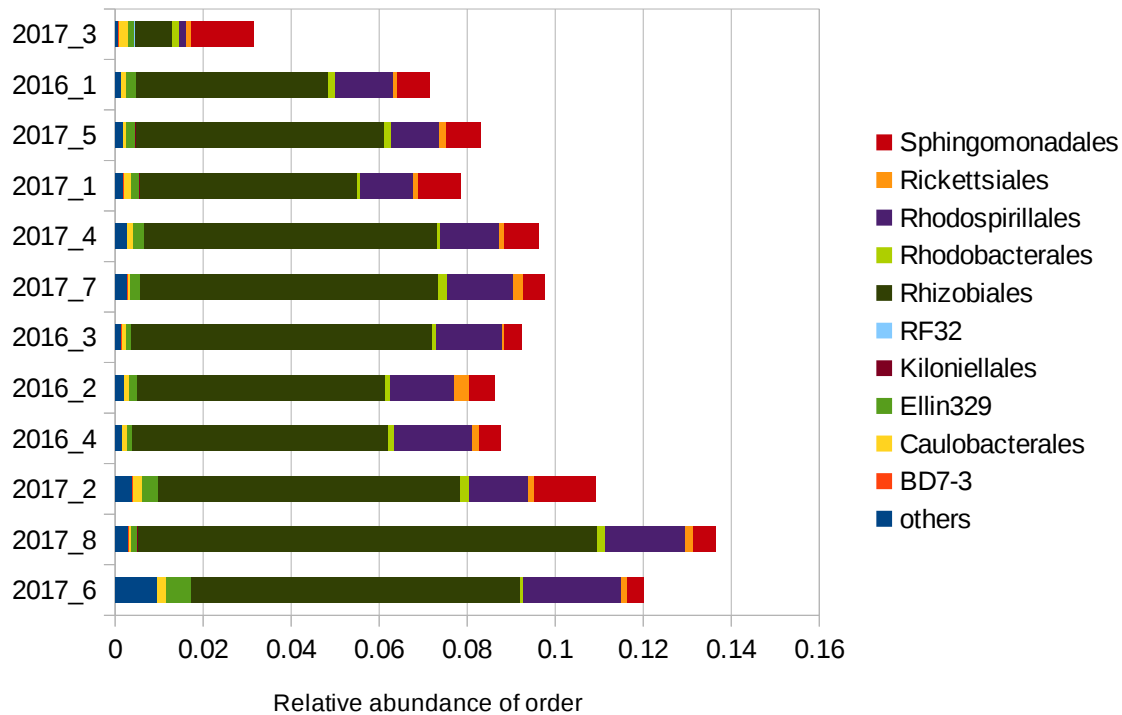
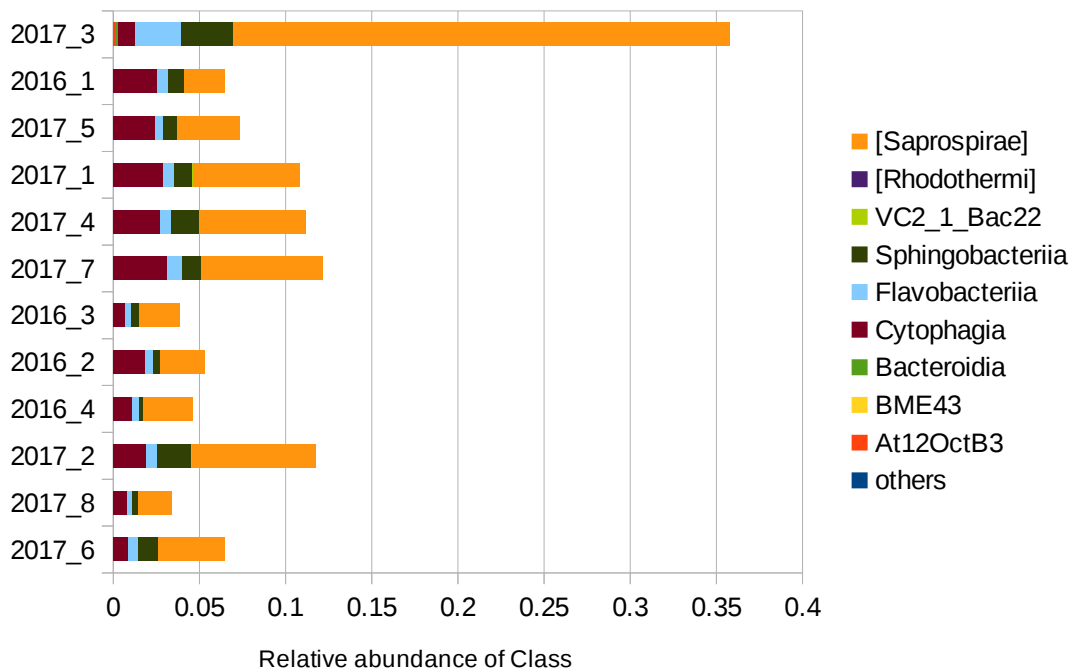


## Distribution of Orders in Alphaproteobactier

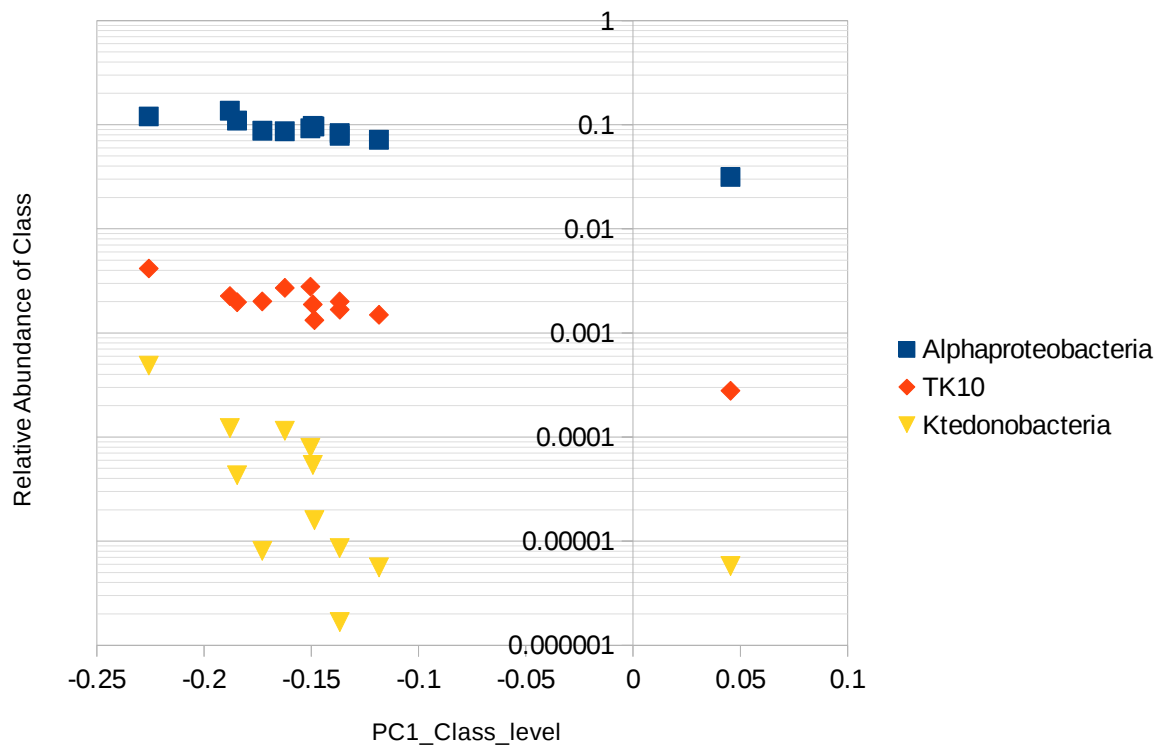
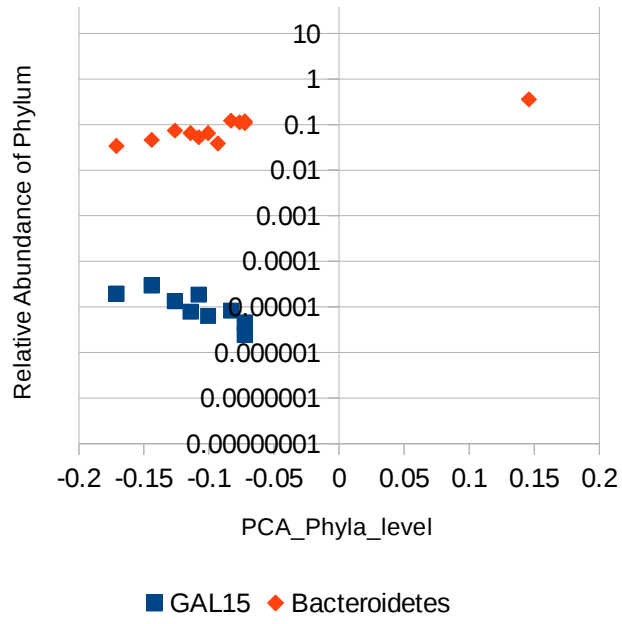


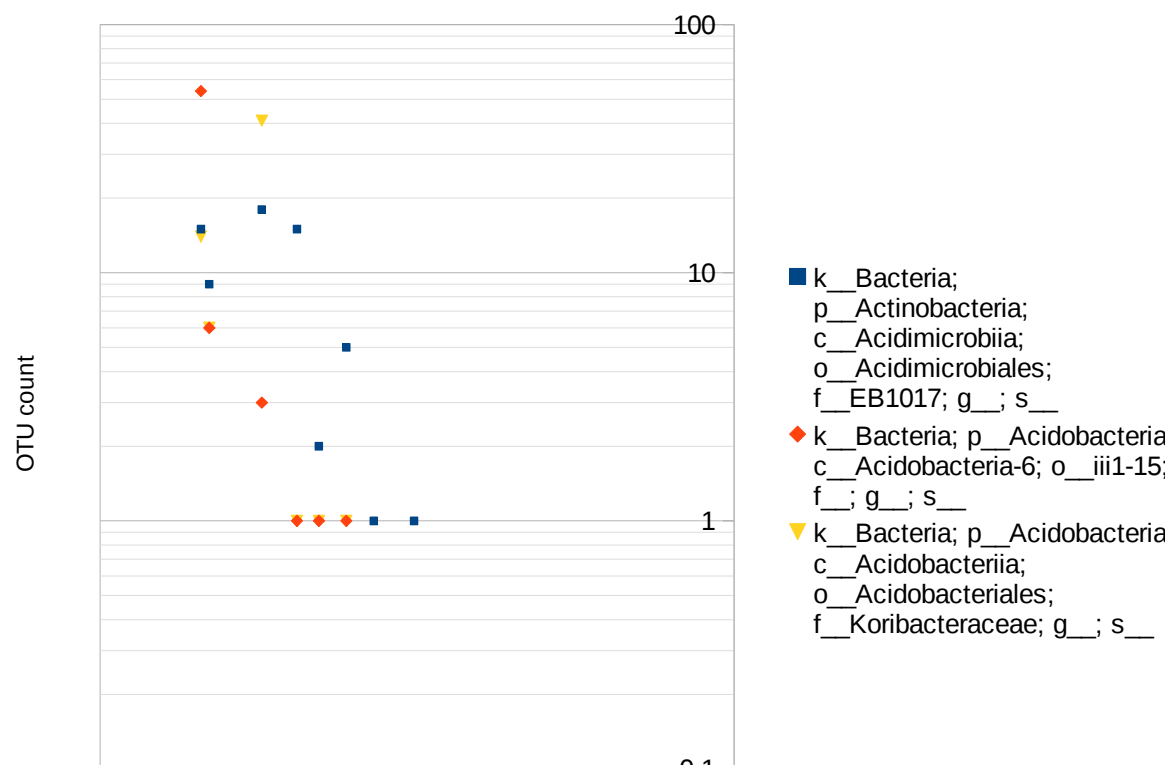
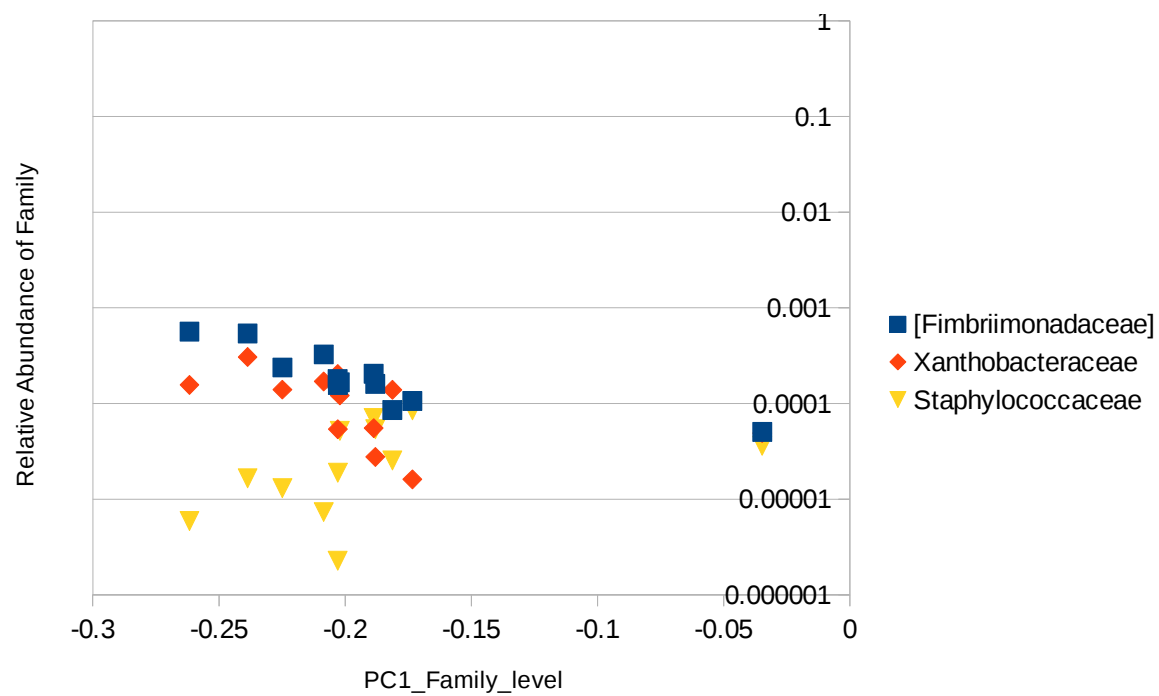
## Distribution of Classes in Bacteroidetes

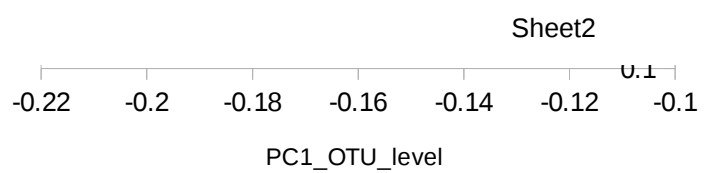


100

Sheet2









l;  
;  
l;



Sheet1

| #SampleID | compare | Sample Name       | Sample Descr | Sample ID | Run ID |
|-----------|---------|-------------------|--------------|-----------|--------|
| 2016_1    | 2016_1  | 16S_Gordon_Square |              | 2016_1    | 2016_1 |
| 2016_3    | 2016_3  | 16S_Gordon_Square |              | 2016_3    | 2016_3 |
| 2016_2    | 2016_2  | 16S_Gordon_Square |              | 2016_2    | 2016_2 |
| 2016_4    | 2016_4  | 16S_Gordon_Square |              | 2016_4    | 2016_4 |
| 2017_2    | 2017_2  | 16S_Gordon_Square |              | 2017_2    | 2017_2 |
| 2017_1    | 2017_1  | 16S_Gordon_Square |              | 2017_1    | 2017_1 |
| 2017_3    | 2017_3  | 16S_Gordon_Square |              | 2017_3    | 2017_3 |
| 2017_4    | 2017_4  | 16S_Gordon_Square |              | 2017_4    | 2017_4 |
| 2017_5    | 2017_5  | 16S_Gordon_Square |              | 2017_5    | 2017_5 |
| 2017_6    | 2017_6  | 16S_Gordon_Square |              | 2017_6    | 2017_6 |
| 2017_7    | 2017_7  | 16S_Gordon_Square |              | 2017_7    | 2017_7 |
| 2017_8    | 2017_8  | 16S_Gordon_Square |              | 2017_8    | 2017_8 |

L2

taxonomy

|                              |             |             |             |             |             |
|------------------------------|-------------|-------------|-------------|-------------|-------------|
| k__Bacteria;p__GAL15         | 6.30632E-06 | 0           | 1.86262E-05 | 2.96025E-05 | 4.57029E-06 |
| k__Bacteria;p__Bacteroidetes | 0.064798828 | 0.038463251 | 0.052829006 | 0.045994241 | 0.117121045 |

L3

taxonomy

|                                   |             |             |             |             |             |
|-----------------------------------|-------------|-------------|-------------|-------------|-------------|
| k__Bacteria;p__Proteobacteria;c__ | 0.071478622 | 0.092491478 | 0.08638199  | 0.087569633 | 0.109373486 |
| k__Bacteria;p__Chloroflexi;c__TK1 | 0.001493897 | 0.002786731 | 0.002714248 | 0.00201028  | 0.00197528  |
| k__Bacteria;p__Chloroflexi;c__Kte | 5.60562E-06 | 7.88938E-05 | 0.000114861 | 8.07341E-06 | 4.29607E-05 |

L4

taxonomy

|                                    |             |             |             |             |             |
|------------------------------------|-------------|-------------|-------------|-------------|-------------|
| k__Bacteria;p__Proteobacteria;c__  | 0.001369172 | 0.001342466 | 0.002038531 | 0.00158508  | 0.003965185 |
| k__Bacteria;p__Actinobacteria;c__  | 0.013776504 | 0.00885646  | 0.013129384 | 0.031602035 | 0.027386104 |
| k__Bacteria;p__Actinobacteria;c__  | 0.0112778   | 0.005826686 | 0.009817029 | 0.020904761 | 0.026372413 |
| k__Bacteria;p__Armatimonadetes;c__ | 0.000153454 | 8.52562E-05 | 0.000187297 | 0.000156086 | 0.000578599 |

L5

taxonomy

|                                    |             |             |             |             |             |
|------------------------------------|-------------|-------------|-------------|-------------|-------------|
| k__Bacteria;p__Armatimonadetes;c__ | 0.000105806 | 8.52562E-05 | 0.000166601 | 0.000156086 | 0.000541123 |
| k__Bacteria;p__Proteobacteria;c__  | 0.001369172 | 0.001342466 | 0.002038531 | 0.00158508  | 0.003965185 |
| k__Bacteria;p__Proteobacteria;c__  | 1.61161E-05 | 0.0001387   | 0.00012107  | 5.38228E-05 | 0.00030621  |
| k__Bacteria;p__Actinobacteria;c__  | 0           | 1.27248E-06 | 1.03479E-05 | 5.38228E-06 | 0.000226686 |
| k__Bacteria;p__Firmicutes;c__Baci  | 0.000084785 | 2.54496E-05 | 5.17394E-05 | 0.000018838 | 1.64531E-05 |
| k__Bacteria;p__Armatimonadetes;c__ | 0           | 0           | 0           | 0           | 4.57029E-06 |
| k__Bacteria;p__Acidobacteria;c__T  | 0.000018919 | 4.83542E-05 | 0.000028974 | 5.38228E-05 | 6.12419E-05 |

OTU

taxonomy

|                                     |   |   |   |   |   |
|-------------------------------------|---|---|---|---|---|
| k__Bacteria; p__Actinobacteria; c__ | 0 | 5 | 2 | 1 | 9 |
| k__Bacteria; p__Acidobacteria; c__  | 0 | 1 | 1 | 0 | 6 |
| k__Bacteria; p__Acidobacteria; c__  | 0 | 1 | 1 | 0 | 6 |



Sheet1

| pca1_unweighted_unifrac | PD_whole_tre | PD_whole_tree_norm |             |
|-------------------------|--------------|--------------------|-------------|
| -0.1588944987           | 53.420071    | -37.7530931        | -37.7530931 |
| -0.1734083502           | 46.111076    | -34.24767          | -34.24767   |
| -0.178612254            | 54.32961     | -37.7084701        | -37.7084701 |
| -0.1682163966           | 51.441517    | -33.5140845        | -33.5140845 |
| -0.1993571503           | 62.101873    | -42.2899438        | -42.2899438 |
| -0.189409743            | 52.738632    | -38.2475474        | -38.2475474 |
| -0.1062547935           | 43.751128    | -33.5696251        | -33.5696251 |
| -0.1827526326           | 56.027202    | -40.4132663        | -40.4132663 |
| -0.1629941146           | 54.398441    | -36.6539732        | -36.6539732 |
| -0.2009299066           | 47.634752    | -31.3145985        | -31.3145985 |
| -0.152856657            | 55.668784    | -35.8745998        | -35.8745998 |
| -0.1606037523           | 53.597421    | -36.8905834        | -36.8905834 |

| pca1_L3       | PD_whole_tre | PD_whole_tree_norm |  |
|---------------|--------------|--------------------|--|
| -0.1184902648 | 53.420071    | -37.7530931        |  |
| -0.150447765  | 46.111076    | -34.24767          |  |
| -0.1623632855 | 54.32961     | -37.7084701        |  |
| -0.1728538859 | 51.441517    | -33.5140845        |  |
| -0.1846149128 | 62.101873    | -42.2899438        |  |
| -0.1368112076 | 52.738632    | -38.2475474        |  |
| 0.0453873483  | 43.751128    | -33.5696251        |  |
| -0.1485541602 | 56.027202    | -40.4132663        |  |
| -0.1367810965 | 54.398441    | -36.6539732        |  |
| -0.2257962679 | 47.634752    | -31.3145985        |  |
| -0.1492770975 | 55.668784    | -35.8745998        |  |
| -0.1880055969 | 53.597421    | -36.8905834        |  |

Sheet1

| Biome  | Experiment typ | Instrument mo  | Release versi | pca1_L2     | pca1_L3     | pca1_L4     |
|--------|----------------|----------------|---------------|-------------|-------------|-------------|
| sample | amplicon       | Illumina MiSeq |               | -0.10066544 | -0.11849026 | -0.15615945 |
| sample | amplicon       | Illumina MiSeq |               | -0.09318462 | -0.15044777 | -0.1662395  |
| sample | amplicon       | Illumina MiSeq |               | -0.10792866 | -0.16236329 | -0.18339065 |
| sample | amplicon       | Illumina MiSeq |               | -0.1440242  | -0.17285389 | -0.19278608 |
| sample | amplicon       | Illumina MiSeq |               | -0.0724556  | -0.18461491 | -0.22141733 |
| sample | amplicon       | Illumina MiSeq |               | -0.07248727 | -0.13681121 | -0.1845634  |
| sample | amplicon       | Illumina MiSeq |               | 0.14584106  | 0.045387348 | -0.06089523 |
| sample | amplicon       | Illumina MiSeq |               | -0.07660038 | -0.14855416 | -0.19099272 |
| sample | amplicon       | Illumina MiSeq |               | -0.12620985 | -0.1367811  | -0.17613504 |
| sample | amplicon       | Illumina MiSeq |               | -0.11413677 | -0.22579627 | -0.24123565 |
| sample | amplicon       | Illumina MiSeq |               | -0.08310558 | -0.1492771  | -0.1793073  |
| sample | amplicon       | Illumina MiSeq |               | -0.17109995 | -0.1880056  | -0.23499936 |

2.44312E-06 0 0 1.33873E-05 7.86008E-06 8.28563E-06 1.95065E-05  
0.107822263 0.3574890859 0.111911131 0.073748751 0.064885965 0.121156674 0.033940357

0.078418079 0.0314621192 0.096229533 0.083081346 0.120162979 0.097624095 0.136502673  
0.002007024 0.00027826 0.001325541 0.001673408 0.004160931 0.001879458 0.002259966  
8.55092E-06 0.000005767 0.000015902 1.67341E-06 0.000486343 5.38566E-05 0.000121683

0.001847 0.0007598083 0.00275331 0.001808954 0.009476312 0.002701116 0.002922257  
0.024279737 0.002726371 0.021016703 0.029425201 0.042403181 0.030274324 0.038521594  
0.016204001 0.0069550574 0.017920365 0.015363556 0.015574754 0.016144557 0.032181057  
0.000338372 5.046165E-05 0.000187416 0.000232604 0.000566908 0.000182284 0.000261944

0.000326157 5.046165E-05 0.000179465 0.000204156 0.000565926 0.000160189 0.000237793  
0.001847 0.0007598083 0.00275331 0.001808954 0.009476312 0.002701116 0.002922257  
0.000169797 4.901989E-05 0.000203318 5.52225E-05 0.000156219 2.76188E-05 0.000139332  
0.000317606 1.585938E-05 0.000180601 4.85288E-05 0.000383179 6.62851E-05 0.000155123  
7.32936E-06 0.000036044 2.27171E-06 7.02831E-05 5.89506E-06 5.38566E-05 1.30043E-05  
2.44312E-06 0 2.27171E-06 0 6.87757E-06 0 0  
0.000153917 0 5.33851E-05 2.51011E-05 0.000348791 9.52848E-05 6.87371E-05

18 0 15 0 15 0 1  
3 0 1 0 54 0 0  
41 0 1 0 14 0 0

PD\_whole\_treeAlphaproteobacteria

-37.75309313 0.071478622  
-34.24766995 0.092491478  
-37.7084701 0.08638199  
-33.51408455 0.087569633  
-42.28994385 0.109373486  
-38.2475474 0.078418079  
-33.56962513 0.031462119  
-40.41326629 0.096229533  
-36.65397325 0.083081346  
-31.31459851 0.120162979  
-35.87459985 0.097624095  
-36.89058336 0.136502673

PD\_whole\_treeBacteroidetes

-37.75309313 0.064798828  
-34.24766995 0.038463251  
-37.7084701 0.052829006  
-33.51408455 0.045994241  
-42.28994385 0.117121045  
-38.2475474 0.107822263  
-33.56962513 0.357489086  
-40.41326629 0.111911131  
-36.65397325 0.073748751  
-31.31459851 0.064885965  
-35.87459985 0.121156674  
-36.89058336 0.033940357

Sheet1

| pca1_L5     | pca1_unweighrandom |             | constant | PD_whole_tre | PD_whole_tre | Latitude  |
|-------------|--------------------|-------------|----------|--------------|--------------|-----------|
| -0.1733718  | -0.1588945         | 0.312865064 | 34       | 53.420071    | 282.7590678  | 51.524735 |
| -0.18130261 | -0.17340835        | 0.819153231 | 35       | 46.111076    | 250.9450889  | 51.524392 |
| -0.20212931 | -0.17861225        | 0.175414018 | 36       | 54.32961     | 282.1168817  | 51.523861 |
| -0.20291905 | -0.1682164         | 0.884593389 | 37       | 51.441517    | 245.3158544  | 51.524309 |
| -0.23865182 | -0.19935715        | 0.085465797 | 38       | 62.101873    | 321.2143745  | 51.524531 |
| -0.20847987 | -0.18940974        | 0.925062344 | 39       | 52.738632    | 285.1937688  | 51.524102 |
| -0.03471949 | -0.10625479        | 0.830912146 | 40       | 43.751128    | 242.1665683  | 51.524341 |
| -0.20293203 | -0.18275263        | 0.106222422 | 41       | 56.027202    | 305.4715348  | 51.524586 |
| -0.18868732 | -0.16299411        | 0.223491957 | 42       | 54.398441    | 270.8291736  | 51.524074 |
| -0.26170908 | -0.20092991        | 0.637291947 | 43       | 47.634752    | 226.1467301  | 51.524073 |
| -0.18804141 | -0.15285666        | 0.195245233 | 44       | 55.668784    | 265.9234894  | 51.524371 |
| -0.2249034  | -0.16060375        | 0.681228137 | 45       | 53.597421    | 273.8214234  | 51.524185 |

Sheet1

| Longitude  | Humidity | pH | Temperature | L2         | GAL15       | Bacteroidetes |
|------------|----------|----|-------------|------------|-------------|---------------|
| -0.13108   |          | 0  | 0           | 0          | 6.30632E-06 | 0.064798828   |
| -0.13112   |          | 0  | 0           | 0          |             | 0 0.038463251 |
| -0.1306    |          | 0  | 0           | 0          | 1.86262E-05 | 0.052829006   |
| -0.130543  |          | 0  | 0           | 0          | 2.96025E-05 | 0.045994241   |
| -0.1309062 |          | 0  | 0           | 0          | 4.57029E-06 | 0.117121045   |
| -0.130661  |          | 0  | 7.5         | 5          | 2.44312E-06 | 0.107822263   |
| -0.130825  |          | 0  | 0           | 0          |             | 0 0.357489086 |
| -0.131266  |          | 0  | 8           | 6          |             | 0 0.111911131 |
| -0.130824  | 85       |    | 5.5         | 8          | 1.33873E-05 | 0.073748751   |
| -0.130863  |          | 0  | 0           | 0          | 7.86008E-06 | 0.064885965   |
| -0.130757  |          | 0  | 0           | 0          | 8.28563E-06 | 0.121156674   |
| -0.130664  |          | 0  | 0           | 0          | 1.95065E-05 | 0.033940357   |
|            |          |    |             | Test stat. | -0.81692167 | 0.783216783   |

Sheet1

| L3         | AlphaproteobaeTK10 | KtedonobacterL4 | k__Bacteria;p_k__Bacteria;p |
|------------|--------------------|-----------------|-----------------------------|
|            | 0.071478622        | 0.001493897     | 5.60562E-06                 |
|            | 0.092491478        | 0.002786731     | 7.88938E-05                 |
|            | 0.08638199         | 0.002714248     | 0.000114861                 |
|            | 0.087569633        | 0.00201028      | 8.07341E-06                 |
|            | 0.109373486        | 0.00197528      | 4.29607E-05                 |
|            | 0.078418079        | 0.002007024     | 8.55092E-06                 |
|            | 0.031462119        | 0.00027826      | 0.000005767                 |
|            | 0.096229533        | 0.001325541     | 0.000015902                 |
|            | 0.083081346        | 0.001673408     | 1.67341E-06                 |
|            | 0.120162979        | 0.004160931     | 0.000486343                 |
|            | 0.097624095        | 0.001879458     | 5.38566E-05                 |
|            | 0.136502673        | 0.002259966     | 0.000121683                 |
| Test stat. | -0.86013986        | -0.78321678     | -0.8041958                  |
|            |                    |                 | Test stat.                  |
|            |                    |                 | -0.85314685                 |
|            |                    |                 | -0.76923077                 |

Sheet1

|                                |                                    |  |
|--------------------------------|------------------------------------|--|
| k__Bacteria;p_k__Bacteria;p L5 | taxonomy                           | [Fimbriimonadk__Bacteria;p_Xanthobactera |
| 0.0112778 0.000153454          | 0.000105806 0.001369172            | 1.61161E-05                              |
| 0.005826686 8.52562E-05        | 8.52562E-05 0.001342466            | 0.0001387                                |
| 0.009817029 0.000187297        | 0.000166601 0.002038531            | 0.00012107                               |
| 0.020904761 0.000156086        | 0.000156086 0.00158508             | 5.38228E-05                              |
| 0.026372413 0.000578599        | 0.000541123 0.003965185            | 0.00030621                               |
| 0.016204001 0.000338372        | 0.000326157 0.001847               | 0.000169797                              |
| 0.006955057 5.04617E-05        | 5.04617E-05 0.000759808            | 4.90199E-05                              |
| 0.017920365 0.000187416        | 0.000179465 0.00275331             | 0.000203318                              |
| 0.015363556 0.000232604        | 0.000204156 0.001808954            | 5.52225E-05                              |
| 0.015574754 0.000566908        | 0.000565926 0.009476312            | 0.000156219                              |
| 0.016144557 0.000182284        | 0.000160189 0.002701116            | 2.76188E-05                              |
| 0.032181057 0.000261944        | 0.000237793 0.002922257            | 0.000139332                              |
| -0.77622378 -0.78321678        | Test stat. -0.91608392 -0.86713287 | -0.7972028                               |

Sheet1

| k__Bacteria;p_Staphylococcak__Bacteria;p k__Bacteria;p OTU | taxonomy | k__Bacteria; p |
|--|----------|----------------|
| 0 0.000084785 0 0.000018919                                |          | 0              |
| 1.27248E-06 2.54496E-05 0 4.83542E-05                      |          | 5              |
| 1.03479E-05 5.17394E-05 0 0.000028974                      |          | 2              |
| 5.38228E-06 0.000018838 0 5.38228E-05                      |          | 1              |
| 0.000226686 1.64531E-05 4.57029E-06 6.12419E-05            |          | 9              |
| 0.000317606 7.32936E-06 2.44312E-06 0.000153917            |          | 18             |
| 1.58594E-05 0.000036044 0 0                                |          | 0              |
| 0.000180601 2.27171E-06 2.27171E-06 5.33851E-05            |          | 15             |
| 4.85288E-05 7.02831E-05 0 2.51011E-05                      |          | 0              |
| 0.000383179 5.89506E-06 6.87757E-06 0.000348791            |          | 15             |
| 6.62851E-05 5.38566E-05 0 9.52848E-05                      |          | 0              |
| 0.000155123 1.30043E-05 0 6.87371E-05                      |          | 1              |
| -0.7972028 0.762237762 -0.75720363 -0.76923077             |          | -0.92932038    |



Sheet1

| k__Bacteria; pk__Bacteria; pa | pc1                | others      | BD7-3       |
|-------------------------------|--------------------|-------------|-------------|
| 0 0                           | -0.22579627 2017_6 | 0.009476312 | 0.000148359 |
| 1 1                           | -0.1880056 2017_8  | 0.002922257 | 0.000185776 |
| 1 1                           | -0.18461491 2017_2 | 0.003965185 | 0.000192866 |
| 0 0                           | -0.17285389 2016_4 | 0.00158508  | 0.000126483 |
| 6 6                           | -0.16236329 2016_2 | 0.002038531 | 0.000183157 |
| 3 41                          | -0.15044777 2016_3 | 0.001342466 | 0.000165422 |
| 0 0                           | -0.1492771 2017_7  | 0.002701116 | 0.000215426 |
| 1 1                           | -0.14855416 2017_4 | 0.00275331  | 9.76834E-05 |
| 0 0                           | -0.13681121 2017_1 | 0.001847    | 0.000247977 |
| 54 14                         | -0.1367811 2017_5  | 0.001808954 | 0.000143913 |
| 0 0                           | -0.11849026 2016_1 | 0.001369172 | 5.74576E-05 |
| 0 0                           | 0.045387348 2017_3 | 0.000759808 | 0.000162919 |
| -0.9073512 -0.90674579        |                    |             |             |

Sheet1

| Caulobacterial Ellin329 | Kiloniellales | RF32        | Rhizobiales | Rhodobactera | Rhodospirillale |             |
|-------------------------|---------------|-------------|-------------|--------------|-----------------|-------------|
| 0.001897227             | 0.005794846   | 0.000001965 | 0           | 0.074765106  | 0.000641579     | 0.022253859 |
| 0.000566617             | 0.001472275   | 2.78664E-06 | 0           | 0.10444237   | 0.001834539     | 0.018063006 |
| 0.002047491             | 0.003520953   | 0           | 0           | 0.068658583  | 0.002016413     | 0.013474135 |
| 0.000880002             | 0.001359025   | 0           | 0           | 0.058142038  | 0.001264835     | 0.017807261 |
| 0.000915787             | 0.0019216     | 6.20872E-06 | 0           | 0.056436275  | 0.000984083     | 0.014616373 |
| 0.001026891             | 0.001182134   | 0           | 0           | 0.068380527  | 0.000843654     | 0.014937642 |
| 0.00061728              | 0.00227993    | 8.28563E-06 | 0           | 0.067541722  | 0.002012028     | 0.01500252  |
| 0.001180152             | 0.002538633   | 0           | 0           | 0.06649856   | 0.000853026     | 0.013354233 |
| 0.001553825             | 0.00201191    | 1.22156E-06 | 0           | 0.04933883   | 0.00079035      | 0.011876012 |
| 0.000714545             | 0.002081719   | 0.000008367 | 0           | 0.056459103  | 0.00149268      | 0.010810214 |
| 0.001143546             | 0.002228233   | 1.75176E-05 | 0           | 0.043667054  | 0.001622826     | 0.013028154 |
| 0.002064602             | 0.001528267   | 1.44176E-06 | 1.44176E-06 | 0.008388168  | 0.001665235     | 0.001621982 |

Sheet1

| Rickettsiales | Sphingomonas | pca1_L3     | others | At12OctB3               | BME43       |
|---------------|--------------|-------------|--------|-------------------------|-------------|
| 0.001505206   | 0.003678519  | 0.045387348 | 2017_6 | 0 0.000001965           | 0           |
| 0.001943218   | 0.005069829  | -0.11849026 | 2017_8 | 0 2.04354E-05           | 0           |
| 0.001477118   | 0.014020742  | -0.1367811  | 2017_2 | 0 0.000124312           | 2.46796E-05 |
| 0.001633521   | 0.004771388  | -0.13681121 | 2016_4 | 0 1.61468E-05           | 1.61468E-05 |
| 0.003427216   | 0.005852758  | -0.14855416 | 2016_2 | 1.03479E-06 7.24351E-06 | 3.10436E-06 |
| 0.000598066   | 0.004014674  | -0.1492771  | 2016_3 | 0 2.03597E-05           | 7.63488E-06 |
| 0.00233931    | 0.004906476  | -0.15044777 | 2017_7 | 0 2.07141E-05           | 2.76188E-06 |
| 0.001200597   | 0.007753338  | -0.16236329 | 2017_4 | 0 3.40756E-06           | 0           |
| 0.001137273   | 0.009613681  | -0.17285389 | 2017_1 | 0 5.49702E-05           | 1.22156E-06 |
| 0.001735324   | 0.007826528  | -0.18461491 | 2017_5 | 0 1.17139E-05           | 5.02022E-06 |
| 0.000959261   | 0.0073854    | -0.1880056  | 2016_1 | 2.80281E-06 1.47147E-05 | 2.10211E-06 |
| 0.000945796   | 0.014322459  | -0.22579627 | 2017_3 | 0 0.001128899           | 0           |

Sheet1

| Bacteroidia | Cytophagia  | Flavobacteriia | Sphingobacteriia | VC2_1_Bac22 | [Rhodothermi] | [Saprospirae] |
|-------------|-------------|----------------|------------------|-------------|---------------|---------------|
| 1.96502E-05 | 0.008428956 | 0.006184903    | 0.011516004      | 1.37551E-05 | 0             | 0.038720732   |
| 6.03772E-05 | 0.008529908 | 0.00227297     | 0.003933808      | 8.35992E-06 | 0             | 0.019114498   |
| 1.91952E-05 | 0.019327765 | 0.0059167      | 0.020168699      | 0.00012157  | 1.82812E-06   | 0.071416297   |
| 0.000018838 | 0.011273177 | 0.003622272    | 0.002427407      | 1.07646E-05 | 0             | 0.028609489   |
| 0.000028974 | 0.018863141 | 0.004221933    | 0.004059471      | 3.00088E-05 | 0             | 0.025614095   |
| 4.58093E-05 | 0.006750506 | 0.003414064    | 0.004788342      | 0           | 0             | 0.023436536   |
| 0.000229236 | 0.031113934 | 0.008600487    | 0.010943941      | 2.48569E-05 | 0             | 0.070220743   |
| 4.08907E-05 | 0.027161672 | 0.006188131    | 0.016742485      | 2.61246E-05 | 1.13585E-06   | 0.061747284   |
| 2.32097E-05 | 0.028732326 | 0.006666056    | 0.010611696      | 9.40602E-05 | 0             | 0.061638723   |
| 1.17139E-05 | 0.024609134 | 0.004365921    | 0.008199698      | 0.000036815 | 1.67341E-06   | 0.036507063   |
| 2.52253E-05 | 0.025605056 | 0.006275488    | 0.009376796      | 4.13414E-05 | 0             | 0.023455302   |
| 0.002188594 | 0.009222948 | 0.027155578    | 0.029762282      | 0.000005767 | 5.91122E-05   | 0.287965905   |

Sheet1

| pca1_L2     | Sample ID | k__Bacteria;p | k__Bacteria;p | k__Bacteria;p | k__Bacteria;p |
|-------------|-----------|---------------|---------------|---------------|---------------|
| -0.17109995 | 2017_8    | 0             | 2.04354E-05   | 0             | 6.03772E-05   |
| -0.1440242  | 2016_4    | 0             | 1.61468E-05   | 1.61468E-05   | 0.000018838   |
| -0.12620985 | 2017_5    | 0             | 1.17139E-05   | 5.02022E-06   | 1.17139E-05   |
| -0.11413677 | 2017_6    | 0             | 0.000001965   | 0             | 1.96502E-05   |
| -0.10792866 | 2016_2    | 1.03479E-06   | 7.24351E-06   | 3.10436E-06   | 0.000028974   |
| -0.10066544 | 2016_1    | 2.80281E-06   | 1.47147E-05   | 2.10211E-06   | 2.52253E-05   |
| -0.09318462 | 2016_3    | 0             | 2.03597E-05   | 7.63488E-06   | 4.58093E-05   |
| -0.08310558 | 2017_7    | 0             | 2.07141E-05   | 2.76188E-06   | 0.000229236   |
| -0.07660038 | 2017_4    | 0             | 3.40756E-06   | 0             | 4.08907E-05   |
| -0.07248727 | 2017_1    | 0             | 5.49702E-05   | 1.22156E-06   | 2.32097E-05   |
| -0.0724556  | 2017_2    | 0             | 0.000124312   | 2.46796E-05   | 1.91952E-05   |
| 0.14584106  | 2017_3    | 0             | 0.001128899   | 0             | 0.002188594   |

Sheet1

| k__Bacteria;p | k__Bacteria;p | k__Bacteria;p | k__Bacteria;p | k__Bacteria;p | k__Bacteria;p | k__Bacteroidete |
|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|
| 0.008529908   | 0.00227297    | 0.003933808   | 8.35992E-06   | 0             | 0.019114498   |                 |
| 0.011273177   | 0.003622272   | 0.002427407   | 1.07646E-05   | 0             | 0.028609489   |                 |
| 0.024609134   | 0.004365921   | 0.008199698   | 0.000036815   | 1.67341E-06   | 0.036507063   |                 |
| 0.008428956   | 0.006184903   | 0.011516004   | 1.37551E-05   | 0             | 0.038720732   |                 |
| 0.018863141   | 0.004221933   | 0.004059471   | 3.00088E-05   | 0             | 0.025614095   |                 |
| 0.025605056   | 0.006275488   | 0.009376796   | 4.13414E-05   | 0             | 0.023455302   |                 |
| 0.006750506   | 0.003414064   | 0.004788342   | 0             | 0             | 0.023436536   |                 |
| 0.031113934   | 0.008600487   | 0.010943941   | 2.48569E-05   | 0             | 0.070220743   |                 |
| 0.027161672   | 0.006188131   | 0.016742485   | 2.61246E-05   | 1.13585E-06   | 0.061747284   |                 |
| 0.028732326   | 0.006666056   | 0.010611696   | 9.40602E-05   | 0             | 0.061638723   |                 |
| 0.019327765   | 0.0059167     | 0.020168699   | 0.00012157    | 1.82812E-06   | 0.071416297   |                 |
| 0.009222948   | 0.027155578   | 0.029762282   | 0.000005767   | 5.91122E-05   | 0.287965905   |                 |

æ;ç\_\_[Saprospirae]