|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| OTU | Test-Statistic | P | normal\_weight\_mean | obesity\_mean |
| k\_\_Bacteria;p\_\_Actinobacteria;c\_\_Actinobacteria;o\_\_Corynebacteriales | 15.88421157 | 6.73E-05 | 0.003542379 | 0.001453431 |
| k\_\_Bacteria;p\_\_Firmicutes;c\_\_Erysipelotrichia;o\_\_Erysipelotrichales | 15.5486391 | 8.04E-05 | 0.000755201 | 0.001506545 |
| k\_\_Bacteria;p\_\_Proteobacteria;c\_\_Betaproteobacteria;o\_\_Burkholderiales | 11.51221575 | 0.000691403 | 0.00740239 | 0.002293258 |
| k\_\_Bacteria;p\_\_Proteobacteria;c\_\_Gammaproteobacteria;o\_\_Pasteurellales | 11.32154053 | 0.000766131 | 0.161342883 | 0.104695465 |
| k\_\_Bacteria;p\_\_Proteobacteria;c\_\_Gammaproteobacteria;o\_\_Cardiobacteriales | 10.48320645 | 0.001204645 | 0.001264114 | 0.000427185 |
| k\_\_Bacteria;p\_\_Bacteroidetes;c\_\_Bacteroidia;o\_\_Bacteroidales | 8.242474001 | 0.004092132 | 0.139670933 | 0.196114587 |
| k\_\_Bacteria;p\_\_Bacteroidetes;c\_\_Flavobacteriia;o\_\_Flavobacteriales | 7.529531771 | 0.006069568 | 0.012748904 | 0.008017513 |
| k\_\_Bacteria;p\_\_Proteobacteria;c\_\_Gammaproteobacteria;o\_\_Xanthomonadales | 6.775190327 | 0.009243363 | 0.000307566 | 0.000236785 |
| k\_\_Bacteria;p\_\_Firmicutes;c\_\_Mollicutes;o\_\_Mycoplasmatales | 4.641428703 | 0.03120901 | 0.000126696 | 0.000143447 |
| k\_\_Bacteria;p\_\_Firmicutes;c\_\_Clostridia;o\_\_Clostridiales | 4.389162562 | 0.036168074 | 0.024728377 | 0.027698937 |
| k\_\_Bacteria;p\_\_Firmicutes;c\_\_Bacilli;o\_\_Bacillales | 3.035726725 | 0.08145007 | 0.039749561 | 0.030844149 |
| k\_\_Bacteria;p\_\_Gracilibacteria\_GN02;c\_\_GN02\_C-2;o\_\_GN02\_O-2 | 2.806556057 | 0.093879719 | 0.001390592 | 0.000431518 |
| k\_\_Bacteria;p\_\_Fusobacteria;c\_\_Fusobacteriia;o\_\_Fusobacteriales | 2.655172414 | 0.103213565 | 0.033749585 | 0.024704643 |
| k\_\_Bacteria;p\_\_Bacteroidetes;c\_\_Bacteroidetes\_C-1;o\_\_Bacteroidetes\_O-1 | 1.602412008 | 0.205561729 | 0.000713043 | 9.79E-05 |
| k\_\_Bacteria;p\_\_SR1;c\_\_SR1\_C-1;o\_\_SR1\_O-1 | 1.438061789 | 0.230453243 | 0.003233288 | 0.00781292 |
| k\_\_Bacteria;p\_\_Saccharibacteria\_TM7;c\_\_TM7\_C-1;o\_\_TM7\_O-1 | 1.134547445 | 0.286807435 | 0.006564494 | 0.00607076 |
| k\_\_Bacteria;p\_\_Synergistetes;c\_\_Synergistia;o\_\_Synergistales | 0.886566202 | 0.346409534 | 0.000180258 | 0.000153232 |
| k\_\_Bacteria;p\_\_Spirochaetes;c\_\_Spirochaetia;o\_\_Spirochaetales | 0.854338822 | 0.355327797 | 0.001416435 | 0.000897701 |
| k\_\_Bacteria;p\_\_Gracilibacteria\_GN02;c\_\_GN02\_C-1;o\_\_GN02\_O-1 | 0.775048563 | 0.378659756 | 0.000205497 | 0.000167368 |
| k\_\_Bacteria;p\_\_Proteobacteria;c\_\_Betaproteobacteria;o\_\_Neisseriales | 0.46817933 | 0.493825956 | 0.176910086 | 0.204443831 |
| k\_\_Bacteria;p\_\_Actinobacteria;c\_\_Coriobacteriia;o\_\_Coriobacteriales | 0.41205155 | 0.520930052 | 0.004381885 | 0.003134205 |
| k\_\_Bacteria;p\_\_Proteobacteria;c\_\_Gammaproteobacteria;o\_\_Pseudomonadales | 0.310543862 | 0.577346641 | 0.000950997 | 0.0032341 |
| k\_\_Bacteria;p\_\_Firmicutes;c\_\_Negativicutes;o\_\_Selenomonadales | 0.295019157 | 0.587021944 | 0.038145215 | 0.039725049 |
| k\_\_Bacteria;p\_\_Actinobacteria;c\_\_Actinobacteria;o\_\_Actinomycetales | 0.210230383 | 0.646586892 | 0.050556593 | 0.045746339 |
| k\_\_Bacteria;p\_\_Proteobacteria;c\_\_Gammaproteobacteria;o\_\_Enterobacteriales | 0.024134247 | 0.876543815 | 0.000267189 | 0.000309223 |
| k\_\_Bacteria;p\_\_Proteobacteria;c\_\_Epsilonproteobacteria;o\_\_Campylobacterales | 0.014380256 | 0.90454834 | 0.003241035 | 0.003359432 |
| k\_\_Bacteria;p\_\_Firmicutes;c\_\_Bacilli;o\_\_Lactobacillales | 0.006020799 | 0.938151168 | 0.286454805 | 0.286280496 |