**Table S4**: Chao1 statistics. Statistically significant values are highlighted in bold. Dental calculi samples recovered from teeth attached to bone fragments that enabled gender or age determination are shown as Calculi (Bone). Results are representative of unfiltered OTUs from soil and blank controls.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Group1** | **Group2** | **Group1 mean** | **Group1 std** | **Group2 mean** | **Group2 std** | **t stat** | **p-value** |
| Soil | Coprolite | 246.022 | 0.000 | 347.131 | 72.828 | -1.134 | 1.000 |
| Control | Coprolite | 480.246 | 0.000 | 347.131 | 72.828 | 1.492 | 1.000 |
| Subgingival plaque | Stool | 468.252 | 118.645 | 566.566 | 56.175 | -1.444 | 1.000 |
| Control | Calculi | 480.246 | 0.000 | 695.895 | 209.672 | -0.946 | 1.000 |
| Saliva | Calculi | 535.714 | 45.932 | 695.895 | 209.672 | -1.418 | 1.000 |
| Saliva | Stool | 535.714 | 45.932 | 566.566 | 56.175 | -0.782 | 1.000 |
| Control | Stool | 480.246 | 0.000 | 566.566 | 56.175 | -1.255 | 1.000 |
| Soil | Saliva | 246.022 | 0.000 | 535.714 | 45.932 | -4.885 | 1.000 |
| Saliva | Subgingival plaque | 535.714 | 45.932 | 468.252 | 118.645 | 0.918 | 1.000 |
| Control | Subgingival plaque | 480.246 | 0.000 | 468.252 | 118.645 | 0.078 | 1.000 |
| Saliva | Coprolite | 535.714 | 45.932 | 347.131 | 72.828 | 3.978 | 0.630 |
| Coprolite | Supragingival plaque | 347.131 | 72.828 | 474.793 | 74.479 | -2.281 | 1.000 |
| Saliva | Supragingival plaque | 535.714 | 45.932 | 474.793 | 74.479 | 1.206 | 1.000 |
| Coprolite | Subgingival plaque | 347.131 | 72.828 | 468.252 | 118.645 | -1.660 | 1.000 |
| Calculi | Supragingival plaque | 695.895 | 209.672 | 474.792 | 74.479 | 1.933 | 1.000 |
| Control | Soil | 480.246 | 0.000 | 246.022 | 0.000 | None | None |
| Calculi | Subgingival plaque | 695.895 | 209.672 | 468.252 | 118.645 | 1.931 | 1.000 |
| Coprolite | Calculi (Bone) | 347.131 | 72.828 | 80.672 | 48.598 | 4.875 | 0.910 |
| Saliva | Calculi (Bone) | 535.714 | 45.932 | 80.672 | 48.598 | 10.692 | 1.000 |
| Control | Calculi (Bone) | 480.246 | 0.000 | 80.672 | 48.598 | 5.814 | 1.000 |
| Control | Supragingival plaque | 480.246 | 0.000 | 474.793 | 74.479 | 0.057 | 1.000 |
| Coprolite | Calculi | 347.131 | 72.828 | 695.895 | 209.672 | -3.409 | 0.210 |
| Soil | Calculi (Bone) | 246.022 | 0.000 | 80.672 | 48.598 | 2.406 | 1.000 |
| Supragingival plaque | Stool | 474.793 | 74.479 | 566.566 | 56.175 | -1.858 | 1.000 |
| Soil | Supragingival plaque | 246.022 | 0.000 | 474.793 | 74.479 | -2.379 | 1.000 |
| .Subgingival plaque | Supragingival plaque | 468.252 | 118.645 | 474.793 | 74.479 | -0.081 | 1.000 |
| Calculi (Bone) | Supragingival plaque | 80.672 | 48.598 | 474.793 | 74.479 | -6.744 | 0.805 |
| **Calculi** | **Calculi (Bone)** | **695.895** | **209.672** | **80.672** | **48.598** | **4.700** | **0.035** |
| Subgingival plaque | Calculi (Bone) | 468.252 | 118.645 | 80.672 | 48.598 | 4.507 | 0.770 |
| Soil | Subgingival plaque | 246.022 | 0.000 | 468.252 | 118.645 | -1.451 | 1.000 |
| Control | Saliva | 480.246 | 0.000 | 535.714 | 45.932 | -0.935 | 1.000 |
| Soil | Stool | 246.022 | 0.000 | 566.566 | 56.175 | -4.659 | 1.000 |
| Calculi | Stool | 695.895 | 209.672 | 566.566 | 56.175 | 1.277 | 1.000 |
| Calculi (Bone) | Stool | 80.672 | 48.598 | 566.566 | 56.175 | -10.778 | 0.525 |
| Soil | Calculi | 246.022 | 0.000 | 695.895 | 209.672 | -1.974 | 1.000 |
| Coprolite | Stool | 347.131 | 72.828 | 566.566 | 56.175 | -4.772 | 0.175 |