
| Atopobium | | | DMFT\_CTRL\_r | | | | 0.32 | | 0.02 | | | | | Significant | | | | | 24 | | | | |
| Campylobacter | | | DMFT\_CTRL\_r | | | | 0.29 | | 0.07 | | | | | Non-significant | | | | | 24 | | | | |
| Lautropia | | | DMFT\_CTRL\_r | | | | -0.26 | | 0.19 | | | | | Non-significant | | | | | 25 | | | | |
| Actinomyces | | | DMFT\_CTRL\_r | | | | 0.22 | | 0.60 | | | | | Non-significant | | | | | 24 | | | | |
| Fusobacterium | | | DMFT\_CTRL\_r | | | | -0.02 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Haemophilus | | | DMFT\_CTRL\_r | | | | -0.13 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Rothia | | | DMFT\_CTRL\_r | | | | 0.06 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Alloprevotella | | | DMFT\_CTRL\_r | | | | 0.06 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Cardiobacterium | | | DMFT\_CTRL\_r | | | | -0.11 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Tannerella | | | DMFT\_CTRL\_r | | | | 0.02 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Veillonella | | | DMFT\_CTRL\_r | | | | 0.15 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Porphyromonas | | | DMFT\_CTRL\_r | | | | -0.19 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Streptococcus | | | DMFT\_CTRL\_r | | | | -0.07 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Gemella | | | DMFT\_CTRL\_r | | | | -0.16 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Aggregatibacter | | | DMFT\_CTRL\_r | | | | -0.12 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Olsenella | | | DMFT\_CTRL\_r | | | | 0.10 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Selenomonas | | | DMFT\_CTRL\_r | | | | 0.07 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Lachnoanaerobaculum | | | DMFT\_CTRL\_r | | | | 0.11 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Peptococcus | | | DMFT\_CTRL\_r | | | | 0.04 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Peptostreptococcus | | | DMFT\_CTRL\_r | | | | 0.11 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Leptotrichia | | | DMFT\_CTRL\_r | | | | -0.05 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Haemophilus | | | DMFT\_PKU\_r | | | | -0.36 | | 0.00 | | | | | Significant | | | | | 25 | | | | |
| Olsenella | | | DMFT\_PKU\_r | | | | 0.35 | | 0.01 | | | | | Significant | | | | | 24 | | | | |
| Tannerella | | | DMFT\_PKU\_r | | | | 0.30 | | 0.04 | | | | | Significant | | | | | 24 | | | | |
| Neisseria | | | DMFT\_PKU\_r | | | | -0.26 | | 0.18 | | | | | Non-significant | | | | | 25 | | | | |
| Actinomyces | | | DMFT\_PKU\_r | | | | 0.23 | | 0.37 | | | | | Non-significant | | | | | 24 | | | | |
| Atopobium | | | DMFT\_PKU\_r | | | | 0.23 | | 0.39 | | | | | Non-significant | | | | | 24 | | | | |
| Lachnoanaerobaculum | | | DMFT\_PKU\_r | | | | -0.21 | | 0.71 | | | | | Non-significant | | | | | 25 | | | | |
| Fusobacterium | | | DMFT\_PKU\_r | | | | -0.19 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Prevotella | | | DMFT\_PKU\_r | | | | 0.05 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Rothia | | | DMFT\_PKU\_r | | | | 0.11 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Alloprevotella | | | DMFT\_PKU\_r | | | | 0.00 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Campylobacter | | | DMFT\_PKU\_r | | | | 0.11 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Cardiobacterium | | | DMFT\_PKU\_r | | | | 0.15 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Veillonella | | | DMFT\_PKU\_r | | | | 0.03 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Porphyromonas | | | DMFT\_PKU\_r | | | | -0.07 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Streptococcus | | | DMFT\_PKU\_r | | | | 0.18 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Lautropia | | | DMFT\_PKU\_r | | | | 0.03 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Gemella | | | DMFT\_PKU\_r | | | | -0.18 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Aggregatibacter | | | DMFT\_PKU\_r | | | | 0.02 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Selenomonas | | | DMFT\_PKU\_r | | | | 0.14 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Peptococcus | | | DMFT\_PKU\_r | | | | 0.11 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Peptostreptococcus | | | DMFT\_PKU\_r | | | | 0.06 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Leptotrichia | | | DMFT\_PKU\_r | | | | -0.08 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Atopobium | | | GBI\_CTRL\_r | | | | 0.23 | | 0.49 | | | | | Non-significant | | | | | 24 | | | | |
| Prevotella | | | GBI\_CTRL\_r | | | | 0.22 | | 0.60 | | | | | Non-significant | | | | | 24 | | | | |
| Fusobacterium | | | GBI\_CTRL\_r | | | | 0.04 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Actinomyces | | | GBI\_CTRL\_r | | | | 0.06 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Neisseria | | | GBI\_CTRL\_r | | | | -0.12 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Haemophilus | | | GBI\_CTRL\_r | | | | -0.08 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Rothia | | | GBI\_CTRL\_r | | | | -0.03 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Alloprevotella | | | GBI\_CTRL\_r | | | | 0.02 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Campylobacter | | | GBI\_CTRL\_r | | | | 0.17 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Cardiobacterium | | | GBI\_CTRL\_r | | | | -0.04 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Tannerella | | | GBI\_CTRL\_r | | | | 0.15 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Veillonella | | | GBI\_CTRL\_r | | | | 0.15 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Porphyromonas | | | GBI\_CTRL\_r | | | | -0.14 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Streptococcus | | | GBI\_CTRL\_r | | | | -0.07 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Lautropia | | | GBI\_CTRL\_r | | | | -0.18 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Gemella | | | GBI\_CTRL\_r | | | | -0.02 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Aggregatibacter | | | GBI\_CTRL\_r | | | | -0.16 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Olsenella | | | GBI\_CTRL\_r | | | | 0.05 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Selenomonas | | | GBI\_CTRL\_r | | | | 0.10 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Lachnoanaerobaculum | | | GBI\_CTRL\_r | | | | 0.07 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Peptococcus | | | GBI\_CTRL\_r | | | | -0.01 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Peptostreptococcus | | | GBI\_CTRL\_r | | | | 0.10 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Leptotrichia | | | GBI\_CTRL\_r | | | | -0.05 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Tannerella | | | GBI\_PKU\_r | | | | 0.36 | | 0.00 | | | | | Significant | | | | | 24 | | | | |
| Haemophilus | | | GBI\_PKU\_r | | | | -0.34 | | 0.01 | | | | | Significant | | | | | 25 | | | | |
| Streptococcus | | | GBI\_PKU\_r | | | | 0.31 | | 0.03 | | | | | Significant | | | | | 24 | | | | |
| Neisseria | | | GBI\_PKU\_r | | | | -0.27 | | 0.11 | | | | | Non-significant | | | | | 25 | | | | |
| Lachnoanaerobaculum | | | GBI\_PKU\_r | | | | -0.27 | | 0.13 | | | | | Non-significant | | | | | 25 | | | | |
| Actinomyces | | | GBI\_PKU\_r | | | | 0.23 | | 0.45 | | | | | Non-significant | | | | | 24 | | | | |
| Fusobacterium | | | GBI\_PKU\_r | | | | -0.22 | | 0.50 | | | | | Non-significant | | | | | 25 | | | | |
| Olsenella | | | GBI\_PKU\_r | | | | 0.22 | | 0.52 | | | | | Non-significant | | | | | 24 | | | | |
| Prevotella | | | GBI\_PKU\_r | | | | 0.03 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Rothia | | | GBI\_PKU\_r | | | | 0.12 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Alloprevotella | | | GBI\_PKU\_r | | | | 0.15 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Campylobacter | | | GBI\_PKU\_r | | | | -0.04 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Cardiobacterium | | | GBI\_PKU\_r | | | | 0.14 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Veillonella | | | GBI\_PKU\_r | | | | 0.03 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Porphyromonas | | | GBI\_PKU\_r | | | | -0.04 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Lautropia | | | GBI\_PKU\_r | | | | -0.02 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Gemella | | | GBI\_PKU\_r | | | | -0.10 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Atopobium | | | GBI\_PKU\_r | | | | 0.09 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Aggregatibacter | | | GBI\_PKU\_r | | | | 0.10 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Selenomonas | | | GBI\_PKU\_r | | | | 0.06 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Peptococcus | | | GBI\_PKU\_r | | | | -0.06 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Peptostreptococcus | | | GBI\_PKU\_r | | | | -0.06 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Leptotrichia | | | GBI\_PKU\_r | | | | -0.19 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Aggregatibacter | | | PCR\_CTRL\_r | | | | -0.28 | | 0.09 | | | | | Non-significant | | | | | 25 | | | | |
| Lautropia | | | PCR\_CTRL\_r | | | | -0.26 | | 0.20 | | | | | Non-significant | | | | | 25 | | | | |
| Fusobacterium | | | PCR\_CTRL\_r | | | | 0.10 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Actinomyces | | | PCR\_CTRL\_r | | | | -0.05 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Prevotella | | | PCR\_CTRL\_r | | | | 0.17 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Neisseria | | | PCR\_CTRL\_r | | | | -0.12 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Haemophilus | | | PCR\_CTRL\_r | | | | -0.09 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Rothia | | | PCR\_CTRL\_r | | | | -0.09 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Alloprevotella | | | PCR\_CTRL\_r | | | | -0.10 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Campylobacter | | | PCR\_CTRL\_r | | | | 0.17 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Cardiobacterium | | | PCR\_CTRL\_r | | | | -0.14 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Tannerella | | | PCR\_CTRL\_r | | | | -0.05 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Veillonella | | | PCR\_CTRL\_r | | | | 0.16 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Porphyromonas | | | PCR\_CTRL\_r | | | | -0.09 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Streptococcus | | | PCR\_CTRL\_r | | | | 0.03 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Gemella | | | PCR\_CTRL\_r | | | | -0.02 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Atopobium | | | PCR\_CTRL\_r | | | | 0.12 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Olsenella | | | PCR\_CTRL\_r | | | | -0.03 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Selenomonas | | | PCR\_CTRL\_r | | | | 0.01 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Lachnoanaerobaculum | | | PCR\_CTRL\_r | | | | 0.13 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Peptococcus | | | PCR\_CTRL\_r | | | | 0.05 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Peptostreptococcus | | | PCR\_CTRL\_r | | | | 0.00 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Leptotrichia | | | PCR\_CTRL\_r | | | | -0.02 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Tannerella | | | PCR\_PKU\_r | | | | 0.31 | | 0.03 | | | | | Significant | | | | | 24 | | | | |
| Haemophilus | | | PCR\_PKU\_r | | | | -0.29 | | 0.05 | | | | | Non-significant | | | | | 25 | | | | |
| Gemella | | | PCR\_PKU\_r | | | | -0.27 | | 0.14 | | | | | Non-significant | | | | | 25 | | | | |
| Neisseria | | | PCR\_PKU\_r | | | | -0.26 | | 0.15 | | | | | Non-significant | | | | | 25 | | | | |
| Aggregatibacter | | | PCR\_PKU\_r | | | | 0.20 | | 0.92 | | | | | Non-significant | | | | | 24 | | | | |
| Fusobacterium | | | PCR\_PKU\_r | | | | -0.14 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Actinomyces | | | PCR\_PKU\_r | | | | 0.03 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Prevotella | | | PCR\_PKU\_r | | | | 0.10 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Rothia | | | PCR\_PKU\_r | | | | -0.01 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Alloprevotella | | | PCR\_PKU\_r | | | | 0.14 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Campylobacter | | | PCR\_PKU\_r | | | | 0.10 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Cardiobacterium | | | PCR\_PKU\_r | | | | 0.13 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Veillonella | | | PCR\_PKU\_r | | | | 0.04 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Porphyromonas | | | PCR\_PKU\_r | | | | -0.02 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Streptococcus | | | PCR\_PKU\_r | | | | 0.15 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Lautropia | | | PCR\_PKU\_r | | | | -0.11 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Atopobium | | | PCR\_PKU\_r | | | | 0.07 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Olsenella | | | PCR\_PKU\_r | | | | 0.20 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Selenomonas | | | PCR\_PKU\_r | | | | 0.11 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Lachnoanaerobaculum | | | PCR\_PKU\_r | | | | -0.07 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Peptococcus | | | PCR\_PKU\_r | | | | 0.02 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Peptostreptococcus | | | PCR\_PKU\_r | | | | -0.05 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Leptotrichia | | | PCR\_PKU\_r | | | | -0.11 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Tannerella | | | PSI\_CTRL\_r | | | | 0.22 | | 0.51 | | | | | Non-significant | | | | | 24 | | | | |
| Haemophilus | | | PSI\_CTRL\_r | | | | -0.21 | | 0.66 | | | | | Non-significant | | | | | 25 | | | | |
| Fusobacterium | | | PSI\_CTRL\_r | | | | 0.15 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Actinomyces | | | PSI\_CTRL\_r | | | | 0.03 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Prevotella | | | PSI\_CTRL\_r | | | | 0.09 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Neisseria | | | PSI\_CTRL\_r | | | | -0.10 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Rothia | | | PSI\_CTRL\_r | | | | -0.08 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Alloprevotella | | | PSI\_CTRL\_r | | | | 0.03 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Campylobacter | | | PSI\_CTRL\_r | | | | 0.07 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Cardiobacterium | | | PSI\_CTRL\_r | | | | -0.05 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Veillonella | | | PSI\_CTRL\_r | | | | 0.06 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Porphyromonas | | | PSI\_CTRL\_r | | | | -0.03 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Streptococcus | | | PSI\_CTRL\_r | | | | -0.12 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Lautropia | | | PSI\_CTRL\_r | | | | -0.14 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Gemella | | | PSI\_CTRL\_r | | | | -0.02 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Atopobium | | | PSI\_CTRL\_r | | | | 0.16 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Aggregatibacter | | | PSI\_CTRL\_r | | | | -0.11 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Olsenella | | | PSI\_CTRL\_r | | | | 0.09 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Selenomonas | | | PSI\_CTRL\_r | | | | 0.09 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Lachnoanaerobaculum | | | PSI\_CTRL\_r | | | | -0.13 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Peptococcus | | | PSI\_CTRL\_r | | | | 0.04 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Peptostreptococcus | | | PSI\_CTRL\_r | | | | 0.08 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Leptotrichia | | | PSI\_CTRL\_r | | | | 0.14 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Tannerella | | | PSI\_PKU\_r | | | | 0.39 | | 0.00 | | | | | Significant | | | | | 24 | | | | |
| Olsenella | | | PSI\_PKU\_r | | | | 0.36 | | 0.00 | | | | | Significant | | | | | 24 | | | | |
| Haemophilus | | | PSI\_PKU\_r | | | | -0.24 | | 0.29 | | | | | Non-significant | | | | | 25 | | | | |
| Selenomonas | | | PSI\_PKU\_r | | | | 0.20 | | 0.99 | | | | | Non-significant | | | | | 24 | | | | |
| Fusobacterium | | | PSI\_PKU\_r | | | | -0.12 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Actinomyces | | | PSI\_PKU\_r | | | | 0.08 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Prevotella | | | PSI\_PKU\_r | | | | -0.05 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Neisseria | | | PSI\_PKU\_r | | | | -0.16 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Rothia | | | PSI\_PKU\_r | | | | 0.03 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Alloprevotella | | | PSI\_PKU\_r | | | | 0.15 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Campylobacter | | | PSI\_PKU\_r | | | | -0.01 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Cardiobacterium | | | PSI\_PKU\_r | | | | 0.12 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Veillonella | | | PSI\_PKU\_r | | | | -0.16 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Porphyromonas | | | PSI\_PKU\_r | | | | 0.07 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Streptococcus | | | PSI\_PKU\_r | | | | 0.16 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Lautropia | | | PSI\_PKU\_r | | | | -0.10 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Gemella | | | PSI\_PKU\_r | | | | -0.16 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Atopobium | | | PSI\_PKU\_r | | | | 0.05 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Aggregatibacter | | | PSI\_PKU\_r | | | | 0.10 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Lachnoanaerobaculum | | | PSI\_PKU\_r | | | | -0.18 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Peptococcus | | | PSI\_PKU\_r | | | | 0.03 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Peptostreptococcus | | | PSI\_PKU\_r | | | | 0.16 | | 1.00 | | | | | Non-significant | | | | | 24 | | | | |
| Leptotrichia | | | PSI\_PKU\_r | | | | -0.11 | | 1.00 | | | | | Non-significant | | | | | 25 | | | | |
| Appendix Table 15. Correlation of alpha diversity and categorical clinical variables in SP | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **taxa** | | | | **comp** | | | | | | | | | **Log2mean ratio** | | | | | **qval** | | | | **Alpha** | | | | **Shape** | |
| **Observed\_ASV** | | | | VitD\_def\_vs\_No\_def\_CTRL | | | | | | | | | -0.16 | | | | | 1.00 | | | | Non-significant | | | | 25 | |
| **Faith's Phylogenetic Diversity** | | | | VitD\_def\_vs\_No\_def\_CTRL | | | | | | | | | 0.05 | | | | | 1.00 | | | | Non-significant | | | | 24 | |
| **Shannon** | | | | VitD\_def\_vs\_No\_def\_CTRL | | | | | | | | | -0.08 | | | | | 0.72 | | | | Non-significant | | | | 25 | |
| **Pielou's evenness** | | | | VitD\_def\_vs\_No\_def\_CTRL | | | | | | | | | -0.05 | | | | | 0.35 | | | | Non-significant | | | | 25 | |
| **Observed\_ASV** | | | | VitD\_def\_vs\_No\_def\_PKU | | | | | | | | | 0.04 | | | | | 1.00 | | | | Non-significant | | | | 24 | |
| **Faith's Phylogenetic Diversity** | | | | VitD\_def\_vs\_No\_def\_PKU | | | | | | | | | 0.00 | | | | | 1.00 | | | | Non-significant | | | | 24 | |
| **Shannon** | | | | VitD\_def\_vs\_No\_def\_PKU | | | | | | | | | 0.02 | | | | | 1.00 | | | | Non-significant | | | | 24 | |
| **Pielou's evenness** | | | | VitD\_def\_vs\_No\_def\_PKU | | | | | | | | | 0.01 | | | | | 1.00 | | | | Non-significant | | | | 24 | |
| **Observed\_ASV** | | | | Sw≥2\_vs\_Sw<2\_CTRL | | | | | | | | | -0.08 | | | | | 1.00 | | | | Non-significant | | | | 25 | |
| **Faith's Phylogenetic Diversity** | | | | Sw≥2\_vs\_Sw<2\_CTRL | | | | | | | | | 0.01 | | | | | 1.00 | | | | Non-significant | | | | 24 | |
| **Shannon** | | | | Sw≥2\_vs\_Sw<2\_CTRL | | | | | | | | | -0.02 | | | | | 1.00 | | | | Non-significant | | | | 25 | |
| **Pielou's evenness** | | | | Sw≥2\_vs\_Sw<2\_CTRL | | | | | | | | | 0.00 | | | | | 1.00 | | | | Non-significant | | | | 24 | |
| **Observed\_ASV** | | | | Sw≥2\_vs\_Sw<2\_PKU | | | | | | | | | 0.02 | | | | | 1.00 | | | | Non-significant | | | | 24 | |
| **Faith's Phylogenetic Diversity** | | | | Sw≥2\_vs\_Sw<2\_PKU | | | | | | | | | 0.06 | | | | | 1.00 | | | | Non-significant | | | | 24 | |
| **Shannon** | | | | Sw≥2\_vs\_Sw<2\_PKU | | | | | | | | | 0.01 | | | | | 1.00 | | | | Non-significant | | | | 24 | |
| **Pielou's evenness** | | | | Sw≥2\_vs\_Sw<2\_PKU | | | | | | | | | 0.01 | | | | | 1.00 | | | | Non-significant | | | | 24 | |
| **Observed\_ASV** | | | | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | | | | | | 0.04 | | | | | 1.00 | | | | Non-significant | | | | 24 | |
| **Faith's Phylogenetic Diversity** | | | | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | | | | | | 0.20 | | | | | 1.00 | | | | Non-significant | | | | 24 | |
| **Shannon** | | | | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | | | | | | 0.00 | | | | | 1.00 | | | | Non-significant | | | | 25 | |
| **Pielou's evenness** | | | | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | | | | | | 0.00 | | | | | 1.00 | | | | Non-significant | | | | 25 | |
| **Observed\_ASV** | | | | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | | | | | | -0.01 | | | | | 1.00 | | | | Non-significant | | | | 25 | |
| **Faith's Phylogenetic Diversity** | | | | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | | | | | | 0.04 | | | | | 1.00 | | | | Non-significant | | | | 24 | |
| **Shannon** | | | | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | | | | | | 0.01 | | | | | 1.00 | | | | Non-significant | | | | 24 | |
| **Pielou's evenness** | | | | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | | | | | | 0.01 | | | | | 1.00 | | | | Non-significant | | | | 24 | |
| **Observed\_ASV** | | | | DDE\_vs\_no\_DDE\_CTRL | | | | | | | | | 0.05 | | | | | 1.00 | | | | Non-significant | | | | 24 | |
| **Faith's Phylogenetic Diversity** | | | | DDE\_vs\_no\_DDE\_CTRL | | | | | | | | | 0.05 | | | | | 1.00 | | | | Non-significant | | | | 24 | |
| **Shannon** | | | | DDE\_vs\_no\_DDE\_CTRL | | | | | | | | | 0.04 | | | | | 0.88 | | | | Non-significant | | | | 24 | |
| **Pielou's evenness** | | | | DDE\_vs\_no\_DDE\_CTRL | | | | | | | | | 0.03 | | | | | 0.47 | | | | Non-significant | | | | 24 | |
| **Observed\_ASV** | | | | DDE\_vs\_no\_DDE\_PKU | | | | | | | | | -0.04 | | | | | 1.00 | | | | Non-significant | | | | 25 | |
| **Faith's Phylogenetic Diversity** | | | | DDE\_vs\_no\_DDE\_PKU | | | | | | | | | 0.00 | | | | | 1.00 | | | | Non-significant | | | | 25 | |
| **Shannon** | | | | DDE\_vs\_no\_DDE\_PKU | | | | | | | | | -0.04 | | | | | 0.64 | | | | Non-significant | | | | 25 | |
| **Pielou's evenness** | | | | DDE\_vs\_no\_DDE\_PKU | | | | | | | | | -0.03 | | | | | 0.20 | | | | Non-significant | | | | 25 | |
| **Observed\_ASV** | | | | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | | | | | | 0.08 | | | | | 1.00 | | | | Non-significant | | | | 24 | |
| **Faith's Phylogenetic Diversity** | | | | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | | | | | | 0.06 | | | | | 1.00 | | | | Non-significant | | | | 24 | |
| **Shannon** | | | | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | | | | | | 0.01 | | | | | 1.00 | | | | Non-significant | | | | 24 | |
| **Pielou's evenness** | | | | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | | | | | | -0.01 | | | | | 1.00 | | | | Non-significant | | | | 25 | |
| **Observed\_ASV** | | | | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | | | | | | 0.08 | | | | | 1.00 | | | | Non-significant | | | | 24 | |
| **Faith's Phylogenetic Diversity** | | | | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | | | | | | 0.13 | | | | | 0.14 | | | | Non-significant | | | | 24 | |
| **Shannon** | | | | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | | | | | | 0.02 | | | | | 1.00 | | | | Non-significant | | | | 24 | |
| **Pielou's evenness** | | | | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | | | | | | 0.00 | | | | | 1.00 | | | | Non-significant | | | | 25 | |
| **Observed\_ASV** | | | | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | | | | | | 0.20 | | | | | 1.00 | | | | Non-significant | | | | 24 | |
| **Faith's Phylogenetic Diversity** | | | | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | | | | | | 0.20 | | | | | 0.81 | | | | Non-significant | | | | 24 | |
| **Shannon** | | | | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | | | | | | 0.04 | | | | | 1.00 | | | | Non-significant | | | | 24 | |
| **Pielou's evenness** | | | | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | | | | | | 0.00 | | | | | 1.00 | | | | Non-significant | | | | 25 | |
| **Observed\_ASV** | | | | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | | | | | | 0.03 | | | | | 1.00 | | | | Non-significant | | | | 24 | |
| **Faith's Phylogenetic Diversity** | | | | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | | | | | | 0.00 | | | | | 1.00 | | | | Non-significant | | | | 24 | |
| **Shannon** | | | | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | | | | | | 0.04 | | | | | 0.96 | | | | Non-significant | | | | 24 | |
| **Pielou's evenness** | | | | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | | | | | | 0.04 | | | | | 0.23 | | | | Non-significant | | | | 24 | |
| Appendix Table 16. Correlation of alpha diversity and ordinal clinical variables in SP | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **taxa** | | | | **comp** | | | | | | | | **Log2mean ratio** | | | | | **qval** | | | **Alpha** | | | | | **Shape** | |
| **Observed\_ASV** | | | | VitD\_def\_vs\_No\_def\_CTRL | | | | | | | | -0.16 | | | | | 1.00 | | | Non-significant | | | | | 25 | |
| **Faith's Phylogenetic Diversity** | | | | VitD\_def\_vs\_No\_def\_CTRL | | | | | | | | 0.05 | | | | | 1.00 | | | Non-significant | | | | | 24 | |
| **Shannon** | | | | VitD\_def\_vs\_No\_def\_CTRL | | | | | | | | -0.08 | | | | | 0.72 | | | Non-significant | | | | | 25 | |
| **Pielou's evenness** | | | | VitD\_def\_vs\_No\_def\_CTRL | | | | | | | | -0.05 | | | | | 0.35 | | | Non-significant | | | | | 25 | |
| **Observed\_ASV** | | | | VitD\_def\_vs\_No\_def\_PKU | | | | | | | | 0.04 | | | | | 1.00 | | | Non-significant | | | | | 24 | |
| **Faith's Phylogenetic Diversity** | | | | VitD\_def\_vs\_No\_def\_PKU | | | | | | | | 0.00 | | | | | 1.00 | | | Non-significant | | | | | 24 | |
| **Shannon** | | | | VitD\_def\_vs\_No\_def\_PKU | | | | | | | | 0.02 | | | | | 1.00 | | | Non-significant | | | | | 24 | |
| **Pielou's evenness** | | | | VitD\_def\_vs\_No\_def\_PKU | | | | | | | | 0.01 | | | | | 1.00 | | | Non-significant | | | | | 24 | |
| **Observed\_ASV** | | | | Sw≥2\_vs\_Sw<2\_CTRL | | | | | | | | -0.08 | | | | | 1.00 | | | Non-significant | | | | | 25 | |
| **Faith's Phylogenetic Diversity** | | | | Sw≥2\_vs\_Sw<2\_CTRL | | | | | | | | 0.01 | | | | | 1.00 | | | Non-significant | | | | | 24 | |
| **Shannon** | | | | Sw≥2\_vs\_Sw<2\_CTRL | | | | | | | | -0.02 | | | | | 1.00 | | | Non-significant | | | | | 25 | |
| **Pielou's evenness** | | | | Sw≥2\_vs\_Sw<2\_CTRL | | | | | | | | 0.00 | | | | | 1.00 | | | Non-significant | | | | | 24 | |
| **Observed\_ASV** | | | | Sw≥2\_vs\_Sw<2\_PKU | | | | | | | | 0.02 | | | | | 1.00 | | | Non-significant | | | | | 24 | |
| **Faith's Phylogenetic Diversity** | | | | Sw≥2\_vs\_Sw<2\_PKU | | | | | | | | 0.06 | | | | | 1.00 | | | Non-significant | | | | | 24 | |
| **Shannon** | | | | Sw≥2\_vs\_Sw<2\_PKU | | | | | | | | 0.01 | | | | | 1.00 | | | Non-significant | | | | | 24 | |
| **Pielou's evenness** | | | | Sw≥2\_vs\_Sw<2\_PKU | | | | | | | | 0.01 | | | | | 1.00 | | | Non-significant | | | | | 24 | |
| **Observed\_ASV** | | | | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | | | | | 0.04 | | | | | 1.00 | | | Non-significant | | | | | 24 | |
| **Faith's Phylogenetic Diversity** | | | | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | | | | | 0.20 | | | | | 1.00 | | | Non-significant | | | | | 24 | |
| **Shannon** | | | | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | | | | | 0.00 | | | | | 1.00 | | | Non-significant | | | | | 25 | |
| **Pielou's evenness** | | | | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | | | | | 0.00 | | | | | 1.00 | | | Non-significant | | | | | 25 | |
| **Observed\_ASV** | | | | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | | | | | -0.01 | | | | | 1.00 | | | Non-significant | | | | | 25 | |
| **Faith's Phylogenetic Diversity** | | | | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | | | | | 0.04 | | | | | 1.00 | | | Non-significant | | | | | 24 | |
| **Shannon** | | | | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | | | | | 0.01 | | | | | 1.00 | | | Non-significant | | | | | 24 | |
| **Pielou's evenness** | | | | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | | | | | 0.01 | | | | | 1.00 | | | Non-significant | | | | | 24 | |
| **Observed\_ASV** | | | | DDE\_vs\_no\_DDE\_CTRL | | | | | | | | 0.05 | | | | | 1.00 | | | Non-significant | | | | | 24 | |
| **Faith's Phylogenetic Diversity** | | | | DDE\_vs\_no\_DDE\_CTRL | | | | | | | | 0.05 | | | | | 1.00 | | | Non-significant | | | | | 24 | |
| **Shannon** | | | | DDE\_vs\_no\_DDE\_CTRL | | | | | | | | 0.04 | | | | | 0.88 | | | Non-significant | | | | | 24 | |
| **Pielou's evenness** | | | | DDE\_vs\_no\_DDE\_CTRL | | | | | | | | 0.03 | | | | | 0.47 | | | Non-significant | | | | | 24 | |
| **Observed\_ASV** | | | | DDE\_vs\_no\_DDE\_PKU | | | | | | | | -0.04 | | | | | 1.00 | | | Non-significant | | | | | 25 | |
| **Faith's Phylogenetic Diversity** | | | | DDE\_vs\_no\_DDE\_PKU | | | | | | | | 0.00 | | | | | 1.00 | | | Non-significant | | | | | 25 | |
| **Shannon** | | | | DDE\_vs\_no\_DDE\_PKU | | | | | | | | -0.04 | | | | | 0.64 | | | Non-significant | | | | | 25 | |
| **Pielou's evenness** | | | | DDE\_vs\_no\_DDE\_PKU | | | | | | | | -0.03 | | | | | 0.20 | | | Non-significant | | | | | 25 | |
| **Observed\_ASV** | | | | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | | | | | 0.08 | | | | | 1.00 | | | Non-significant | | | | | 24 | |
| **Faith's Phylogenetic Diversity** | | | | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | | | | | 0.06 | | | | | 1.00 | | | Non-significant | | | | | 24 | |
| **Shannon** | | | | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | | | | | 0.01 | | | | | 1.00 | | | Non-significant | | | | | 24 | |
| **Pielou's evenness** | | | | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | | | | | -0.01 | | | | | 1.00 | | | Non-significant | | | | | 25 | |
| **Observed\_ASV** | | | | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | | | | | 0.08 | | | | | 1.00 | | | Non-significant | | | | | 24 | |
| **Faith's Phylogenetic Diversity** | | | | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | | | | | 0.13 | | | | | 0.14 | | | Non-significant | | | | | 24 | |
| **Shannon** | | | | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | | | | | 0.02 | | | | | 1.00 | | | Non-significant | | | | | 24 | |
| **Pielou's evenness** | | | | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | | | | | 0.00 | | | | | 1.00 | | | Non-significant | | | | | 25 | |
| **Observed\_ASV** | | | | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | | | | | 0.20 | | | | | 1.00 | | | Non-significant | | | | | 24 | |
| **Faith's Phylogenetic Diversity** | | | | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | | | | | 0.20 | | | | | 0.81 | | | Non-significant | | | | | 24 | |
| **Shannon** | | | | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | | | | | 0.04 | | | | | 1.00 | | | Non-significant | | | | | 24 | |
| **Pielou's evenness** | | | | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | | | | | 0.00 | | | | | 1.00 | | | Non-significant | | | | | 25 | |
| **Observed\_ASV** | | | | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | | | | | 0.03 | | | | | 1.00 | | | Non-significant | | | | | 24 | |
| **Faith's Phylogenetic Diversity** | | | | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | | | | | 0.00 | | | | | 1.00 | | | Non-significant | | | | | 24 | |
| **Shannon** | | | | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | | | | | 0.04 | | | | | 0.96 | | | Non-significant | | | | | 24 | |
| **Pielou's evenness** | | | | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | | | | | 0.04 | | | | | 0.23 | | | Non-significant | | | | | 24 | |
| Appendix Table 17. Correlation of taxon abundances and categorical clinical variables in SP | | | | | | | | | | | | | | | | | | | | | | |
| **taxa** | | **comp** | | | | | | | | **Log2mean ratio** | | | | | **qval** | **Alpha** | | | | | **Shape** | |
| **Fusobacterium** | | VitD\_def\_vs\_No\_def\_CTRL | | | | | | | | -0.25 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Actinomyces** | | VitD\_def\_vs\_No\_def\_CTRL | | | | | | | | -0.01 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Prevotella** | | VitD\_def\_vs\_No\_def\_CTRL | | | | | | | | -0.22 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Neisseria** | | VitD\_def\_vs\_No\_def\_CTRL | | | | | | | | -0.74 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Haemophilus** | | VitD\_def\_vs\_No\_def\_CTRL | | | | | | | | -2.00 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Rothia** | | VitD\_def\_vs\_No\_def\_CTRL | | | | | | | | 0.68 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Alloprevotella** | | VitD\_def\_vs\_No\_def\_CTRL | | | | | | | | -2.00 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Campylobacter** | | VitD\_def\_vs\_No\_def\_CTRL | | | | | | | | 0.19 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Cardiobacterium** | | VitD\_def\_vs\_No\_def\_CTRL | | | | | | | | 0.93 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Tannerella** | | VitD\_def\_vs\_No\_def\_CTRL | | | | | | | | -1.57 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Veillonella** | | VitD\_def\_vs\_No\_def\_CTRL | | | | | | | | 0.82 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Porphyromonas** | | VitD\_def\_vs\_No\_def\_CTRL | | | | | | | | 0.35 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Streptococcus** | | VitD\_def\_vs\_No\_def\_CTRL | | | | | | | | -0.03 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Lautropia** | | VitD\_def\_vs\_No\_def\_CTRL | | | | | | | | -2.00 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Gemella** | | VitD\_def\_vs\_No\_def\_CTRL | | | | | | | | -2.00 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Atopobium** | | VitD\_def\_vs\_No\_def\_CTRL | | | | | | | | 1.11 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Aggregatibacter** | | VitD\_def\_vs\_No\_def\_CTRL | | | | | | | | 0.79 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Olsenella** | | VitD\_def\_vs\_No\_def\_CTRL | | | | | | | | -0.18 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Selenomonas** | | VitD\_def\_vs\_No\_def\_CTRL | | | | | | | | -0.32 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Lachnoanaerobaculum** | | VitD\_def\_vs\_No\_def\_CTRL | | | | | | | | 0.35 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Peptococcus** | | VitD\_def\_vs\_No\_def\_CTRL | | | | | | | | -2.00 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Peptostreptococcus** | | VitD\_def\_vs\_No\_def\_CTRL | | | | | | | | -0.91 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Leptotrichia** | | VitD\_def\_vs\_No\_def\_CTRL | | | | | | | | -0.25 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Fusobacterium** | | VitD\_def\_vs\_No\_def\_PKU | | | | | | | | -0.08 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Actinomyces** | | VitD\_def\_vs\_No\_def\_PKU | | | | | | | | 0.37 | | | | | 0.77 | Non-significant | | | | | 24 | |
| **Prevotella** | | VitD\_def\_vs\_No\_def\_PKU | | | | | | | | 0.11 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Neisseria** | | VitD\_def\_vs\_No\_def\_PKU | | | | | | | | -0.18 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Haemophilus** | | VitD\_def\_vs\_No\_def\_PKU | | | | | | | | 0.80 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Rothia** | | VitD\_def\_vs\_No\_def\_PKU | | | | | | | | 0.32 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Alloprevotella** | | VitD\_def\_vs\_No\_def\_PKU | | | | | | | | 0.16 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Campylobacter** | | VitD\_def\_vs\_No\_def\_PKU | | | | | | | | 0.16 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Cardiobacterium** | | VitD\_def\_vs\_No\_def\_PKU | | | | | | | | -0.44 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Tannerella** | | VitD\_def\_vs\_No\_def\_PKU | | | | | | | | -0.64 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Veillonella** | | VitD\_def\_vs\_No\_def\_PKU | | | | | | | | 0.53 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Porphyromonas** | | VitD\_def\_vs\_No\_def\_PKU | | | | | | | | -0.62 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Streptococcus** | | VitD\_def\_vs\_No\_def\_PKU | | | | | | | | -0.37 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Lautropia** | | VitD\_def\_vs\_No\_def\_PKU | | | | | | | | 0.00 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Gemella** | | VitD\_def\_vs\_No\_def\_PKU | | | | | | | | -0.59 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Atopobium** | | VitD\_def\_vs\_No\_def\_PKU | | | | | | | | 0.06 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Aggregatibacter** | | VitD\_def\_vs\_No\_def\_PKU | | | | | | | | -0.27 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Olsenella** | | VitD\_def\_vs\_No\_def\_PKU | | | | | | | | -0.42 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Selenomonas** | | VitD\_def\_vs\_No\_def\_PKU | | | | | | | | 0.09 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Lachnoanaerobaculum** | | VitD\_def\_vs\_No\_def\_PKU | | | | | | | | -0.33 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Peptococcus** | | VitD\_def\_vs\_No\_def\_PKU | | | | | | | | -0.35 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Peptostreptococcus** | | VitD\_def\_vs\_No\_def\_PKU | | | | | | | | -0.54 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Leptotrichia** | | VitD\_def\_vs\_No\_def\_PKU | | | | | | | | -0.10 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Fusobacterium** | | Sw≥2\_vs\_Sw<2\_CTRL | | | | | | | | 0.23 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Actinomyces** | | Sw≥2\_vs\_Sw<2\_CTRL | | | | | | | | -0.04 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Prevotella** | | Sw≥2\_vs\_Sw<2\_CTRL | | | | | | | | 0.21 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Neisseria** | | Sw≥2\_vs\_Sw<2\_CTRL | | | | | | | | -0.34 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Haemophilus** | | Sw≥2\_vs\_Sw<2\_CTRL | | | | | | | | -0.12 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Rothia** | | Sw≥2\_vs\_Sw<2\_CTRL | | | | | | | | -0.92 | | | | | 0.99 | Non-significant | | | | | 25 | |
| **Alloprevotella** | | Sw≥2\_vs\_Sw<2\_CTRL | | | | | | | | 0.79 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Campylobacter** | | Sw≥2\_vs\_Sw<2\_CTRL | | | | | | | | 0.29 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Cardiobacterium** | | Sw≥2\_vs\_Sw<2\_CTRL | | | | | | | | -0.15 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Tannerella** | | Sw≥2\_vs\_Sw<2\_CTRL | | | | | | | | -0.03 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Veillonella** | | Sw≥2\_vs\_Sw<2\_CTRL | | | | | | | | -0.35 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Porphyromonas** | | Sw≥2\_vs\_Sw<2\_CTRL | | | | | | | | -0.23 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Streptococcus** | | Sw≥2\_vs\_Sw<2\_CTRL | | | | | | | | -0.29 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Lautropia** | | Sw≥2\_vs\_Sw<2\_CTRL | | | | | | | | -0.61 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Gemella** | | Sw≥2\_vs\_Sw<2\_CTRL | | | | | | | | -0.22 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Atopobium** | | Sw≥2\_vs\_Sw<2\_CTRL | | | | | | | | -0.24 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Aggregatibacter** | | Sw≥2\_vs\_Sw<2\_CTRL | | | | | | | | 0.04 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Olsenella** | | Sw≥2\_vs\_Sw<2\_CTRL | | | | | | | | 0.63 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Selenomonas** | | Sw≥2\_vs\_Sw<2\_CTRL | | | | | | | | 0.40 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Lachnoanaerobaculum** | | Sw≥2\_vs\_Sw<2\_CTRL | | | | | | | | 0.10 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Peptococcus** | | Sw≥2\_vs\_Sw<2\_CTRL | | | | | | | | 0.12 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Peptostreptococcus** | | Sw≥2\_vs\_Sw<2\_CTRL | | | | | | | | -0.39 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Leptotrichia** | | Sw≥2\_vs\_Sw<2\_CTRL | | | | | | | | -0.14 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Fusobacterium** | | Sw≥2\_vs\_Sw<2\_PKU | | | | | | | | 0.43 | | | | | 0.51 | Non-significant | | | | | 24 | |
| **Actinomyces** | | Sw≥2\_vs\_Sw<2\_PKU | | | | | | | | -0.05 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Prevotella** | | Sw≥2\_vs\_Sw<2\_PKU | | | | | | | | 0.08 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Neisseria** | | Sw≥2\_vs\_Sw<2\_PKU | | | | | | | | -0.68 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Haemophilus** | | Sw≥2\_vs\_Sw<2\_PKU | | | | | | | | -0.38 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Rothia** | | Sw≥2\_vs\_Sw<2\_PKU | | | | | | | | 0.44 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Alloprevotella** | | Sw≥2\_vs\_Sw<2\_PKU | | | | | | | | -0.35 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Campylobacter** | | Sw≥2\_vs\_Sw<2\_PKU | | | | | | | | 0.30 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Cardiobacterium** | | Sw≥2\_vs\_Sw<2\_PKU | | | | | | | | -0.21 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Tannerella** | | Sw≥2\_vs\_Sw<2\_PKU | | | | | | | | 0.69 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Veillonella** | | Sw≥2\_vs\_Sw<2\_PKU | | | | | | | | -0.68 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Porphyromonas** | | Sw≥2\_vs\_Sw<2\_PKU | | | | | | | | -0.37 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Streptococcus** | | Sw≥2\_vs\_Sw<2\_PKU | | | | | | | | -0.26 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Lautropia** | | Sw≥2\_vs\_Sw<2\_PKU | | | | | | | | -0.10 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Gemella** | | Sw≥2\_vs\_Sw<2\_PKU | | | | | | | | 0.10 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Atopobium** | | Sw≥2\_vs\_Sw<2\_PKU | | | | | | | | -0.46 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Aggregatibacter** | | Sw≥2\_vs\_Sw<2\_PKU | | | | | | | | 0.47 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Olsenella** | | Sw≥2\_vs\_Sw<2\_PKU | | | | | | | | 0.79 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Selenomonas** | | Sw≥2\_vs\_Sw<2\_PKU | | | | | | | | 0.18 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Lachnoanaerobaculum** | | Sw≥2\_vs\_Sw<2\_PKU | | | | | | | | -0.04 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Peptococcus** | | Sw≥2\_vs\_Sw<2\_PKU | | | | | | | | -1.73 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Peptostreptococcus** | | Sw≥2\_vs\_Sw<2\_PKU | | | | | | | | -1.56 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Leptotrichia** | | Sw≥2\_vs\_Sw<2\_PKU | | | | | | | | 0.29 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Fusobacterium** | | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | | | | | 0.22 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Actinomyces** | | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | | | | | 0.05 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Prevotella** | | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | | | | | 0.81 | | | | | 0.70 | Non-significant | | | | | 24 | |
| **Neisseria** | | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | | | | | -1.57 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Haemophilus** | | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | | | | | -0.13 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Rothia** | | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | | | | | -0.56 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Alloprevotella** | | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | | | | | -0.12 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Campylobacter** | | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | | | | | -0.04 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Cardiobacterium** | | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | | | | | -1.82 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Tannerella** | | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | | | | | -0.04 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Veillonella** | | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | | | | | -0.02 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Porphyromonas** | | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | | | | | 0.58 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Streptococcus** | | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | | | | | -0.09 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Lautropia** | | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | | | | | -1.30 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Gemella** | | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | | | | | -0.43 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Atopobium** | | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | | | | | 0.98 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Aggregatibacter** | | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | | | | | -1.29 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Olsenella** | | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | | | | | -1.25 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Selenomonas** | | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | | | | | -0.01 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Lachnoanaerobaculum** | | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | | | | | -2.00 | | | | | 0.58 | Non-significant | | | | | 25 | |
| **Peptococcus** | | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | | | | | -0.10 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Peptostreptococcus** | | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | | | | | -0.48 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Leptotrichia** | | Periodontitis\_vs\_no\_Periodontitis\_CTRL | | | | | | | | -2.00 | | | | | 0.76 | Non-significant | | | | | 25 | |
| **Fusobacterium** | | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | | | | | 0.07 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Actinomyces** | | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | | | | | -0.15 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Prevotella** | | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | | | | | 0.14 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Neisseria** | | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | | | | | -0.49 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Haemophilus** | | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | | | | | 0.30 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Rothia** | | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | | | | | 0.29 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Alloprevotella** | | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | | | | | -0.49 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Campylobacter** | | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | | | | | 0.05 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Cardiobacterium** | | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | | | | | -0.48 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Tannerella** | | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | | | | | 0.52 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Veillonella** | | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | | | | | 0.74 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Porphyromonas** | | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | | | | | 0.00 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Streptococcus** | | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | | | | | 0.30 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Lautropia** | | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | | | | | -0.59 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Gemella** | | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | | | | | 0.22 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Atopobium** | | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | | | | | 0.26 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Aggregatibacter** | | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | | | | | 0.55 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Olsenella** | | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | | | | | -1.23 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Selenomonas** | | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | | | | | -0.09 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Lachnoanaerobaculum** | | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | | | | | -0.15 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Peptococcus** | | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | | | | | 1.15 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Peptostreptococcus** | | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | | | | | 1.36 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Leptotrichia** | | Periodontitis\_vs\_no\_Periodontitis\_PKU | | | | | | | | -0.11 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Fusobacterium** | | DDE\_vs\_no\_DDE\_CTRL | | | | | | | | 0.06 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Actinomyces** | | DDE\_vs\_no\_DDE\_CTRL | | | | | | | | 0.20 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Prevotella** | | DDE\_vs\_no\_DDE\_CTRL | | | | | | | | -0.26 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Neisseria** | | DDE\_vs\_no\_DDE\_CTRL | | | | | | | | -0.06 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Haemophilus** | | DDE\_vs\_no\_DDE\_CTRL | | | | | | | | -0.24 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Rothia** | | DDE\_vs\_no\_DDE\_CTRL | | | | | | | | -0.35 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Alloprevotella** | | DDE\_vs\_no\_DDE\_CTRL | | | | | | | | 0.42 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Campylobacter** | | DDE\_vs\_no\_DDE\_CTRL | | | | | | | | 0.09 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Cardiobacterium** | | DDE\_vs\_no\_DDE\_CTRL | | | | | | | | 0.13 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Tannerella** | | DDE\_vs\_no\_DDE\_CTRL | | | | | | | | -0.20 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Veillonella** | | DDE\_vs\_no\_DDE\_CTRL | | | | | | | | -0.11 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Porphyromonas** | | DDE\_vs\_no\_DDE\_CTRL | | | | | | | | -0.28 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Streptococcus** | | DDE\_vs\_no\_DDE\_CTRL | | | | | | | | 0.07 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Lautropia** | | DDE\_vs\_no\_DDE\_CTRL | | | | | | | | -0.54 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Gemella** | | DDE\_vs\_no\_DDE\_CTRL | | | | | | | | 0.46 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Atopobium** | | DDE\_vs\_no\_DDE\_CTRL | | | | | | | | -0.80 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Aggregatibacter** | | DDE\_vs\_no\_DDE\_CTRL | | | | | | | | -0.11 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Olsenella** | | DDE\_vs\_no\_DDE\_CTRL | | | | | | | | 0.08 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Selenomonas** | | DDE\_vs\_no\_DDE\_CTRL | | | | | | | | 0.02 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Lachnoanaerobaculum** | | DDE\_vs\_no\_DDE\_CTRL | | | | | | | | -0.86 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Peptococcus** | | DDE\_vs\_no\_DDE\_CTRL | | | | | | | | -1.01 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Peptostreptococcus** | | DDE\_vs\_no\_DDE\_CTRL | | | | | | | | -2.00 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Leptotrichia** | | DDE\_vs\_no\_DDE\_CTRL | | | | | | | | 0.19 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Fusobacterium** | | DDE\_vs\_no\_DDE\_PKU | | | | | | | | -0.13 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Actinomyces** | | DDE\_vs\_no\_DDE\_PKU | | | | | | | | 0.13 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Prevotella** | | DDE\_vs\_no\_DDE\_PKU | | | | | | | | -0.32 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Neisseria** | | DDE\_vs\_no\_DDE\_PKU | | | | | | | | 0.66 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Haemophilus** | | DDE\_vs\_no\_DDE\_PKU | | | | | | | | -0.40 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Rothia** | | DDE\_vs\_no\_DDE\_PKU | | | | | | | | 0.80 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Alloprevotella** | | DDE\_vs\_no\_DDE\_PKU | | | | | | | | 0.26 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Campylobacter** | | DDE\_vs\_no\_DDE\_PKU | | | | | | | | -0.07 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Cardiobacterium** | | DDE\_vs\_no\_DDE\_PKU | | | | | | | | 0.58 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Tannerella** | | DDE\_vs\_no\_DDE\_PKU | | | | | | | | -0.08 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Veillonella** | | DDE\_vs\_no\_DDE\_PKU | | | | | | | | -0.31 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Porphyromonas** | | DDE\_vs\_no\_DDE\_PKU | | | | | | | | 0.04 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Streptococcus** | | DDE\_vs\_no\_DDE\_PKU | | | | | | | | 0.28 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Lautropia** | | DDE\_vs\_no\_DDE\_PKU | | | | | | | | 0.24 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Gemella** | | DDE\_vs\_no\_DDE\_PKU | | | | | | | | 0.31 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Atopobium** | | DDE\_vs\_no\_DDE\_PKU | | | | | | | | -0.47 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Aggregatibacter** | | DDE\_vs\_no\_DDE\_PKU | | | | | | | | 0.09 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Olsenella** | | DDE\_vs\_no\_DDE\_PKU | | | | | | | | -0.64 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Selenomonas** | | DDE\_vs\_no\_DDE\_PKU | | | | | | | | -0.33 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Lachnoanaerobaculum** | | DDE\_vs\_no\_DDE\_PKU | | | | | | | | -0.20 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Peptococcus** | | DDE\_vs\_no\_DDE\_PKU | | | | | | | | 2.00 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Peptostreptococcus** | | DDE\_vs\_no\_DDE\_PKU | | | | | | | | 0.91 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Leptotrichia** | | DDE\_vs\_no\_DDE\_PKU | | | | | | | | -0.01 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Fusobacterium** | | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | | | | | -0.01 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Actinomyces** | | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | | | | | 0.04 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Prevotella** | | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | | | | | 0.03 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Neisseria** | | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | | | | | -0.26 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Haemophilus** | | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | | | | | -0.03 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Rothia** | | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | | | | | -0.40 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Alloprevotella** | | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | | | | | 0.64 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Campylobacter** | | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | | | | | -0.16 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Cardiobacterium** | | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | | | | | -0.34 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Tannerella** | | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | | | | | -0.08 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Veillonella** | | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | | | | | 0.05 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Porphyromonas** | | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | | | | | 0.24 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Streptococcus** | | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | | | | | 0.02 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Lautropia** | | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | | | | | 0.05 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Gemella** | | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | | | | | -0.82 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Atopobium** | | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | | | | | -0.27 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Aggregatibacter** | | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | | | | | -0.26 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Olsenella** | | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | | | | | -0.44 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Selenomonas** | | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | | | | | 0.26 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Lachnoanaerobaculum** | | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | | | | | 0.35 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Peptococcus** | | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | | | | | 1.43 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Peptostreptococcus** | | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | | | | | -0.23 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Leptotrichia** | | PCR>0.2\_vs\_PCR<0.2\_CTRL | | | | | | | | -0.29 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Fusobacterium** | | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | | | | | 0.00 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Actinomyces** | | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | | | | | -0.39 | | | | | 0.52 | Non-significant | | | | | 25 | |
| **Prevotella** | | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | | | | | 0.15 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Neisseria** | | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | | | | | 0.05 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Haemophilus** | | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | | | | | 0.28 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Rothia** | | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | | | | | 0.50 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Alloprevotella** | | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | | | | | 0.76 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Campylobacter** | | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | | | | | -0.07 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Cardiobacterium** | | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | | | | | -0.46 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Tannerella** | | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | | | | | 0.41 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Veillonella** | | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | | | | | 0.15 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Porphyromonas** | | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | | | | | 0.06 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Streptococcus** | | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | | | | | 0.01 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Lautropia** | | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | | | | | -0.37 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Gemella** | | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | | | | | 0.09 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Atopobium** | | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | | | | | 0.37 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Aggregatibacter** | | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | | | | | 0.44 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Olsenella** | | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | | | | | -0.30 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Selenomonas** | | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | | | | | -0.10 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Lachnoanaerobaculum** | | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | | | | | -0.17 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Peptococcus** | | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | | | | | 1.62 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Peptostreptococcus** | | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | | | | | 0.49 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Leptotrichia** | | PCR>0.2\_vs\_PCR<0.2\_PKU | | | | | | | | -0.30 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Fusobacterium** | | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | | | | | 0.36 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Actinomyces** | | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | | | | | -0.56 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Prevotella** | | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | | | | | 0.28 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Neisseria** | | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | | | | | -0.01 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Haemophilus** | | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | | | | | -1.37 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Rothia** | | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | | | | | -1.82 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Alloprevotella** | | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | | | | | -0.16 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Campylobacter** | | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | | | | | 0.36 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Cardiobacterium** | | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | | | | | -1.68 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Tannerella** | | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | | | | | 0.09 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Veillonella** | | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | | | | | -0.26 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Porphyromonas** | | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | | | | | 0.88 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Streptococcus** | | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | | | | | -0.23 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Lautropia** | | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | | | | | -0.70 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Gemella** | | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | | | | | -1.30 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Atopobium** | | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | | | | | -0.39 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Aggregatibacter** | | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | | | | | 0.03 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Olsenella** | | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | | | | | -0.58 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Selenomonas** | | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | | | | | -0.94 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Lachnoanaerobaculum** | | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | | | | | -2.00 | | | | | 0.96 | Non-significant | | | | | 25 | |
| **Peptococcus** | | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | | | | | 1.28 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Peptostreptococcus** | | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | | | | | -0.48 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Leptotrichia** | | Gingival\_bleed\_vs\_no\_bleed\_CTRL | | | | | | | | -1.20 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Fusobacterium** | | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | | | | | 0.23 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Actinomyces** | | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | | | | | -0.56 | | | | | 0.85 | Non-significant | | | | | 25 | |
| **Prevotella** | | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | | | | | 0.30 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Neisseria** | | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | | | | | -0.05 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Haemophilus** | | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | | | | | -0.30 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Rothia** | | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | | | | | -1.26 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Alloprevotella** | | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | | | | | -0.39 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Campylobacter** | | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | | | | | -0.03 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Cardiobacterium** | | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | | | | | -0.09 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Tannerella** | | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | | | | | 0.68 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Veillonella** | | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | | | | | -0.42 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Porphyromonas** | | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | | | | | 0.82 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Streptococcus** | | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | | | | | -0.37 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Lautropia** | | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | | | | | -0.86 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Gemella** | | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | | | | | -0.70 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Atopobium** | | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | | | | | -0.41 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Aggregatibacter** | | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | | | | | 0.83 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Olsenella** | | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | | | | | -0.66 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Selenomonas** | | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | | | | | 0.06 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Lachnoanaerobaculum** | | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | | | | | -0.16 | | | | | 1.00 | Non-significant | | | | | 25 | |
| **Peptococcus** | | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | | | | | 1.45 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Peptostreptococcus** | | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | | | | | 2.00 | | | | | 1.00 | Non-significant | | | | | 24 | |
| **Leptotrichia** | | Gingival\_bleed\_vs\_no\_bleed\_PKU | | | | | | | | 0.18 | | | | | 1.00 | Non-significant | | | | | 24 | |
| Appendix Table 18. Correlation of taxon abundances and ordinal clinical variables in SP | | | | | | | | | | |
| **taxa** | **var** | | | | **rho** | **Q** | | **Alpha** | | |
| **Fusobacterium** | BMI\_CTRL\_r | | | | -0.05 | 1.00 | | Non-significant | | |
| **Actinomyces** | BMI\_CTRL\_r | | | | -0.01 | 1.00 | | Non-significant | | |
| **Prevotella** | BMI\_CTRL\_r | | | | 0.13 | 1.00 | | Non-significant | | |
| **Neisseria** | BMI\_CTRL\_r | | | | -0.02 | 1.00 | | Non-significant | | |
| **Haemophilus** | BMI\_CTRL\_r | | | | -0.08 | 1.00 | | Non-significant | | |
| **Rothia** | BMI\_CTRL\_r | | | | -0.08 | 1.00 | | Non-significant | | |
| **Alloprevotella** | BMI\_CTRL\_r | | | | 0.07 | 1.00 | | Non-significant | | |
| **Campylobacter** | BMI\_CTRL\_r | | | | 0.09 | 1.00 | | Non-significant | | |
| **Cardiobacterium** | BMI\_CTRL\_r | | | | -0.18 | 1.00 | | Non-significant | | |
| **Tannerella** | BMI\_CTRL\_r | | | | -0.07 | 1.00 | | Non-significant | | |
| **Veillonella** | BMI\_CTRL\_r | | | | -0.01 | 1.00 | | Non-significant | | |
| **Porphyromonas** | BMI\_CTRL\_r | | | | -0.09 | 1.00 | | Non-significant | | |
| **Streptococcus** | BMI\_CTRL\_r | | | | -0.04 | 1.00 | | Non-significant | | |
| **Lautropia** | BMI\_CTRL\_r | | | | -0.01 | 1.00 | | Non-significant | | |
| **Gemella** | BMI\_CTRL\_r | | | | -0.06 | 1.00 | | Non-significant | | |
| **Atopobium** | BMI\_CTRL\_r | | | | 0.09 | 1.00 | | Non-significant | | |
| **Aggregatibacter** | BMI\_CTRL\_r | | | | -0.06 | 1.00 | | Non-significant | | |
| **Olsenella** | BMI\_CTRL\_r | | | | 0.08 | 1.00 | | Non-significant | | |
| **Selenomonas** | BMI\_CTRL\_r | | | | 0.12 | 1.00 | | Non-significant | | |
| **Lachnoanaerobaculum** | BMI\_CTRL\_r | | | | -0.24 | 0.31 | | Non-significant | | |
| **Peptococcus** | BMI\_CTRL\_r | | | | 0.02 | 1.00 | | Non-significant | | |
| **Peptostreptococcus** | BMI\_CTRL\_r | | | | 0.03 | 1.00 | | Non-significant | | |
| **Leptotrichia** | BMI\_CTRL\_r | | | | -0.07 | 1.00 | | Non-significant | | |
| **Fusobacterium** | BMI\_PKU\_r | | | | 0.01 | 1.00 | | Non-significant | | |
| **Actinomyces** | BMI\_PKU\_r | | | | 0.02 | 1.00 | | Non-significant | | |
| **Prevotella** | BMI\_PKU\_r | | | | 0.01 | 1.00 | | Non-significant | | |
| **Neisseria** | BMI\_PKU\_r | | | | -0.05 | 1.00 | | Non-significant | | |
| **Haemophilus** | BMI\_PKU\_r | | | | 0.07 | 1.00 | | Non-significant | | |
| **Rothia** | BMI\_PKU\_r | | | | -0.06 | 1.00 | | Non-significant | | |
| **Alloprevotella** | BMI\_PKU\_r | | | | -0.08 | 1.00 | | Non-significant | | |
| **Campylobacter** | BMI\_PKU\_r | | | | 0.14 | 1.00 | | Non-significant | | |
| **Cardiobacterium** | BMI\_PKU\_r | | | | -0.13 | 1.00 | | Non-significant | | |
| **Tannerella** | BMI\_PKU\_r | | | | -0.11 | 1.00 | | Non-significant | | |
| **Veillonella** | BMI\_PKU\_r | | | | 0.06 | 1.00 | | Non-significant | | |
| **Porphyromonas** | BMI\_PKU\_r | | | | -0.05 | 1.00 | | Non-significant | | |
| **Streptococcus** | BMI\_PKU\_r | | | | 0.07 | 1.00 | | Non-significant | | |
| **Lautropia** | BMI\_PKU\_r | | | | -0.03 | 1.00 | | Non-significant | | |
| **Gemella** | BMI\_PKU\_r | | | | 0.06 | 1.00 | | Non-significant | | |
| **Atopobium** | BMI\_PKU\_r | | | | -0.04 | 1.00 | | Non-significant | | |
| **Aggregatibacter** | BMI\_PKU\_r | | | | 0.01 | 1.00 | | Non-significant | | |
| **Olsenella** | BMI\_PKU\_r | | | | -0.10 | 1.00 | | Non-significant | | |
| **Selenomonas** | BMI\_PKU\_r | | | | -0.08 | 1.00 | | Non-significant | | |
| **Lachnoanaerobaculum** | BMI\_PKU\_r | | | | 0.11 | 1.00 | | Non-significant | | |
| **Peptococcus** | BMI\_PKU\_r | | | | 0.05 | 1.00 | | Non-significant | | |
| **Peptostreptococcus** | BMI\_PKU\_r | | | | -0.05 | 1.00 | | Non-significant | | |
| **Leptotrichia** | BMI\_PKU\_r | | | | 0.04 | 1.00 | | Non-significant | | |
| **Fusobacterium** | DMFT\_CTRL\_r | | | | -0.08 | 1.00 | | Non-significant | | |
| **Actinomyces** | DMFT\_CTRL\_r | | | | 0.06 | 1.00 | | Non-significant | | |
| **Prevotella** | DMFT\_CTRL\_r | | | | 0.04 | 1.00 | | Non-significant | | |
| **Neisseria** | DMFT\_CTRL\_r | | | | -0.03 | 1.00 | | Non-significant | | |
| **Haemophilus** | DMFT\_CTRL\_r | | | | 0.00 | 1.00 | | Non-significant | | |
| **Rothia** | DMFT\_CTRL\_r | | | | 0.07 | 1.00 | | Non-significant | | |
| **Alloprevotella** | DMFT\_CTRL\_r | | | | -0.04 | 1.00 | | Non-significant | | |
| **Campylobacter** | DMFT\_CTRL\_r | | | | -0.06 | 1.00 | | Non-significant | | |
| **Cardiobacterium** | DMFT\_CTRL\_r | | | | 0.03 | 1.00 | | Non-significant | | |
| **Tannerella** | DMFT\_CTRL\_r | | | | -0.08 | 1.00 | | Non-significant | | |
| **Veillonella** | DMFT\_CTRL\_r | | | | 0.03 | 1.00 | | Non-significant | | |
| **Porphyromonas** | DMFT\_CTRL\_r | | | | -0.14 | 1.00 | | Non-significant | | |
| **Streptococcus** | DMFT\_CTRL\_r | | | | 0.01 | 1.00 | | Non-significant | | |
| **Lautropia** | DMFT\_CTRL\_r | | | | 0.04 | 1.00 | | Non-significant | | |
| **Gemella** | DMFT\_CTRL\_r | | | | -0.02 | 1.00 | | Non-significant | | |
| **Atopobium** | DMFT\_CTRL\_r | | | | 0.07 | 1.00 | | Non-significant | | |
| **Aggregatibacter** | DMFT\_CTRL\_r | | | | 0.03 | 1.00 | | Non-significant | | |
| **Olsenella** | DMFT\_CTRL\_r | | | | -0.08 | 1.00 | | Non-significant | | |
| **Selenomonas** | DMFT\_CTRL\_r | | | | -0.02 | 1.00 | | Non-significant | | |
| **Lachnoanaerobaculum** | DMFT\_CTRL\_r | | | | -0.25 | 0.26 | | Non-significant | | |
| **Peptococcus** | DMFT\_CTRL\_r | | | | 0.07 | 1.00 | | Non-significant | | |
| **Peptostreptococcus** | DMFT\_CTRL\_r | | | | 0.10 | 1.00 | | Non-significant | | |
| **Leptotrichia** | DMFT\_CTRL\_r | | | | -0.05 | 1.00 | | Non-significant | | |
| **Fusobacterium** | DMFT\_PKU\_r | | | | 0.12 | 1.00 | | Non-significant | | |
| **Actinomyces** | DMFT\_PKU\_r | | | | -0.02 | 1.00 | | Non-significant | | |
| **Prevotella** | DMFT\_PKU\_r | | | | 0.16 | 1.00 | | Non-significant | | |
| **Neisseria** | DMFT\_PKU\_r | | | | -0.05 | 1.00 | | Non-significant | | |
| **Haemophilus** | DMFT\_PKU\_r | | | | -0.12 | 1.00 | | Non-significant | | |
| **Rothia** | DMFT\_PKU\_r | | | | 0.00 | 1.00 | | Non-significant | | |
| **Alloprevotella** | DMFT\_PKU\_r | | | | 0.04 | 1.00 | | Non-significant | | |
| **Campylobacter** | DMFT\_PKU\_r | | | | 0.06 | 1.00 | | Non-significant | | |
| **Cardiobacterium** | DMFT\_PKU\_r | | | | -0.06 | 1.00 | | Non-significant | | |
| **Tannerella** | DMFT\_PKU\_r | | | | 0.03 | 1.00 | | Non-significant | | |
| **Veillonella** | DMFT\_PKU\_r | | | | -0.07 | 1.00 | | Non-significant | | |
| **Porphyromonas** | DMFT\_PKU\_r | | | | 0.01 | 1.00 | | Non-significant | | |
| **Streptococcus** | DMFT\_PKU\_r | | | | -0.23 | 0.70 | | Non-significant | | |
| **Lautropia** | DMFT\_PKU\_r | | | | 0.00 | 1.00 | | Non-significant | | |
| **Gemella** | DMFT\_PKU\_r | | | | -0.07 | 1.00 | | Non-significant | | |
| **Atopobium** | DMFT\_PKU\_r | | | | 0.05 | 1.00 | | Non-significant | | |
| **Aggregatibacter** | DMFT\_PKU\_r | | | | 0.14 | 1.00 | | Non-significant | | |
| **Olsenella** | DMFT\_PKU\_r | | | | -0.07 | 1.00 | | Non-significant | | |
| **Selenomonas** | DMFT\_PKU\_r | | | | 0.04 | 1.00 | | Non-significant | | |
| **Lachnoanaerobaculum** | DMFT\_PKU\_r | | | | -0.05 | 1.00 | | Non-significant | | |
| **Peptococcus** | DMFT\_PKU\_r | | | | 0.03 | 1.00 | | Non-significant | | |
| **Peptostreptococcus** | DMFT\_PKU\_r | | | | -0.01 | 1.00 | | Non-significant | | |
| **Leptotrichia** | DMFT\_PKU\_r | | | | -0.09 | 1.00 | | Non-significant | | |
| **Fusobacterium** | PSI\_CTRL\_r | | | | -0.06 | 1.00 | | Non-significant | | |
| **Actinomyces** | PSI\_CTRL\_r | | | | 0.05 | 1.00 | | Non-significant | | |
| **Prevotella** | PSI\_CTRL\_r | | | | 0.12 | 1.00 | | Non-significant | | |
| **Neisseria** | PSI\_CTRL\_r | | | | -0.06 | 1.00 | | Non-significant | | |
| **Haemophilus** | PSI\_CTRL\_r | | | | 0.02 | 1.00 | | Non-significant | | |
| **Rothia** | PSI\_CTRL\_r | | | | 0.02 | 1.00 | | Non-significant | | |
| **Alloprevotella** | PSI\_CTRL\_r | | | | 0.06 | 1.00 | | Non-significant | | |
| **Campylobacter** | PSI\_CTRL\_r | | | | -0.11 | 1.00 | | Non-significant | | |
| **Cardiobacterium** | PSI\_CTRL\_r | | | | -0.16 | 1.00 | | Non-significant | | |
| **Tannerella** | PSI\_CTRL\_r | | | | -0.02 | 1.00 | | Non-significant | | |
| **Veillonella** | PSI\_CTRL\_r | | | | -0.05 | 1.00 | | Non-significant | | |
| **Porphyromonas** | PSI\_CTRL\_r | | | | 0.00 | 1.00 | | Non-significant | | |
| **Streptococcus** | PSI\_CTRL\_r | | | | 0.05 | 1.00 | | Non-significant | | |
| **Lautropia** | PSI\_CTRL\_r | | | | 0.02 | 1.00 | | Non-significant | | |
| **Gemella** | PSI\_CTRL\_r | | | | 0.00 | 1.00 | | Non-significant | | |
| **Atopobium** | PSI\_CTRL\_r | | | | 0.16 | 1.00 | | Non-significant | | |
| **Aggregatibacter** | PSI\_CTRL\_r | | | | -0.19 | 1.00 | | Non-significant | | |
| **Olsenella** | PSI\_CTRL\_r | | | | -0.02 | 1.00 | | Non-significant | | |
| **Selenomonas** | PSI\_CTRL\_r | | | | -0.01 | 1.00 | | Non-significant | | |
| **Lachnoanaerobaculum** | PSI\_CTRL\_r | | | | -0.24 | 0.38 | | Non-significant | | |
| **Peptococcus** | PSI\_CTRL\_r | | | | 0.16 | 1.00 | | Non-significant | | |
| **Peptostreptococcus** | PSI\_CTRL\_r | | | | 0.14 | 1.00 | | Non-significant | | |
| **Leptotrichia** | PSI\_CTRL\_r | | | | -0.19 | 1.00 | | Non-significant | | |
| **Fusobacterium** | PSI\_PKU\_r | | | | 0.08 | 1.00 | | Non-significant | | |
| **Actinomyces** | PSI\_PKU\_r | | | | -0.06 | 1.00 | | Non-significant | | |
| **Prevotella** | PSI\_PKU\_r | | | | 0.11 | 1.00 | | Non-significant | | |
| **Neisseria** | PSI\_PKU\_r | | | | -0.15 | 1.00 | | Non-significant | | |
| **Haemophilus** | PSI\_PKU\_r | | | | -0.03 | 1.00 | | Non-significant | | |
| **Rothia** | PSI\_PKU\_r | | | | -0.07 | 1.00 | | Non-significant | | |
| **Alloprevotella** | PSI\_PKU\_r | | | | -0.06 | 1.00 | | Non-significant | | |
| **Campylobacter** | PSI\_PKU\_r | | | | 0.07 | 1.00 | | Non-significant | | |
| **Cardiobacterium** | PSI\_PKU\_r | | | | -0.09 | 1.00 | | Non-significant | | |
| **Tannerella** | PSI\_PKU\_r | | | | 0.00 | 1.00 | | Non-significant | | |
| **Veillonella** | PSI\_PKU\_r | | | | 0.05 | 1.00 | | Non-significant | | |
| **Porphyromonas** | PSI\_PKU\_r | | | | -0.03 | 1.00 | | Non-significant | | |
| **Streptococcus** | PSI\_PKU\_r | | | | -0.03 | 1.00 | | Non-significant | | |
| **Lautropia** | PSI\_PKU\_r | | | | -0.08 | 1.00 | | Non-significant | | |
| **Gemella** | PSI\_PKU\_r | | | | -0.01 | 1.00 | | Non-significant | | |
| **Atopobium** | PSI\_PKU\_r | | | | -0.07 | 1.00 | | Non-significant | | |
| **Aggregatibacter** | PSI\_PKU\_r | | | | 0.11 | 1.00 | | Non-significant | | |
| **Olsenella** | PSI\_PKU\_r | | | | -0.08 | 1.00 | | Non-significant | | |
| **Selenomonas** | PSI\_PKU\_r | | | | -0.04 | 1.00 | | Non-significant | | |
| **Lachnoanaerobaculum** | PSI\_PKU\_r | | | | 0.06 | 1.00 | | Non-significant | | |
| **Peptococcus** | PSI\_PKU\_r | | | | 0.05 | 1.00 | | Non-significant | | |
| **Peptostreptococcus** | PSI\_PKU\_r | | | | 0.05 | 1.00 | | Non-significant | | |
| **Leptotrichia** | PSI\_PKU\_r | | | | -0.01 | 1.00 | | Non-significant | | |
| **Fusobacterium** | PCR\_CTRL\_r | | | | -0.05 | 1.00 | | Non-significant | | |
| **Actinomyces** | PCR\_CTRL\_r | | | | -0.11 | 1.00 | | Non-significant | | |
| **Prevotella** | PCR\_CTRL\_r | | | | 0.04 | 1.00 | | Non-significant | | |
| **Neisseria** | PCR\_CTRL\_r | | | | 0.01 | 1.00 | | Non-significant | | |
| **Haemophilus** | PCR\_CTRL\_r | | | | -0.11 | 1.00 | | Non-significant | | |
| **Rothia** | PCR\_CTRL\_r | | | | -0.12 | 1.00 | | Non-significant | | |
| **Alloprevotella** | PCR\_CTRL\_r | | | | 0.15 | 1.00 | | Non-significant | | |
| **Campylobacter** | PCR\_CTRL\_r | | | | -0.07 | 1.00 | | Non-significant | | |
| **Cardiobacterium** | PCR\_CTRL\_r | | | | -0.04 | 1.00 | | Non-significant | | |
| **Tannerella** | PCR\_CTRL\_r | | | | 0.18 | 1.00 | | Non-significant | | |
| **Veillonella** | PCR\_CTRL\_r | | | | -0.19 | 1.00 | | Non-significant | | |
| **Porphyromonas** | PCR\_CTRL\_r | | | | 0.03 | 1.00 | | Non-significant | | |
| **Streptococcus** | PCR\_CTRL\_r | | | | -0.09 | 1.00 | | Non-significant | | |
| **Lautropia** | PCR\_CTRL\_r | | | | -0.08 | 1.00 | | Non-significant | | |
| **Gemella** | PCR\_CTRL\_r | | | | -0.08 | 1.00 | | Non-significant | | |
| **Atopobium** | PCR\_CTRL\_r | | | | -0.01 | 1.00 | | Non-significant | | |
| **Aggregatibacter** | PCR\_CTRL\_r | | | | -0.03 | 1.00 | | Non-significant | | |
| **Olsenella** | PCR\_CTRL\_r | | | | -0.05 | 1.00 | | Non-significant | | |
| **Selenomonas** | PCR\_CTRL\_r | | | | 0.02 | 1.00 | | Non-significant | | |
| **Lachnoanaerobaculum** | PCR\_CTRL\_r | | | | 0.01 | 1.00 | | Non-significant | | |
| **Peptococcus** | PCR\_CTRL\_r | | | | 0.26 | 0.20 | | Non-significant | | |
| **Peptostreptococcus** | PCR\_CTRL\_r | | | | 0.21 | 0.73 | | Non-significant | | |
| **Leptotrichia** | PCR\_CTRL\_r | | | | -0.16 | 1.00 | | Non-significant | | |
| **Fusobacterium** | PCR\_PKU\_r | | | | 0.06 | 1.00 | | Non-significant | | |
| **Actinomyces** | PCR\_PKU\_r | | | | -0.26 | 0.32 | | Non-significant | | |
| **Prevotella** | PCR\_PKU\_r | | | | 0.08 | 1.00 | | Non-significant | | |
| **Neisseria** | PCR\_PKU\_r | | | | -0.01 | 1.00 | | Non-significant | | |
| **Haemophilus** | PCR\_PKU\_r | | | | 0.00 | 1.00 | | Non-significant | | |
| **Rothia** | PCR\_PKU\_r | | | | -0.10 | 1.00 | | Non-significant | | |
| **Alloprevotella** | PCR\_PKU\_r | | | | 0.08 | 1.00 | | Non-significant | | |
| **Campylobacter** | PCR\_PKU\_r | | | | 0.02 | 1.00 | | Non-significant | | |
| **Cardiobacterium** | PCR\_PKU\_r | | | | -0.03 | 1.00 | | Non-significant | | |
| **Tannerella** | PCR\_PKU\_r | | | | 0.03 | 1.00 | | Non-significant | | |
| **Veillonella** | PCR\_PKU\_r | | | | -0.01 | 1.00 | | Non-significant | | |
| **Porphyromonas** | PCR\_PKU\_r | | | | 0.11 | 1.00 | | Non-significant | | |
| **Streptococcus** | PCR\_PKU\_r | | | | -0.09 | 1.00 | | Non-significant | | |
| **Lautropia** | PCR\_PKU\_r | | | | -0.17 | 1.00 | | Non-significant | | |
| **Gemella** | PCR\_PKU\_r | | | | 0.02 | 1.00 | | Non-significant | | |
| **Atopobium** | PCR\_PKU\_r | | | | 0.07 | 1.00 | | Non-significant | | |
| **Aggregatibacter** | PCR\_PKU\_r | | | | 0.20 | 1.00 | | Non-significant | | |
| **Olsenella** | PCR\_PKU\_r | | | | 0.06 | 1.00 | | Non-significant | | |
| **Selenomonas** | PCR\_PKU\_r | | | | -0.04 | 1.00 | | Non-significant | | |
| **Lachnoanaerobaculum** | PCR\_PKU\_r | | | | 0.02 | 1.00 | | Non-significant | | |
| **Peptococcus** | PCR\_PKU\_r | | | | 0.12 | 1.00 | | Non-significant | | |
| **Peptostreptococcus** | PCR\_PKU\_r | | | | 0.11 | 1.00 | | Non-significant | | |
| **Leptotrichia** | PCR\_PKU\_r | | | | 0.02 | 1.00 | | Non-significant | | |
| **Fusobacterium** | GBI\_CTRL\_r | | | | 0.05 | 1.00 | | Non-significant | | |
| **Actinomyces** | GBI\_CTRL\_r | | | | 0.01 | 1.00 | | Non-significant | | |
| **Prevotella** | GBI\_CTRL\_r | | | | 0.00 | 1.00 | | Non-significant | | |
| **Neisseria** | GBI\_CTRL\_r | | | | -0.04 | 1.00 | | Non-significant | | |
| **Haemophilus** | GBI\_CTRL\_r | | | | -0.09 | 1.00 | | Non-significant | | |
| **Rothia** | GBI\_CTRL\_r | | | | -0.01 | 1.00 | | Non-significant | | |
| **Alloprevotella** | GBI\_CTRL\_r | | | | 0.00 | 1.00 | | Non-significant | | |
| **Campylobacter** | GBI\_CTRL\_r | | | | 0.00 | 1.00 | | Non-significant | | |
| **Cardiobacterium** | GBI\_CTRL\_r | | | | -0.06 | 1.00 | | Non-significant | | |
| **Tannerella** | GBI\_CTRL\_r | | | | 0.03 | 1.00 | | Non-significant | | |
| **Veillonella** | GBI\_CTRL\_r | | | | -0.14 | 1.00 | | Non-significant | | |
| **Porphyromonas** | GBI\_CTRL\_r | | | | -0.15 | 1.00 | | Non-significant | | |
| **Streptococcus** | GBI\_CTRL\_r | | | | -0.01 | 1.00 | | Non-significant | | |
| **Lautropia** | GBI\_CTRL\_r | | | | 0.03 | 1.00 | | Non-significant | | |
| **Gemella** | GBI\_CTRL\_r | | | | -0.02 | 1.00 | | Non-significant | | |
| **Atopobium** | GBI\_CTRL\_r | | | | 0.04 | 1.00 | | Non-significant | | |
| **Aggregatibacter** | GBI\_CTRL\_r | | | | 0.02 | 1.00 | | Non-significant | | |
| **Olsenella** | GBI\_CTRL\_r | | | | 0.03 | 1.00 | | Non-significant | | |
| **Selenomonas** | GBI\_CTRL\_r | | | | -0.03 | 1.00 | | Non-significant | | |
| **Lachnoanaerobaculum** | GBI\_CTRL\_r | | | | -0.22 | 0.66 | | Non-significant | | |
| **Peptococcus** | GBI\_CTRL\_r | | | | 0.08 | 1.00 | | Non-significant | | |
| **Peptostreptococcus** | GBI\_CTRL\_r | | | | 0.03 | 1.00 | | Non-significant | | |
| **Leptotrichia** | GBI\_CTRL\_r | | | | -0.14 | 1.00 | | Non-significant | | |
| **Fusobacterium** | GBI\_PKU\_r | | | | 0.20 | 1.00 | | Non-significant | | |
| **Actinomyces** | GBI\_PKU\_r | | | | -0.26 | 0.32 | | Non-significant | | |
| **Prevotella** | GBI\_PKU\_r | | | | 0.24 | 0.47 | | Non-significant | | |
| **Neisseria** | GBI\_PKU\_r | | | | -0.09 | 1.00 | | Non-significant | | |
| **Haemophilus** | GBI\_PKU\_r | | | | -0.12 | 1.00 | | Non-significant | | |
| **Rothia** | GBI\_PKU\_r | | | | -0.17 | 1.00 | | Non-significant | | |
| **Alloprevotella** | GBI\_PKU\_r | | | | 0.07 | 1.00 | | Non-significant | | |
| **Campylobacter** | GBI\_PKU\_r | | | | 0.09 | 1.00 | | Non-significant | | |
| **Cardiobacterium** | GBI\_PKU\_r | | | | -0.10 | 1.00 | | Non-significant | | |
| **Tannerella** | GBI\_PKU\_r | | | | 0.10 | 1.00 | | Non-significant | | |
| **Veillonella** | GBI\_PKU\_r | | | | -0.09 | 1.00 | | Non-significant | | |
| **Porphyromonas** | GBI\_PKU\_r | | | | 0.17 | 1.00 | | Non-significant | | |
| **Streptococcus** | GBI\_PKU\_r | | | | -0.21 | 0.97 | | Non-significant | | |
| **Lautropia** | GBI\_PKU\_r | | | | -0.31 | 0.07 | | Non-significant | | |
| **Gemella** | GBI\_PKU\_r | | | | -0.20 | 1.00 | | Non-significant | | |
| **Atopobium** | GBI\_PKU\_r | | | | 0.00 | 1.00 | | Non-significant | | |
| **Aggregatibacter** | GBI\_PKU\_r | | | | 0.13 | 1.00 | | Non-significant | | |
| **Olsenella** | GBI\_PKU\_r | | | | -0.01 | 1.00 | | Non-significant | | |
| **Selenomonas** | GBI\_PKU\_r | | | | 0.03 | 1.00 | | Non-significant | | |
| **Lachnoanaerobaculum** | GBI\_PKU\_r | | | | -0.03 | 1.00 | | Non-significant | | |
| **Peptococcus** | GBI\_PKU\_r | | | | 0.17 | 1.00 | | Non-significant | | |
| **Peptostreptococcus** | GBI\_PKU\_r | | | | 0.13 | 1.00 | | Non-significant | | |
| **Leptotrichia** | GBI\_PKU\_r | | | | -0.07 | 1.00 | | Non-significant | | |