|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| OTU | Test-Statistic | P | normal\_weight\_mean | obesity\_mean |
| k\_\_Bacteria;p\_\_Actinobacteria;c\_\_Actinobacteria;o\_\_Corynebacteriales;f\_\_Corynebacteriaceae | 15.88421157 | 6.73E-05 | 0.003542379 | 0.001453431 |
| k\_\_Bacteria;p\_\_Firmicutes;c\_\_Erysipelotrichia;o\_\_Erysipelotrichales;f\_\_Erysipelotrichaceae | 15.5486391 | 8.04E-05 | 0.000755201 | 0.001506545 |
| k\_\_Bacteria;p\_\_Proteobacteria;c\_\_Betaproteobacteria;o\_\_Burkholderiales;f\_\_Burkholderiaceae | 12.09379509 | 0.000505899 | 0.006915191 | 0.001910146 |
| k\_\_Bacteria;p\_\_Proteobacteria;c\_\_Gammaproteobacteria;o\_\_Pasteurellales;f\_\_Pasteurellaceae | 11.32154053 | 0.000766131 | 0.161342883 | 0.104695465 |
| k\_\_Bacteria;p\_\_Proteobacteria;c\_\_Gammaproteobacteria;o\_\_Cardiobacteriales;f\_\_Cardiobacteriaceae | 10.48320645 | 0.001204645 | 0.001264114 | 0.000427185 |
| k\_\_Bacteria;p\_\_Firmicutes;c\_\_Bacilli;o\_\_Bacillales;f\_\_Staphylococcaceae | 9.851939004 | 0.001696528 | 0.001752189 | 4.22E-05 |
| k\_\_Bacteria;p\_\_Bacteroidetes;c\_\_Bacteroidia;o\_\_Bacteroidales;f\_\_Prevotellaceae | 9.329203364 | 0.002255304 | 0.078789421 | 0.127020967 |
| k\_\_Bacteria;p\_\_Firmicutes;c\_\_Clostridia;o\_\_Clostridiales;f\_\_Peptostreptococcaceae\_XI | 8.903269145 | 0.002846606 | 0.008448184 | 0.011817362 |
| k\_\_Bacteria;p\_\_Firmicutes;c\_\_Bacilli;o\_\_Lactobacillales;f\_\_Carnobacteriaceae | 7.842414291 | 0.00510344 | 0.016910846 | 0.030160692 |
| k\_\_Bacteria;p\_\_Bacteroidetes;c\_\_Flavobacteriia;o\_\_Flavobacteriales;f\_\_Flavobacteriaceae | 7.529531771 | 0.006069568 | 0.012748904 | 0.008017513 |
| k\_\_Bacteria;p\_\_Proteobacteria;c\_\_Gammaproteobacteria;o\_\_Xanthomonadales;f\_\_Xanthomonadaceae | 6.775190327 | 0.009243363 | 0.000307566 | 0.000236785 |
| k\_\_Bacteria;p\_\_Proteobacteria;c\_\_Betaproteobacteria;o\_\_Burkholderiales;f\_\_Comamonadaceae | 6.484599692 | 0.010881304 | 0.000487199 | 0.000383112 |
| k\_\_Bacteria;p\_\_Firmicutes;c\_\_Clostridia;o\_\_Clostridiales;f\_\_Peptococcaceae | 5.85420524 | 0.015539874 | 0.000183946 | 0.000350759 |
| k\_\_Bacteria;p\_\_Fusobacteria;c\_\_Fusobacteriia;o\_\_Fusobacteriales;f\_\_Leptotrichiaceae | 4.689704931 | 0.030343858 | 0.009282957 | 0.006843501 |
| k\_\_Bacteria;p\_\_Firmicutes;c\_\_Mollicutes;o\_\_Mycoplasmatales;f\_\_Mycoplasmataceae | 4.641428703 | 0.03120901 | 0.000126696 | 0.000143447 |
| k\_\_Bacteria;p\_\_Firmicutes;c\_\_Clostridia;o\_\_Clostridiales;f\_\_Peptoniphilaceae | 3.035726725 | 0.08145007 | 0.000670291 | 0.000753269 |
| k\_\_Bacteria;p\_\_Gracilibacteria\_GN02;c\_\_GN02\_C-2;o\_\_GN02\_O-2;f\_\_GN02\_F-2 | 2.806556057 | 0.093879719 | 0.001390592 | 0.000431518 |
| k\_\_Bacteria;p\_\_Firmicutes;c\_\_Bacilli;o\_\_Bacillales;f\_\_Gemellaceae | 2.091108126 | 0.14815857 | 0.037997372 | 0.030801959 |
| k\_\_Bacteria;p\_\_Bacteroidetes;c\_\_Bacteroidia;o\_\_Bacteroidales;f\_\_Porphyromonadaceae | 1.630143803 | 0.20168316 | 0.060616326 | 0.068627689 |
| k\_\_Bacteria;p\_\_Bacteroidetes;c\_\_Bacteroidetes\_C-1;o\_\_Bacteroidetes\_O-1;f\_\_Bacteroidetes\_F-1 | 1.602412008 | 0.205561729 | 0.000713043 | 9.79E-05 |
| k\_\_Bacteria;p\_\_SR1;c\_\_SR1\_C-1;o\_\_SR1\_O-1;f\_\_SR1\_F-1 | 1.438061789 | 0.230453243 | 0.003233288 | 0.00781292 |
| k\_\_Bacteria;p\_\_Firmicutes;c\_\_Clostridia;o\_\_Clostridiales;f\_\_Lachnospiraceae\_XIV | 1.421157387 | 0.233212997 | 0.014062373 | 0.013002914 |
| k\_\_Bacteria;p\_\_Saccharibacteria\_TM7;c\_\_TM7\_C-1;o\_\_TM7\_O-1;f\_\_TM7\_F-1 | 1.134547445 | 0.286807435 | 0.006564494 | 0.00607076 |
| k\_\_Bacteria;p\_\_Synergistetes;c\_\_Synergistia;o\_\_Synergistales;f\_\_Synergistaceae | 0.886566202 | 0.346409534 | 0.000180258 | 0.000153232 |
| k\_\_Bacteria;p\_\_Spirochaetes;c\_\_Spirochaetia;o\_\_Spirochaetales;f\_\_Spirochaetaceae | 0.854338822 | 0.355327797 | 0.001416435 | 0.000897701 |
| k\_\_Bacteria;p\_\_Fusobacteria;c\_\_Fusobacteriia;o\_\_Fusobacteriales;f\_\_Fusobacteriaceae | 0.853908544 | 0.355448976 | 0.024466628 | 0.017861142 |
| k\_\_Bacteria;p\_\_Gracilibacteria\_GN02;c\_\_GN02\_C-1;o\_\_GN02\_O-1;f\_\_GN02\_F-1 | 0.775048563 | 0.378659756 | 0.000205497 | 0.000167368 |
| k\_\_Bacteria;p\_\_Bacteroidetes;c\_\_Bacteroidia;o\_\_Bacteroidales;f\_\_Bacteroidales\_F-2 | 0.468415242 | 0.493717136 | 0.000265185 | 0.000465931 |
| k\_\_Bacteria;p\_\_Proteobacteria;c\_\_Betaproteobacteria;o\_\_Neisseriales;f\_\_Neisseriaceae | 0.46817933 | 0.493825956 | 0.176910086 | 0.204443831 |
| k\_\_Bacteria;p\_\_Actinobacteria;c\_\_Coriobacteriia;o\_\_Coriobacteriales;f\_\_Coriobacteriaceae | 0.41205155 | 0.520930052 | 0.004381885 | 0.003134205 |
| k\_\_Bacteria;p\_\_Firmicutes;c\_\_Clostridia;o\_\_Clostridiales;f\_\_Ruminococcaceae | 0.41205155 | 0.520930052 | 0.001363585 | 0.001774632 |
| k\_\_Bacteria;p\_\_Proteobacteria;c\_\_Gammaproteobacteria;o\_\_Pseudomonadales;f\_\_Moraxellaceae | 0.310543862 | 0.577346641 | 0.000950997 | 0.0032341 |
| k\_\_Bacteria;p\_\_Firmicutes;c\_\_Negativicutes;o\_\_Selenomonadales;f\_\_Veillonellaceae | 0.295019157 | 0.587021944 | 0.038145215 | 0.039725049 |
| k\_\_Bacteria;p\_\_Firmicutes;c\_\_Bacilli;o\_\_Lactobacillales;f\_\_Streptococcaceae | 0.150519978 | 0.698038943 | 0.266879269 | 0.254003622 |
| k\_\_Bacteria;p\_\_Actinobacteria;c\_\_Actinobacteria;o\_\_Actinomycetales;f\_\_Micrococcaceae | 0.026322337 | 0.871115602 | 0.028616374 | 0.029106959 |
| k\_\_Bacteria;p\_\_Proteobacteria;c\_\_Gammaproteobacteria;o\_\_Enterobacteriales;f\_\_Enterobacteriaceae | 0.024134247 | 0.876543815 | 0.000267189 | 0.000309223 |
| k\_\_Bacteria;p\_\_Proteobacteria;c\_\_Epsilonproteobacteria;o\_\_Campylobacterales;f\_\_Campylobacteraceae | 0.014380256 | 0.90454834 | 0.003241035 | 0.003359432 |
| k\_\_Bacteria;p\_\_Firmicutes;c\_\_Bacilli;o\_\_Lactobacillales;f\_\_Aerococcaceae | 0.006029302 | 0.9381076 | 0.00266469 | 0.002116182 |
| k\_\_Bacteria;p\_\_Actinobacteria;c\_\_Actinobacteria;o\_\_Actinomycetales;f\_\_Actinomycetaceae | 0.004030452 | 0.949379632 | 0.021940219 | 0.01663938 |