|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Species | normal\_weight\_mean | obesity\_mean | *P*-value | FDR\_P |
| Species over-represented in obesity group | s\_\_Prevotella\_nanceiensis | 0.00781037 | 0.017474279 | 0.006335522 | 0.039542395 |
| s\_\_Fusobacterium\_nucleatum\_subsp.\_vincentii | 0.001856621 | 0.004039185 | 1.85E-05 | 0.000479429 |
| s\_\_Peptostreptococcaceae\_XIG-1\_Eubacterium\_sulci | 0.002164788 | 0.004065674 | 0.002718089 | 0.021390175 |
| s\_\_Peptostreptococcus\_stomatis | 0.001251882 | 0.002522018 | 0.002363689 | 0.020372748 |
| s\_\_Solobacterium\_moorei | 0.000755201 | 0.001506545 | 8.04E-05 | 0.001323102 |
| s\_\_Mogibacterium\_diversum | 0.000972043 | 0.001665186 | 0.000892384 | 0.009501265 |
| s\_\_Alloprevotella\_rava | 0.000133634 | 0.000745691 | 7.99E-05 | 0.001323102 |
| s\_\_Catonella\_morbi | 0.001021683 | 0.001564876 | 0.003741319 | 0.027087147 |
| s\_\_Prevotella\_scopos | 9.69E-06 | 0.000521852 | 0.005797415 | 0.038864155 |
| f\_\_Leptotrichiaceae; Other | 3.15E-05 | 0.000359819 | 0.0026304 | 0.021390175 |
| s\_\_Campylobacter\_sp.\_oral\_taxon\_044 | 9.44E-05 | 0.000340902 | 0.006097543 | 0.03941626 |
| Species over-represented in normal weight control | s\_\_Capnocytophaga\_sp.\_oral\_taxon\_412 | 0.000461271 | 8.66E-05 | 1.72E-05 | 0.000479429 |
| s\_\_Gemella\_sanguinis | 0.000414615 | 0 | 6.04E-08 | 1.09E-05 |
| s\_\_SR1\_G-1\_sp.\_oral\_taxon\_874 | 0.000422969 | 5.15E-06 | 1.98E-07 | 1.79E-05 |
| s\_\_Leptotrichia\_sp.\_oral\_taxon\_392 | 0.000887667 | 0.000169425 | 1.07E-05 | 0.000387844 |
| s\_\_Cardiobacterium\_hominis | 0.001026251 | 0.000287762 | 0.000431649 | 0.005208562 |
| g\_\_SR1\_G-1; Other | 0.000866561 | 8.27E-05 | 1.02E-05 | 0.000387844 |
| s\_\_Bergeyella\_sp.\_oral\_taxon\_322 | 0.002342527 | 0.001198847 | 0.002363689 | 0.020372748 |
| s\_\_Oribacterium\_asaccharolyticum | 0.001625281 | 0.000450563 | 0.006896287 | 0.041607596 |
| s\_\_Leptotrichia\_sp.\_oral\_taxon\_225 | 0.001527866 | 0.000267241 | 9.54E-05 | 0.001328755 |
| s\_\_Staphylococcus\_aureus | 0.001752189 | 4.22E-05 | 0.001696528 | 0.016161666 |
| s\_\_Capnocytophaga\_leadbetteri | 0.002549288 | 0.000727574 | 4.39E-06 | 0.000264693 |
| s\_\_Corynebacterium\_durum | 0.002621374 | 0.000727058 | 9.04E-05 | 0.001328755 |
| s\_\_Gemella\_morbillorum | 0.002846762 | 0.000795951 | 0.001615078 | 0.016161666 |
| g\_\_Rothia; Other | 0.005055856 | 0.001407432 | 5.98E-05 | 0.001202046 |
| g\_\_Fusobacterium; Other | 0.007118946 | 0.002966229 | 0.000295886 | 0.003825385 |
| s\_\_Lautropia\_mirabilis | 0.006915191 | 0.001910146 | 0.000505899 | 0.005722982 |
| s\_\_Neisseria\_mucosa | 0.014260833 | 0.003100194 | 0.00510344 | 0.035527795 |
| g\_\_Streptococcus; Other | 0.029010229 | 0.016446529 | 0.003418059 | 0.025777862 |
| s\_\_Haemophilus\_parainfluenzae | 0.129984576 | 0.070706185 | 5.98E-05 | 0.001202046 |