**Additional file 4: Table S3.** **Statistics of beta-diversity analysis.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Predictor | DF | Sum Sq. | pseudo-*F* | R2 | *p*-value |
| Surface material | 1 | 6.14 | 117.61 | 0.17 | 0.001 |
| Surface type | 2 | 2.25 | 21.55 | 0.06 | 0.001 |
| Location | 8 | 7.60 | 18.21 | 0.21 | 0.001 |
| Surface type: Location | 24 | 12.51 | 9.99 | 0.35 | 0.001 |
| Residuals | 138 | 7.20 |  | 0.20 |  |

The best-fit PERMANOVA model for composition differences between the surface microbiomes. The model explained 80% of between sample composition differences based on the Bray-Curtis dissimilarity. Only statistically significant predictors are shown.