Table S1. Summary of the average number of true positives, true negatives, false positives, false negatives and the resulting Matthews correlation coefficient for each of the clustering methods that were analyzed in this study for each of the six datasets. Blank values indicate that those conditions could not be completed in 50 hours with 45 GB of RAM.

Soil   MCC (separate OTUs)	MCC 8 0.7328
Soil   Accuracy   4771037   10312974895   801151   29212	
Soil   MCC (single OTU)	3 0.7286
Soil	
Soil   VSEARCH (w/AGC)   5993502   13036980300   7913046   17387   1	
Soil	8 0.5760
Soil	
Soil USEARCH (w/AGC)	
Soil   OTUCLUST   6714016   6909706980   18444775   97828   5018   Negative Predictive Value   7382082   10286785610   26990436   31011   Soil   FN   7438201   10283907614   29868432   2540   Soil   Nearest Neighbor   1571726   10313677482   98564   612051   Soil   Sensitivity   7440261   10283040048   30735998   2520   Soil   Furthest Neighbor   501819   10313776046   0   771904   Soil   Swarm   237705   10313776090   5356   74545   Soil   Swarm   237705   10313770690   5356   74545   Soil   Swarm   237705   2871421798   1660277   155021   Marine   MCC (single OTU)   7428998   28714213798   1660277   155021   Marine   MCC (single OTU)   7428998   287142154   1409911   17919   Marine   FPs + FNs   7264205   2871683595   1208470   195675   Marine   Accuracy   7119498   2871802386   1089679   21014   Marine   VSEARCH (w/AGC)   8566881   2865055591   7836474   65401   Marine   VSEARCH (w/AGC)   8867443   2862976753   9915312   35341   Marine   Sumaclust   8867317   2862856105   10035960   35366   Marine   USEARCH (w/AGC)   6929948   2867522405   5369660   22909   Marine   USEARCH (w/AGC)   7352302   2865419824   7472241   186861   Marine   Nearest Neighbor   8914621   2861348612   11543453   3063	
Soil         Negative Predictive Value         7382082         10286735610         26990436         31011           Soil         Nearest Neighbor         1571726         10313677482         98564         2540           Soil         Sensitivity         7440261         10283940488         30735998         2520           Soil         Sensitivity         7440261         10283404048         30735998         2520           Soil         Swarm         237705         10313770690         5356         74545           Marine         MCC (separate OTUs)         7670655         2871231788         1660277         15502           Marine         MCC (single OTU)         7428998         2871482154         1409911         179194           Marine         MCC (single OTU)         7428998         2871482154         1409911         179194           Marine         Accuracy         7111948         2871793258         1152807         200977           Marine         ACURACY         7119498         2871802386         1152807         200971           Marine         VSEARCH (w/AGC)         8867417         2862856105         1089679         21014           Marine         Sumaclust         8867317         2862856105	
Soil         Nearest Neighbor         1571726         10313677482         98564         61205           Soil         Sensitivity         7440261         10283040048         30735998         2520           Soil         Furthest Neighbor         501819         10313776046         0         71904           Soil         Swarm         237705         10313776046         0         71904           Marine         F1-score         7914666         2870997648         1894417         13062           Marine         MCC (single OTU)         7428988         2871482154         1409911         17919           Marine         MCC (single OTU)         7428988         2871482154         1409911         17919           Marine         FPs + FNs         7264205         2871683595         1208470         19567           Marine         Accuracy         7119498         2871802386         1089679         21014           Marine         VSEARCH (w/AGC)         8867317         2862856105         10035960         3536           Marine         SUSEARCH (w/AGC)         8867317         2862856105         10035960         3536           Marine         Average Neighbor         8914621         2861348612         11543453	0.4534
Soil   Sensitivity   7.440261   10283040048   30735998   2520	
Soil         Swarm         237705         10313770690         5356         74545           Marine         F1-score         7914666         2870997648         1984417         13062           Marine         MCC (separate OTUs)         7670655         2871231788         1660277         155021           Marine         MCC (single OTU)         7428998         2871482154         1409911         17919           Marine         FPs +FNs         7264205         2871683595         1208470         195677           Marine         Accuracy         7119498         2871802386         1152807         200977           Marine         Accuracy         7119498         2871802386         1152807         200971           Marine         VSEARCH (w/AGC)         8566881         2865055591         7836474         6540           Marine         SSEARCH (w/AGC)         8867417         28622856105         10035960         3250           Marine         Average Neighbor         8914621         2861348612         11543453         3063           Marine         Average Neighbor         3742329         287262202         2270033         54768           Marine         OTUCLUST         8945456         1834755673         152244	
Marine         F1-score         7914666         2870997648         1894417         13082           Marine         MCC (single OTU)         7670655         2871231798         1660277         155021           Marine         MCC (single OTU)         7428998         2871482154         1409911         17919-17919           Marine         FPS + FNs         7264205         2871683595         1208470         195677           Marine         Accuracy         7111948         2871802386         1089679         21014           Marine         VSEARCH (wAGC)         8566881         2865055591         7836474         6540           Marine         SUSEARCH (wAGC)         8867431         2862856105         10035960         3536           Marine         SUSEARCH (wAGC)         6929948         2867522405         5369660         22509           Marine         USEARCH (wAGC)         7352302         2865419824         7472241         18686           Marine         USEARCH (wAGC)         7352302         2865419824         7472241         18686           Marine         Nearest Neighbor         8945456         1834755673         15224413         2754           Marine         Negative Predictive Value         9131188         <	
Marine         MCC (separate OTUs)         7670655         2871231788         1660277         15502           Marine         MCC (single OTU)         7428998         2871482154         1409911         17919           Marine         FPS + FNs         7264205         2871683595         1208470         19667           Marine         TP + TN         7211154         2871739258         1152807         20097           Marine         Accuracy         711948         2871802386         1152807         20097           Marine         VSEARCH (w/AGC)         8566881         2865055591         7384674         6504           Marine         SUSEARCH (w/AGC)         8867317         2862856105         10035960         3536           Marine         SUSEARCH (w/AGC)         8867317         2862856105         10035960         3536           Marine         USEARCH (w/AGC)         7352302         2865419824         7472241         18686           Marine         Nearest Neighbor         3742329         287622032         270033         54786           Marine         Negative Predictive Value         9131188         285307594         20524471         848           Marine         Predictive Value         9143826         28	
Marine         FPs + FNs         7264205         2871683595         1208470         19567           Marine         TP + TN         7211154         281739258         1152807         20097           Marine         Accuracy         7119498         2871802386         1089679         20097           Marine         VSEARCH (w/AGC)         8867343         2862976753         9915312         3534           Marine         Sumaclust         8867317         2862856105         10035960         3536           Marine         USEARCH (w/GC)         6929948         2867522405         5589660         22909           Marine         Average Neighbor         8914621         2861348612         11543453         3063           Marine         Nearest Neighbor         3742329         287622032         270033         54786           Marine         Negative Predictive Value         9131188         2853099908         19792967         897           Marine         Negative Predictive Value         9131188         2852250720         2064145         771           Marine         Sensitivity         9136046         2852250720         2064145         771           Marine         Furthest Neighbor         620264         2872880199 </td <td>3 0.8266</td>	3 0.8266
Marine         TP + TN         7211154         2871739258         1152807         20097           Marine         Accuracy         7119498         2871802386         1162807         21014           Marine         VSEARCH (w/AGC)         8566881         2865055591         7836474         65401           Marine         USEARCH (w/AGC)         8867443         2862976753         9915312         35344           Marine         USEARCH (w/DGC)         6929948         2867522405         5369660         22909           Marine         Average Neighbor         8914621         2861348612         11543453         3063           Marine         USEARCH (w/AGC)         7352302         2865419824         7472241         18686           Marine         Nearest Neighbor         3742329         2872622032         270033         54786           Marine         Nearest Neighbor         3913188         2853099098         19792967         897           Marine         FN         9143826         2852250720         20641445         711           Marine         Frysert Neighbor         260264         287289065         0         48006           Marine         Furthest Neighbor         260264         287289065         0	
Marine         VSEARCH (w/AGC)         8566881         2865055591         7836474         65401           Marine         VSEARCH (w/AGC)         8867317         2862976753         9915312         3534           Marine         Sumaclust         8867317         2862856105         10035960         3536           Marine         USEARCH (w/DGC)         6929948         2867522405         55869660         229097           Marine         Average Neighbor         8914621         2861348612         11543453         3063           Marine         USEARCH (w/AGC)         7352302         2865419824         7472241         18686           Marine         Nearest Neighbor         3742329         287622032         270033         54786           Marine         OTUCLUST         8945456         1834755673         15224413         2754           Marine         Negative Predictive Value         9131188         2853099098         19792967         897           Marine         FN         9143826         2852250720         20641345         771           Marine         Fursten Neighbor         620264         287289065         0         68006           Marine         Fursten Neighbor         620264         287289065	
Marine         VSEARCH (w/AGC)         8867443         2862976753         9915312         3534           Marine         Sumaclust         8867317         286286105         10035960         3536           Marine         USEARCH (w/DGC)         6929948         2867522405         5369660         22909           Marine         Average Neighbor         8914521         2861348612         11543453         3063           Marine         Nearest Neighbor         3742329         2872622032         270033         54786           Marine         Nearest Neighbor         3742329         2872622032         270033         54786           Marine         OTUCLUST         8945456         1834755673         15224413         2524113           Marine         Sepstivity         9136064         2852367594         2052471         848           Marine         Furthest Neighbor         620264         2872882065         0         86006           Marine         Furthest Neighbor         620264         287288019         4048         997113           Mice         MCC (separate OTUs)         4829770         520373752         491600         69254           Mice         F1-score         4850792         520347542         5	
Marine         Sumaclust         8867317         2862856105         10035960         3536           Marine         USEARCH (w/DGC)         6929948         2867522405         5369960         22909           Marine         Average Neighbor         8914621         2861348612         11543453         3063           Marine         USEARCH (w/AGC)         7352302         28656419824         7472241         18686           Marine         Nearest Neighbor         3742329         2875622032         270033         54786           Marine         Negative Predictive Value         9131188         285099098         19792967         897           Marine         Sensitivity         9136046         2852250720         20641345         771           Marine         Furthest Neighbor         620264         2852280720         20641345         771           Marine         Furthest Neighbor         620264         2852280720         20641345         771           Mice         Furthest Neighbor         620264         285289065         0         86006           Marine         Swarm         149810         2872888019         4046         907111           Mice         MCC (separate OTUs)         4850792         520347542	
Marine         Average Neighbor         8914621         2861348612         11543453         3063           Marine         USEARCH (w/AGC)         7352302         2865419824         7472241         18686:           Marine         Nearest Neighbor         3742329         2872622032         270033         547861           Marine         OTUCLUST         8945456         1834755673         15224413         2754           Marine         Sensitivity         9131188         2850909908         19792967         3897           Marine         Sensitivity         9136046         2852367594         20524471         848           Marine         Furthest Neighbor         620264         2872892065         0         86006           Marine         Furthest Neighbor         620264         2872892065         0         86006           Mice         MCC (separate OTUs)         4829770         520347542         517810         6715           Mice         F1-score         4850792         520347542         517810         6715           Mice         FPs + FNs         4771312         520439150         426202         7513           Mice         MCC (single OTU)         4879087         518832093         2033259	1 0.6703
Marine         USEARICH (w/AGC)         7352302         2865419824         7472241         18686           Marine         Nearest Neighbor         3742329         2872622032         2270033         54786           Marine         OTUCLUST         8945456         1834755673         15224413         27544           Marine         Negative Predictive Value         9131188         2853099098         19792967         897           Marine         FN         9143826         2852250720         20641445         771           Marine         FN         9143826         2852250720         20641445         771           Marine         Furthest Neighbor         620264         2872880199         4046         90711           Mice         MCC (separate OTUs)         4829770         520373752         491600         68225           Mice         MCC (separate OTUs)         4829770         520347542         517810         6715           Mice         FF1-score         4850792         520347542         517810         6715           Mice         FP+ FNs         4771312         520439019         426302         7513           Mice         Accuracy         4769575         520440407         424945         75	
Marine         OTUCLUST         8945456         1834755673         15224413         27544           Marine         Negative Predictive Value         9131188         285099908         19792967         897           Marine         FN         9136046         2852367594         20524471         848           Marine         FN         9136046         2852250720         20641345         771           Marine         Furthest Neighbor         80264         2872892065         0         86006           Marine         Swarm         149810         2872888019         4046         90711           Mice         MCC (separate OTUs)         4829770         520347542         517810         6715           Mice         FPs + FNs         4771312         520439019         426333         7510           Mice         FPs + FNs         4771312         520439019         426302         7513           Mice         Accuracy         4769575         520440407         424945         7527           Mice         MCS (single OTU)         4879087         51882093         2316020         4221           Mice         VSEARCH (w/AGC)         5107987         510882093         2316020         4221	
Marine         Negative Predictive Value         9131188         2853099098         19792967         887           Marine         Sensitivity         9136046         2852367594         20524471         848           Marine         FN         9143826         2852250720         20641345         771           Marine         Furthest Neighbor         620264         2872882065         0         86006           Marine         Swarm         149810         2872888019         4046         90711           Mice         MCC (separate OTUs)         4829770         520373752         491600         6925           Mice         FPS + FNs         4771312         520439019         426333         7510           Mice         FPS + FNs         4771312         520439019         426302         7513           Mice         Accuracy         4769575         520449019         426302         7513           Mice         MCC (single OTU)         4879087         51883093         2033259         6432           Mice         VSEARCH (wAGC)         5100191         517549332         3316020         4221           Mice         SEAPACH (wAGC)         5137976         516662498         4202854         2043 <td></td>	
Marine Marine         Sensitivity         9136046         2852367594         20524471         848           Marine         FN         9143826         2852250720         20641345         771           Marine         FURHest Neighbor         620264         28722892065         0         68006           Marine         Swarm         149810         2872889019         4046         90711           Mice         MCC (separate OTUs)         4829770         520373752         491600         6925           Mice         F1-score         4850792         520347542         517810         6715           Mice         FPs + FNs         4771312         520439019         426333         7510           Mice         Accuracy         4769575         520440407         424945         7527           Mice         MCC (single OTU)         4879087         518832093         2033259         6432           Mice         VSEARCH (w/AGC)         4905962         517883072         2982280         6163           Mice         USEARCH (w/AGC)         4905962         5188072         2982280         6163           Mice         Suraciust         5317976         516662498         4202854         2043	
Marine         Furthest Neighbor         620264         2872892065         0         88006           Marine         Swarm         149810         2872888019         4046         90711           Mice         MCC (separate OTUs)         4829770         520373752         491600         6925           Mice         F1-score         4850792         520347542         517810         6715           Mice         FPs +FNs         4771312         520439160         426333         7510           Mice         TP + TN         4770937         520449160         426202         7513           Mice         Accuracy         4769575         520440407         424945         7527*           Mice         MCC (single OTU)         4879087         518832093         2033259         6432           Mice         VSEARCH (w/AGC)         4905962         517883072         2982280         6432           Mice         Average Neighbor         5326219         516873116         3992236         1961           Mice         Average Neighbor         5326219         516662498         4202854         2043           Mice         VSEARCH (w/AGC)         5322737         516622497         4243282         2991      <	2 0.5504
Marine         Swarm         149810         2872886019         4046         907111           Mice         MCC (separate OTUs)         4829770         520373752         491600         69258           Mice         F1-score         4850792         520347542         517810         69258           Mice         FPs + FNs         4771312         520439019         426303         7510           Mice         TP + TN         4770937         520449150         426202         7513           Mice         Accuracy         4769575         520440407         424945         7527           Mice         WSEARCH (w/AGC)         5100191         517549332         2033259         6432           Mice         VSEARCH (w/AGC)         5100191         517549332         2316020         4221           Mice         USEARCH (w/AGC)         4905862         517883072         2982280         6163           Mice         Sumaclust         5317967         516662498         4202854         2043           Mice         Sumaclust         5317976         516662498         4202854         2043           Mice         USEARCH (w/AGC)         5223737         516662498         4202854         2043	
Mice         MCC (separate OTUs)         4829770         520373752         491600         69252           Mice         FPs + FNs         4771312         520439019         426333         7510           Mice         FPs + FNs         4771312         520439019         426333         7510           Mice         TP + TN         4770937         520439019         426333         7510           Mice         Accuracy         4769575         520440407         426945         7527           Mice         MCC (single OTU)         4879087         518832093         2033259         6432           Mice         VSEARCH (w/AGC)         5100191         517549332         3316020         4221           Mice         USEARCH (w/AGC)         4905962         517883072         2982280         6183           Mice         Average Neighbor         5326219         516873716         3992236         1961           Mice         SUSEARCH (w/AGC)         5243162         516749770         4243282         2938           Mice         VSEARCH (w/AGC)         5243162         516749770         4215582         2791           Mice         Negative Predictive Value         5426962         515767988         5097364         53	
Mice         FPs + FNs         4771312         520439019         426333         7510           Mice         TP + TN         4770937         520439150         426202         7513           Mice         Accuracy         4769575         520440407         424945         7527           Mice         MCC (single OTU)         4879087         518832093         2033259         6432           Mice         VSEARCH (w/AGC)         5100191         517549332         3316020         4221           Mice         USEARCH (w/AGC)         4905962         517883072         2982280         6183           Mice         Average Neighbor         5326219         518673116         3992236         1961           Mice         Sumaclust         5317976         516662498         4202854         2043           Mice         VSEARCH (w/AGC)         5322737         516662498         4202854         2043           Mice         USEARCH (w/AGC)         5243162         516749770         4215822         1995           Mice         Nesitivity         5439118         515571271         5294081         832           Mice         FN         5451490         515436798         54285654         708	
Mice         TP + TN         4770937         520439150         426202         7513           Mice         Accuracy         4769575         520440407         424945         7527           Mice         MCC (single OTU)         4879087         518832093         2033259         6432           Mice         VSEARCH (w/AGC)         4905962         517883072         2982280         4221           Mice         Average Neighbor         5326219         516873116         3992236         1961           Mice         Average Neighbor         5326219         516862498         4202854         2043           Mice         VSEARCH (w/AGC)         5322737         516622070         4243282         1995           Mice         VSEARCH (w/AGC)         5232737         516622070         4243282         1995           Mice         USEARCH (w/AGC)         5243162         516749770         4115582         2791           Mice         Sensitivity         5439118         515571271         5294081         832           Mice         Sensitivity         549118         515571271         5294081         832           Mice         OTUCLUST         5297141         469202414         5087312         2251	
Mice         MCC (single OTU)         4879087         518832093         2033259         6422           Mice         VSEARCH (w/AGC)         5100191         517549332         3316020         4221           Mice         USEARCH (w/DGC)         4905962         517883072         2982280         61631           Mice         Average Neighbor         5326219         516873116         3992236         1961           Mice         VSEARCH (w/AGC)         5322737         516624970         4243282         2043           Mice         VSEARCH (w/AGC)         5322737         516622070         4243282         1995           Mice         USEARCH (w/AGC)         5243162         516749770         4115582         27911           Mice         Negative Predictive Value         5426962         515767988         5097364         953           Mice         Sensitivity         549118         515571271         5294081         82           Mice         FN         5451490         515436798         5428554         708           Mice         OTUCLUST         5297141         469202414         5087312         2251           Mice         Nearest Neighbor         465512         520865352         0         48568 <td></td>	
Mice         VSEARCH (w/AGC)         5100191         517549332         3316020         4221           Mice         USEARCH (w/DGC)         4905962         517883072         2982280         6163           Mice         Average Neighbor         5326219         516873116         3992236         1961           Mice         Sumaclust         5317976         516662498         4202854         2043           Mice         VSEARCH (w/AGC)         5322737         516622070         4243282         1995           Mice         USEARCH (w/AGC)         5243162         516749770         4115582         2791           Mice         Negative Predictive Value         5426962         516767988         5097364         953           Mice         Sensitivity         5439118         515571271         5294081         332           Mice         FN         5451490         515436798         5428554         708           Mice         Nearest Neighbor         1482308         520843996         21446         44000           Mice         Furthest Neighbor         465512         520865352         0         48568           Human         F1-score         26073348         7321213423         2922678         42703	
Mice         USEARCH (w/DGC)         4905962         517883072         2982280         6183           Mice         Average Neighbor         5326219         518673116         3992236         1961           Mice         Sumaclust         5317976         516662498         4202854         2043           Mice         VSEARCH (w/AGC)         5222737         5166624970         4243282         19951           Mice         USEARCH (w/AGC)         5243162         516749770         4115582         2791           Mice         Negative Predictive Value         5426962         515767988         5097364         953           Mice         FN         54514918         515571271         5294081         832           Mice         FN         5451490         515436798         5428554         708           Mice         Nearest Neighbor         1482308         520843906         21446         40400           Mice         Swarm         123709         520434387         370965         42852           Mice         Furthest Neighbor         665512         520865352         0         48568           Human         F1-score         26073348         7321213423         2922678         42703 <tr< td=""><td></td></tr<>	
Mice         Sumaclust         5317976         516682498         4202854         2043           Mice         VSEARCH (w/AGC)         5322737         516622070         4243282         1995           Mice         USEARCH (w/AGC)         5243162         516749770         4115582         2791           Mice         Negative Predictive Value         5428962         515767988         5097364         953           Mice         Sensitivity         5439118         515571271         5294081         832           Mice         FN         5451490         515436798         5428554         708           Mice         OTUCLUST         5297141         469202414         5087312         2251           Mice         Nearest Neighbor         1482308         520843906         21446         44000           Mice         Furthest Neighbor         665512         520865352         0         48568           Human         F1-score         26073348         7321213423         2922678         42703           Human         FPs + FNs         25612998         7321813377         2322724         48307           Human         MC (single OTU)         25680984         7321870325         2265776         49440 </td <td>7 0.7402</td>	7 0.7402
Mice         VSEARCH (w/AGC)         5322737         516622070         4243282         1995           Mice         USEARCH (w/AGC)         5243162         516749770         4115582         2791           Mice         Negative Predictive Value         5426962         515767988         5097364         953           Mice         Sensitivity         5439118         515571271         5294081         832           Mice         FN         5451490         515436798         5428554         708           Mice         OTUCLUST         5297141         469202414         5087312         2251           Mice         Nearest Neighbor         1482308         5208433906         21446         404000           Mice         Swarm         1237099         520494387         379065         248582           Mice         Furthest Neighbor         665512         520865352         0         48568           Human         F1-score         26073348         7321213423         2922678         42703           Human         FPs + FNs         2561298         7321423671         2712430         44820           Human         FPs + FNs         25512998         7321833651         2597540         46628	
Mice         Negative Predictive Value         5426962         515767988         5097364         953           Mice         Sensitivity         5439118         515571271         5294081         832           Mice         FN         5451490         515436798         5428554         708           Mice         OTUCLUST         5297141         469202414         5087312         22511           Mice         Nearest Neighbor         1482308         520849396         21446         40400           Mice         Furthest Neighbor         665512         520865352         0         48568           Human         F1-score         26073348         7321213423         2922678         42703           Human         FPs + FNs         25861724         7321423671         2712430         44820           Human         MCC (separate OTUs)         25861724         7321423671         2712430         44820           Human         MC (single OTU)         258608054         7321183377         2322724         48307           Human         TP + TN         25399667         7321870325         226576         49440           Human         Accuracy         25352243         7321910658         2225443         499144 <td></td>	
Mice         Sensitivity         5439118         515571271         5294081         822           Mice         FN         5451490         515436798         5428554         708:           Mice         OTUCLUST         5297141         469202414         5087312         2251           Mice         Nearest Neighbor         1482308         520843906         21446         40400           Mice         Swarm         1237099         520449387         370965         24852           Mice         Furthest Neighbor         665512         520865352         0         48568           Human         MCC (separate OTUs)         25861724         7321213423         2922678         42703           Human         FPs + FNs         25861724         7321423671         2712430         44820           Human         FPs + FNs         25512998         7321813377         2322724         48307           Human         TP + TN         25399667         7321870325         226576         49440           Human         Accuracy         25382243         7321910658         2225443         49914           Human         VSEARCH (w/AGC)         26845545         7309824393         13411708         349814 <td></td>	
Mice         FN         5451490         515436798         5428554         708           Mice         OTUCLUST         5297141         469020214         5087312         2251           Mice         Nearest Neighbor         1482308         520843906         21446         40400           Mice         Swarm         1237099         520494387         37095         428822           Mice         Furthest Neighbor         665512         520865352         0         48568           Human         F1-score         26073348         7321213423         2922678         42703           Human         MCC (separate OTUs)         25861724         7321423671         2712430         44820           Human         FPs + FNs         25512998         7321813377         2322724         48307           Human         TP + TN         25399687         7321870325         2265776         49440           Human         Accuracy         25352243         7321910658         2225443         49914           Human         VSEARCH (w/AGC)         26845545         7309824393         14311708         349814	
Mice         Nearest Neighbor         1482308         520843906         21446         44000           Mice         Swarm         1237099         520494387         370965         42852           Mice         Furthest Neighbor         665512         520865352         0         48568           Human         F1-score         26073348         7321213423         2922678         42703           Human         MCC (separate OTUs)         25861724         7321423671         2712430         44820           Human         FFs + FNs         25512998         7321813377         2322724         48307           Human         TP + TN         25399667         7321870325         2265776         49440           Human         Accuracy         25352243         7321910658         2225443         49914           Human         VSEARCH (w/AGC)         26845545         7309824393         14311708         349814	9 0.6996
Mice         Swarm         1237099         520494387         370965         42852           Mice         Furthest Neighbor         665512         520865352         0         48568           Human         F1-score         26073348         7321213423         2922678         42703           Human         MCC (separate OTUs)         25861724         7321423671         2712430         44820           Human         FPs + FNs         25512998         7321813377         2322724         48307           Human         MCC (single OTU)         25680854         7321538561         2597540         46628           Human         TP + TN         25399667         7321870325         2265776         49401           Human         Accuracy         25352243         7321910658         2225443         49914           Human         VSEARCH (w/AGC)         26845545         7309824393         14311708         349814	
Human         F1-score         26073348         7321213423         2922678         42703           Human         MCC (separate OTUs)         25861724         7321423671         2712430         448207           Human         FPs + FNs         25512998         7321813377         2322724         48307           Human         MCC (single OTU)         25680854         7321538561         2597540         46628           Human         TP + TN         25399667         7321870325         2265776         49440           Human         Accuracy         25352243         7321910658         2225443         49914           Human         VSEARCH (w/AGC)         26845545         7309824393         14311708         39851	
Human         MCC (separate OTUs)         25861724         7321423671         2712430         44820*           Human         FPs + FNs         25512998         7321813377         2322724         48307*           Human         MCC (single OTU)         25680854         7321538561         2597540         46628           Human         TP + TN         25399667         7321870325         2265776         49404           Human         Accuracy         25352243         7321910658         2225443         49914           Human         VSEARCH (w/AGC)         26845545         7309824393         14311708         349819	
Human         FPs + FNs         25512998         7321813377         2322724         48307-144           Human         MCC (single OTU)         25680954         7321538561         2597540         46628           Human         TP + TN         25399667         7321870325         2265776         49440           Human         Accuracy         25352243         7321910658         2225443         49914           Human         VSEARCH (w/AGC)         26845545         7309824393         1311708         349814	
Human         TP + TN         25399667         7321870325         2265776         49440           Human         Accuracy         25352243         7321910658         2225443         49914           Human         VSEARCH (w/AGC)         26845545         7309824393         14311708         349814	0.8774
Human         Accuracy         25352243         7321910658         2225443         49914           Human         VSEARCH (w/AGC)         26845545         7309824393         14311708         349819	
Human VSEARCH (W/AGC) 28561130 /30155163/ 22584464 178260	
Human Negative Predictive Value 29719012 7292417394 31718707 62473	
Human Sensitivity 29818923 7288099634 36036467 5248	6 0.6657
Human         FN         29888157         7287209148         36926953         45556           Human         Nearest Neighbor         8062473         7323981460         154641         2228126	
Human         Nearest Neighbor         8062473         7323981460         154641         2228120           Human         Swarm         4358052         7323725163         410938         2598560	
Human Furthest Neighbor 2637845 7324136101 0 2770589	
Human Average Neighbor Human OTUCLUST	
Human Sumaclust	
Human USEARCH (w/AGC)	
Human         USEARCH (w/DGC)           Even         MCC (separate OTUs)         17174         66762945         2465         53'	9 0.8171
Even F1-score 17586 66762397 3013 496	7 0.8169
Even MCC (single OTU) 17174 66762930 2480 53' Even TP + TN 16378 66763755 1655 61'	
Even Accuracy 16349 66763784 1626 614	4 0.8130
Even         FPs + FNs         16312         66763795         1615         618           Even         Average Neighbor         15607         66763393         2017         688	
Even         Average Neighbor         15607         66763393         2017         688           Even         Nearest Neighbor         12448         66764886         524         1004	
Even USEARCH (w/DGC) 12950 66762468 2942 95-	4 0.6847
Even         Negative Predictive Value         20746         66744250         21160         174           Even         VSEARCH (w/AGC)         12340         66762579         2831         1015	
Even VSEARCH (w/AGC) 12340 66762579 2831 1015	
Even Furthest Neighbor 9434 66765410 0 1305	
Even         Sumaclust         12559         66761243         4167         993           Even         FN         21047         66738879         26531         144	
Even Sensitivity 21106 66735974 29436 138	7 0.6299
Even         USEARCH (w/AGC)         11260         66761521         3889         1123           Even         OTUCLUST         16844         66725346         18107         564	
Even Swarm 520 66765401 9 2191	
Staggered MCC (separate OTUs) 17069 66763106 2304 543	4 0.8176
Staggered         F1-score         17584         66762432         2978         496           Staggered         MCC (single OTU)         17200         66762827         2583         529	
Staggered Accuracy 16337 66763813 1597 615	6 0.8134
Staggered FPs + FNs 16313 66763811 1599 618	0.8127
Staggered         TP + TN         16319         66763779         1631         617           Staggered         Average Neighbor         16142         66762854         2556         638	
Staggered Nearest Neighbor 12413 66764886 524 1008	0.7276
Staggered Sumaclust 15377 66760390 5020 71	
Staggered VSEARCH (w/AGC) 15095 66760823 4587 739 Staggered USEARCH (w/AGC) 14630 66761174 4236 789	
Staggered VSEARCH (w/AGC) 13567 66762304 3106 893	6 0.7005
Staggered         USEARCH (w/DGC)         13244         66762537         2873         928           Staggered         Negative Predictive Value         20724         66744588         20822         176	
Staggered Furthest Neighbor 9575 66765410 0 129	8 0.6524
Staggered FN 21018 66738538 26872 14	5 0.6413
Staggered         Sensitivity         20981         66737899         27511         15           Staggered         OTUCLUST         15625         66371336         15527         680	
Staggered Swarm 443 66765408 2 2209	