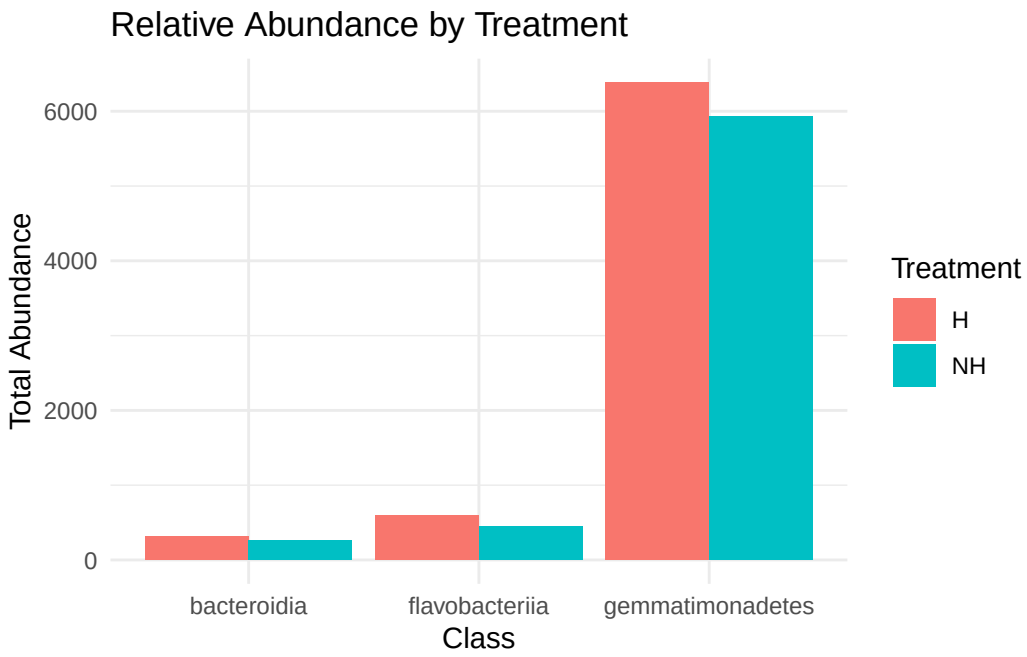
Module Input Document

```
[1] "HerbicideH_NH.rds"
```

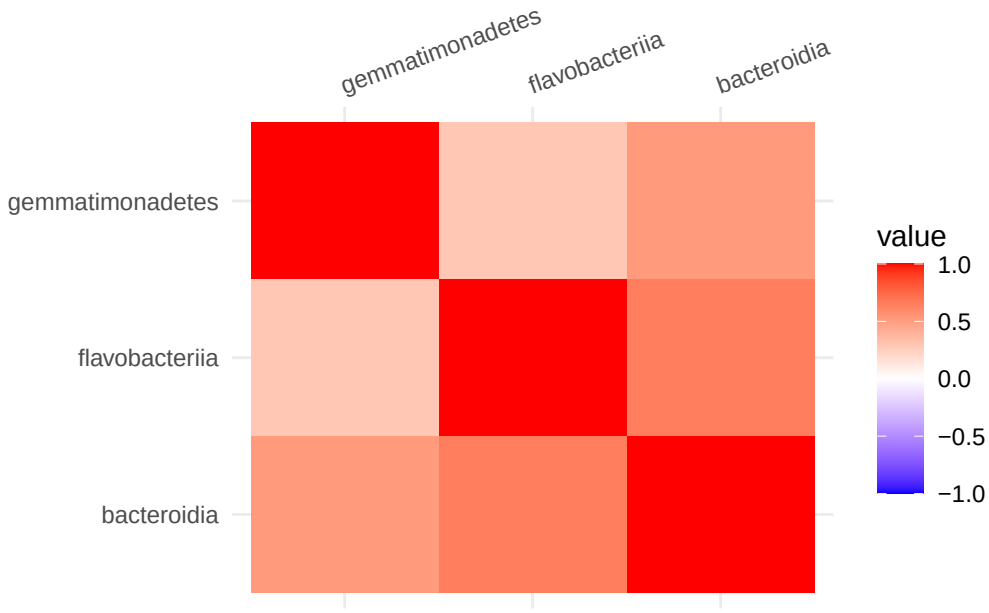
```
[1] "Herbicide"
```

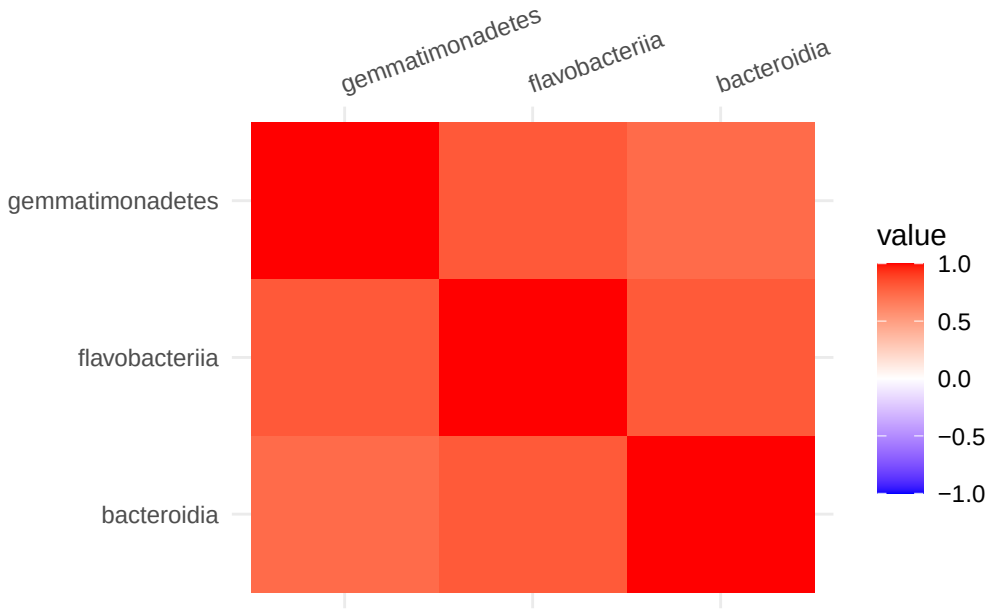
```
[1] "11"
```

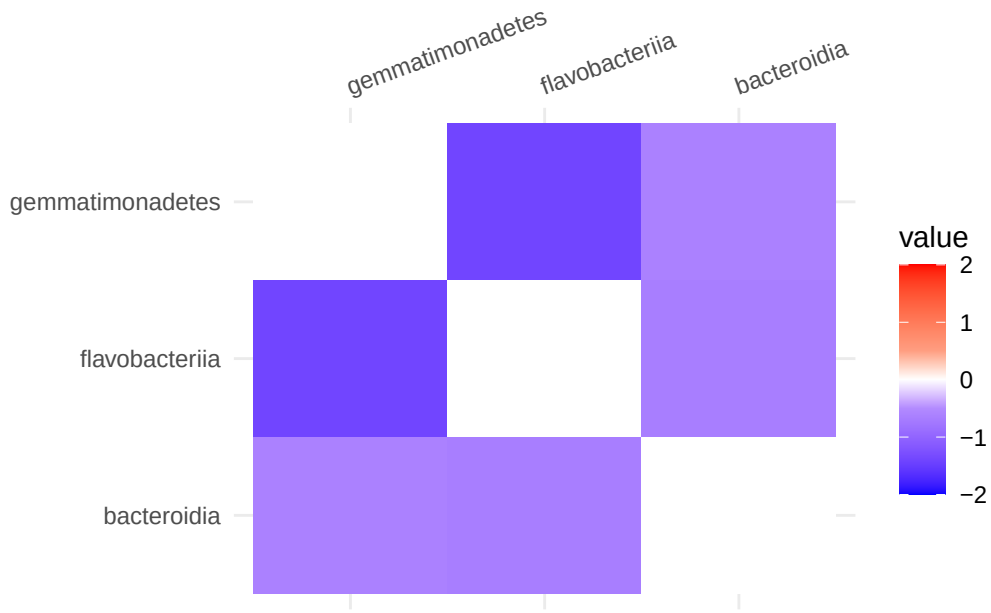
Ploting Mean Differences



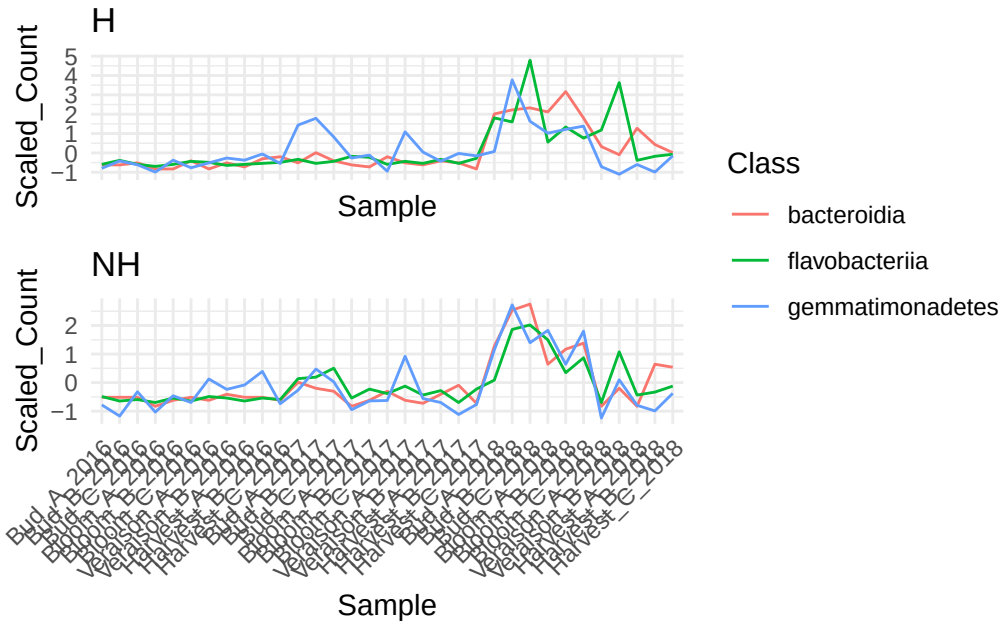
Correlation Matrices

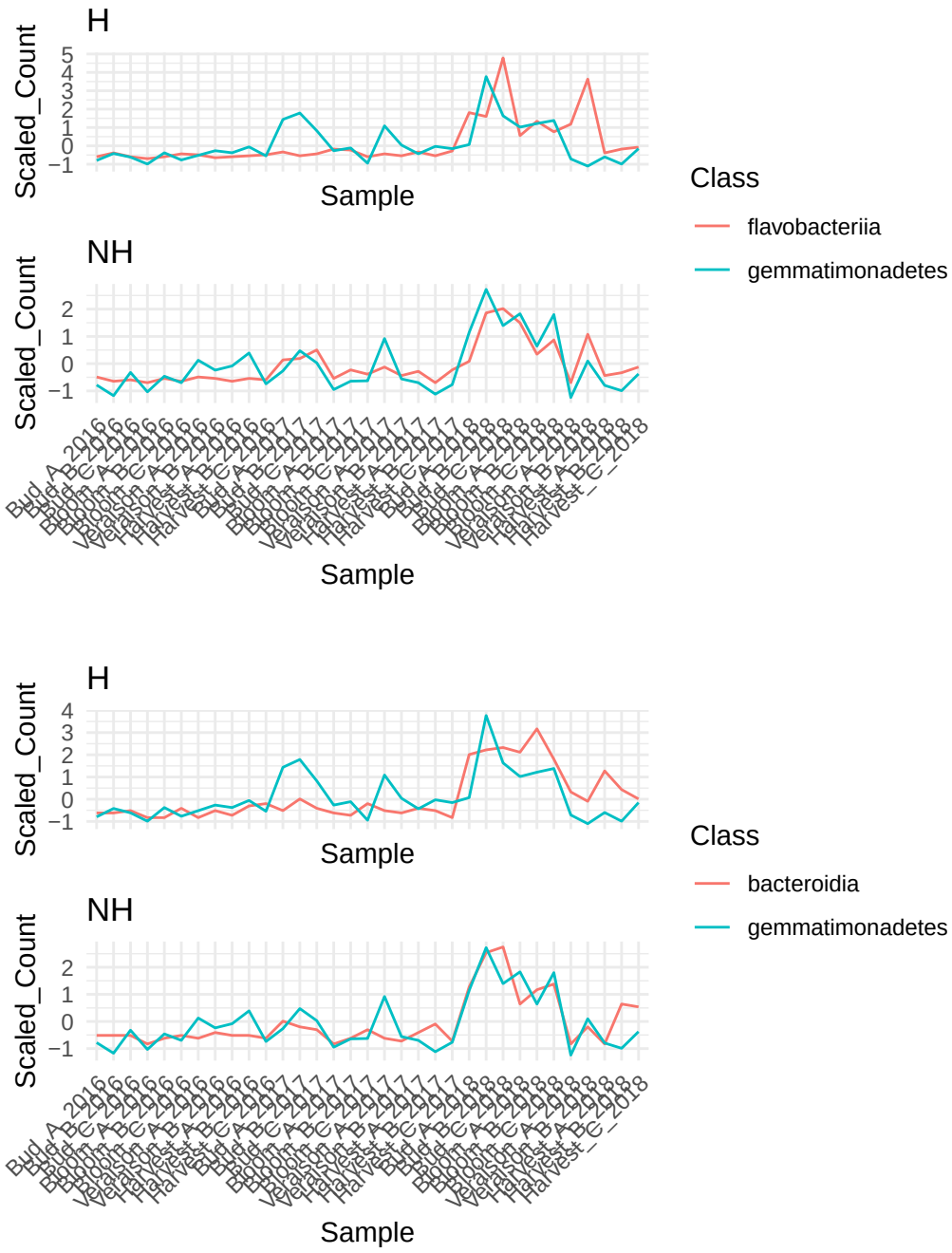




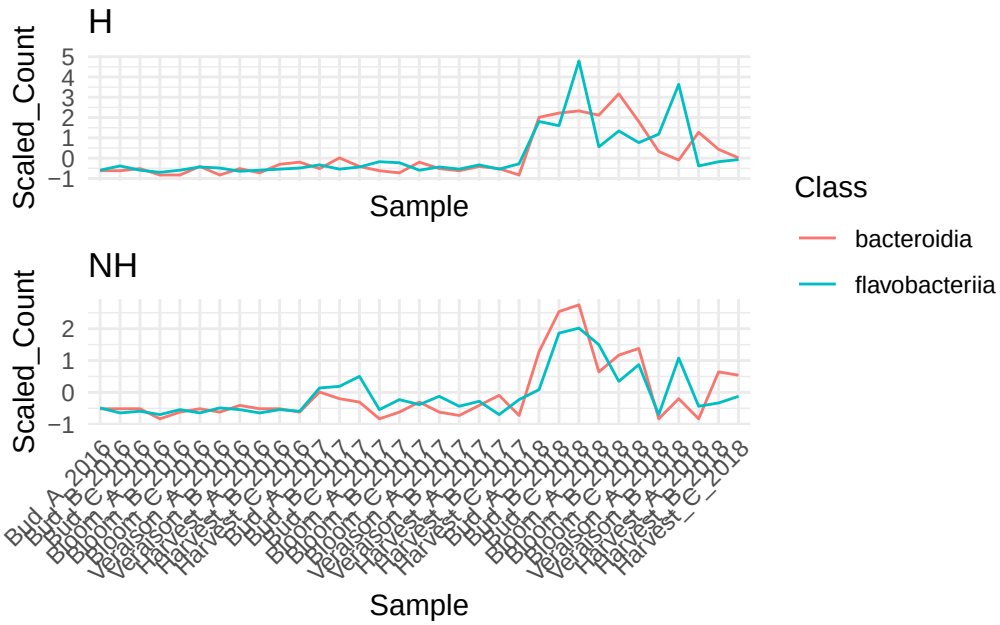


Abundance Over Time




H
Scaled_Count
5
4
3
2
1
0
−1
Sample
NH
Scaled_Count
2
1
0
−1
Sample
Class
flavobacteriia
gemmatimonadetes

H
Scaled_Count
4
3
2
1
0
−1
Sample
NH
Scaled_Count
2
1
0
−1
Sample
Class
bacteroidia
gemmatimonadetes



Module Function

```
FUNCTIONS BY CLASS:


  - gemmatimonadetes:
      * aerobic_chemoheterotrophy
  - flavobacteriia:
      * nitrate_denitrification
      * chitinolysis
      * nitrate_ammonification
      * nitrite_respiration
      * xylanolysis
      * fermentation
      * aerobic_chemoheterotrophy
      * nitrate_respiration
      * nitrate_reduction
      * fumarate_respiration
      * ureolysis
      * human_gut
      * human_pathogens_nosocomia
      * human_pathogens_all
```

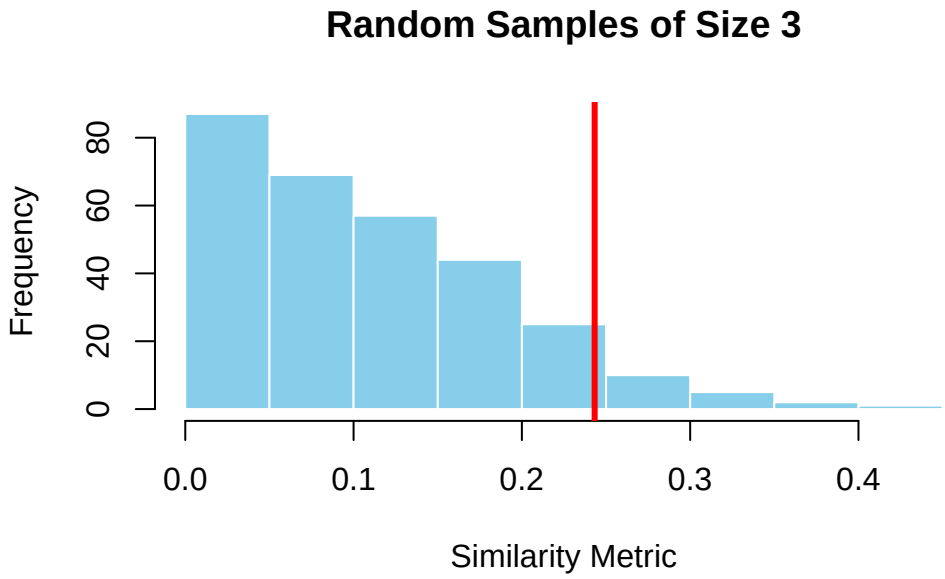
```
      * intracellular_parasites
      * aromatic_hydrocarbon_degradation
      * aromatic_compound_degradation
  - bacteroidia:
      * fermentation
      * cellulolysis
      * xylanolysis
      * human_pathogens_diarrhea
      * human_pathogens_all
      * human_gut
      * ureolysis
      * aerobic_chemoheterotrophy
      * animal_parasites_or_symbionts
      * nitrate_ammonification


FUNCTION COUNTS:

  aerobic_chemoheterotrophy: 3
  animal_parasites_or_symbionts: 1
  aromatic_compound_degradation: 1
  aromatic_hydrocarbon_degradation: 1
  cellulolysis: 1
  chitinolysis: 1
  fermentation: 2
  fumarate_respiration: 1
  human_gut: 2
  human_pathogens_all: 2
  human_pathogens_diarrhea: 1
  human_pathogens_nosocomia: 1
  intracellular_parasites: 1
  nitrate_ammonification: 2
  nitrate_denitrification: 1
  nitrate_reduction: 1
  nitrate_respiration: 1
  nitrite_respiration: 1
  ureolysis: 2
  xylanolysis: 2


SHARED PERCENTAGE:
```

```
  35%
```

```
SIMILARITY METRIC:
```

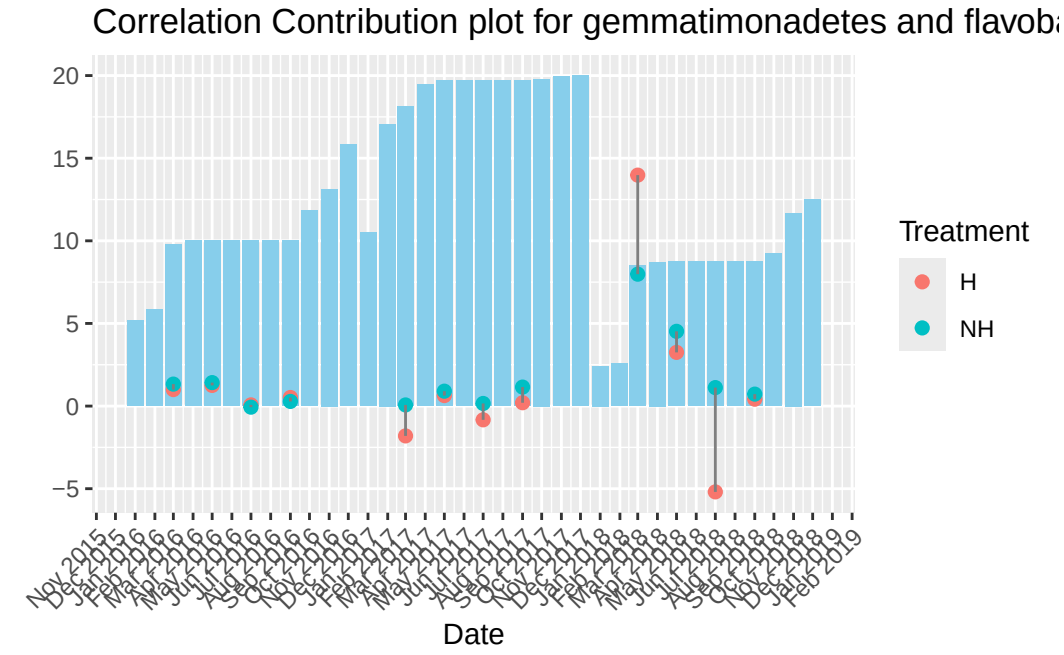
```
  24.3243243243243%
```

Random Sampling

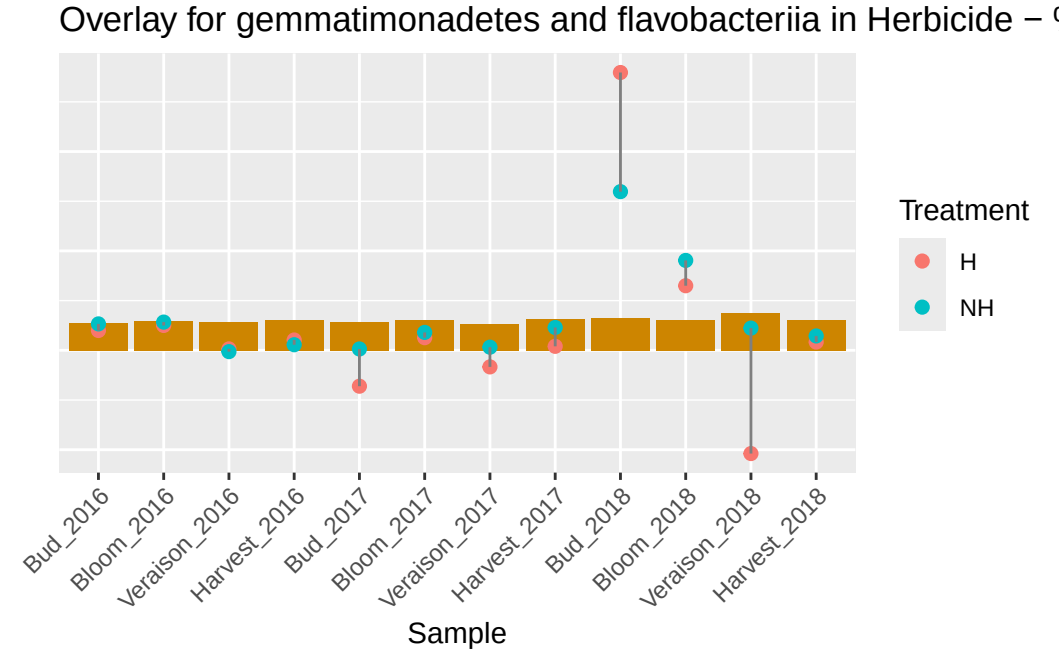



```
P_VALUE:
 0.08
```

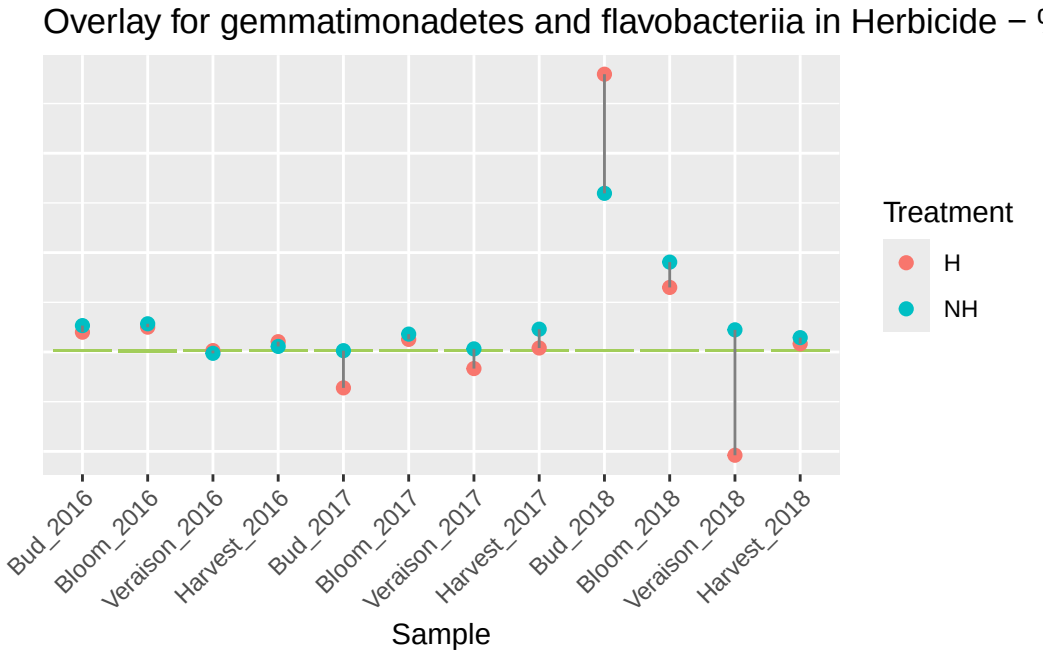
Edaphic Data



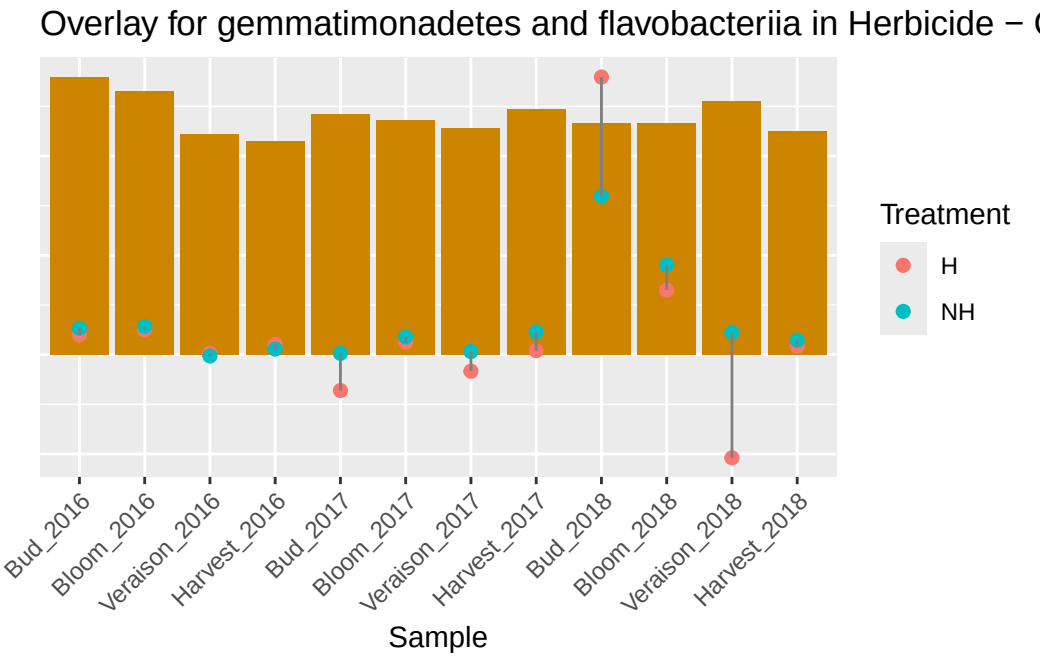

```
$plot_percent_C
```

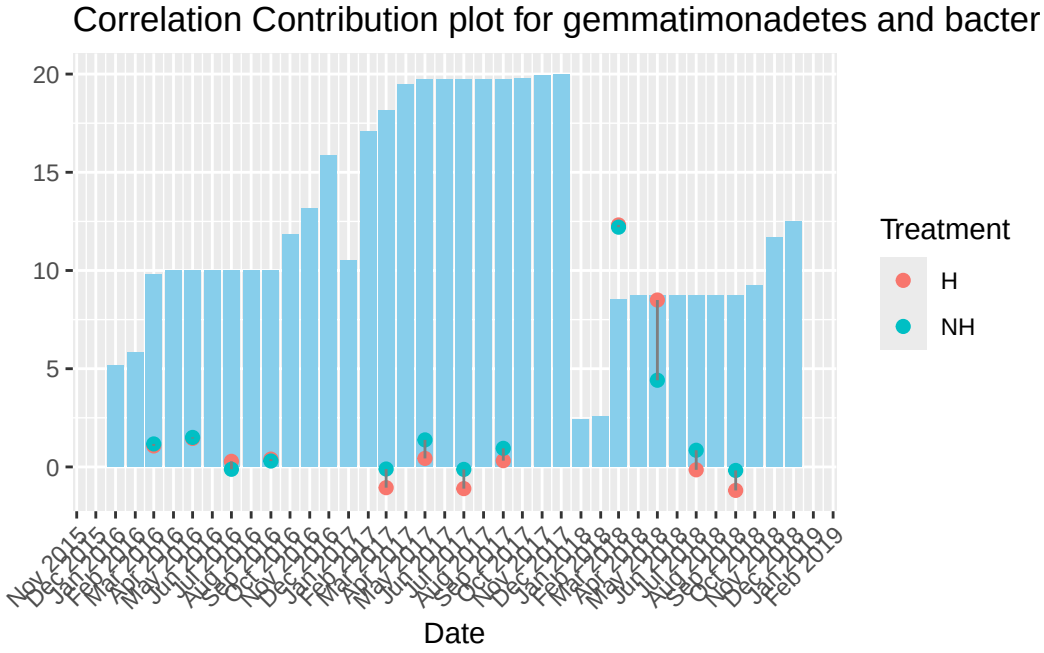


```
$plot_percent_N
```

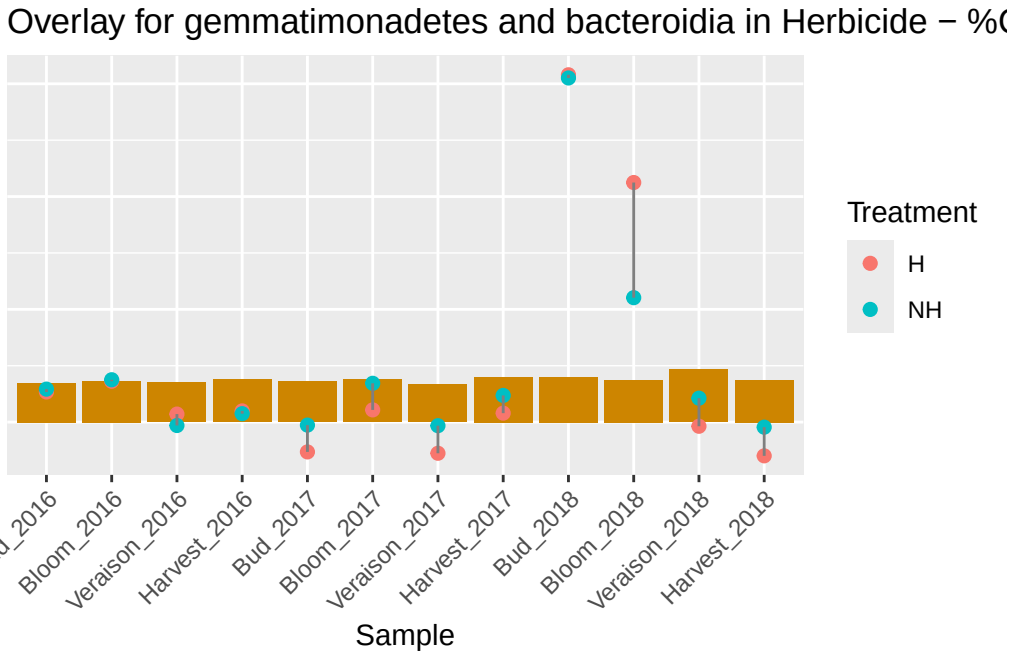



```
$plot_CN_ratio
```

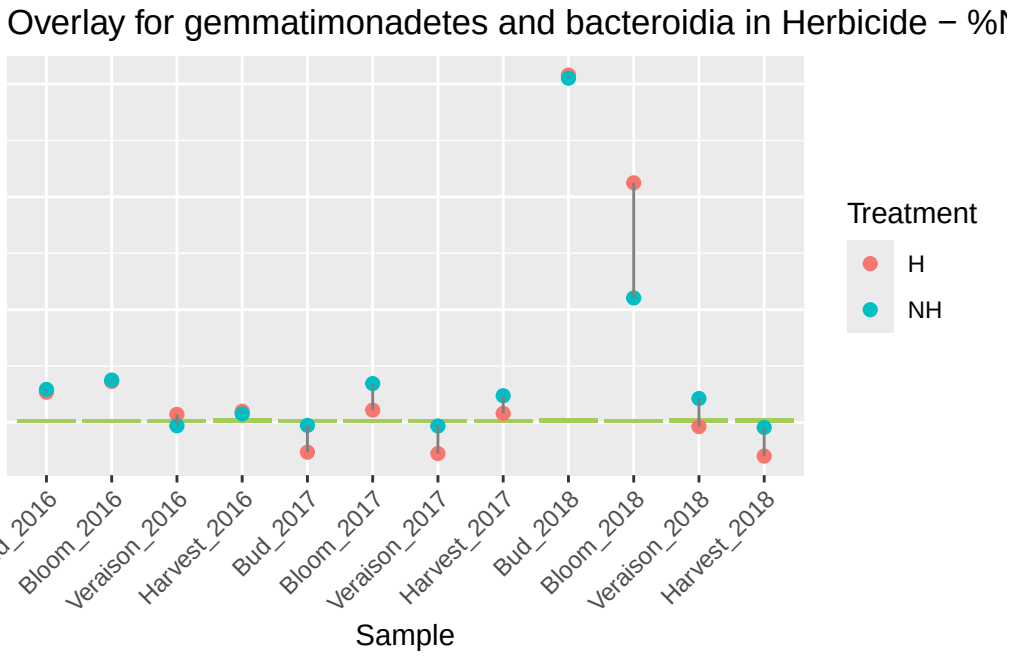




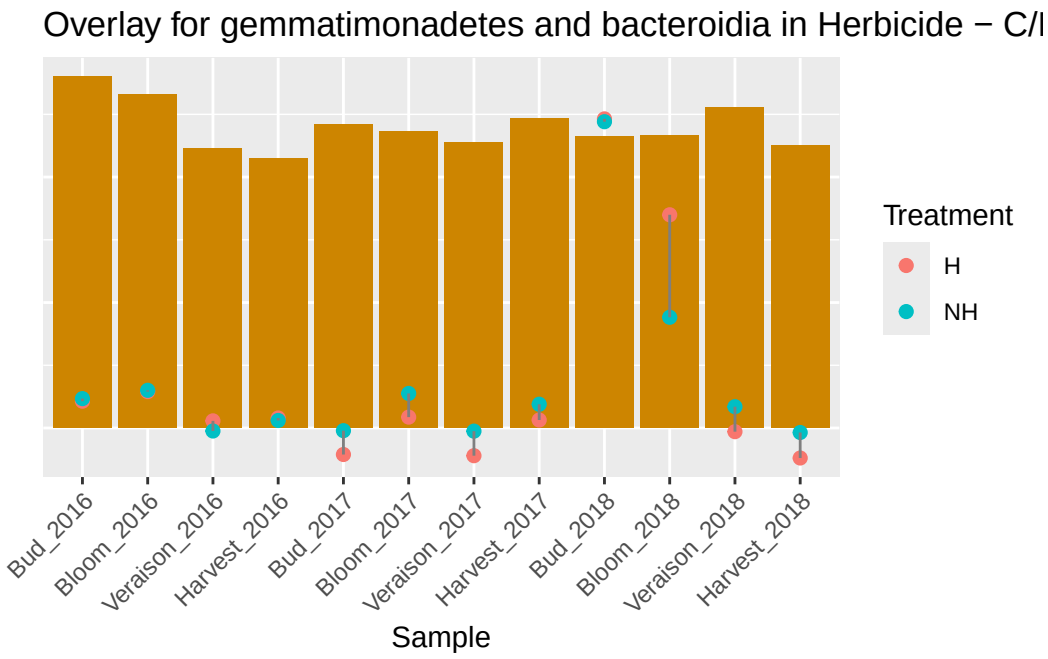

```
$plot_percent_C
```

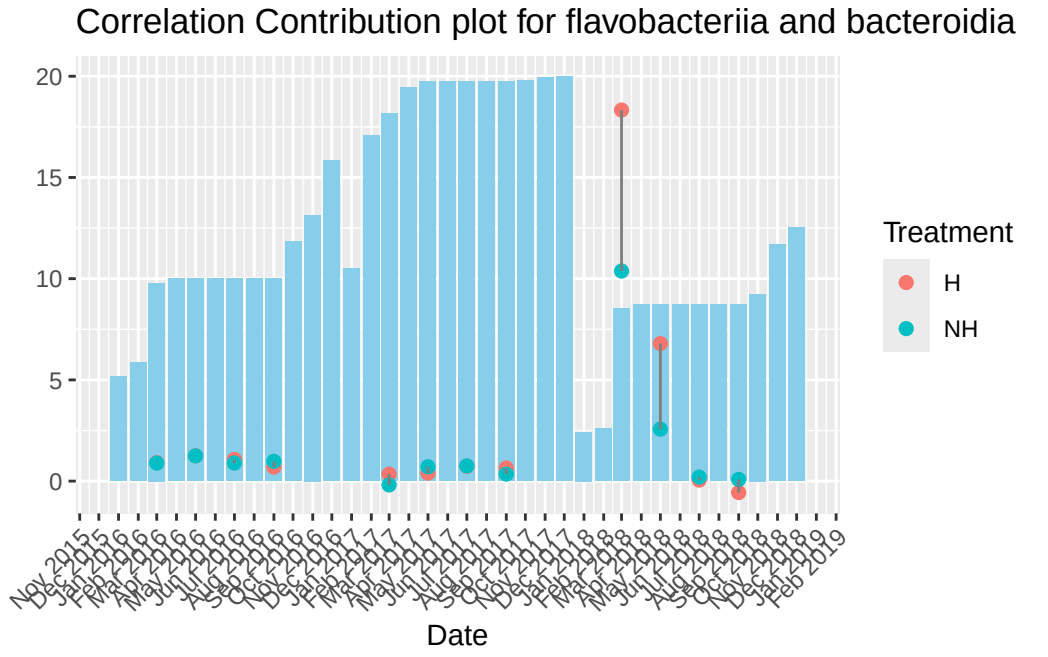



```
$plot_percent_N
```

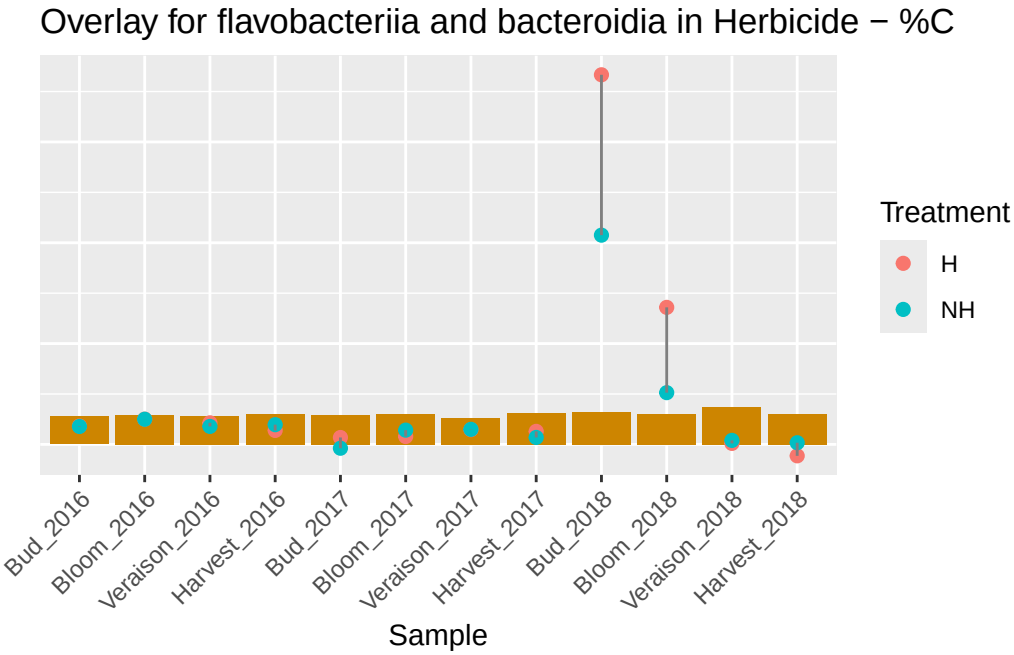


```
$plot_CN_ratio
```

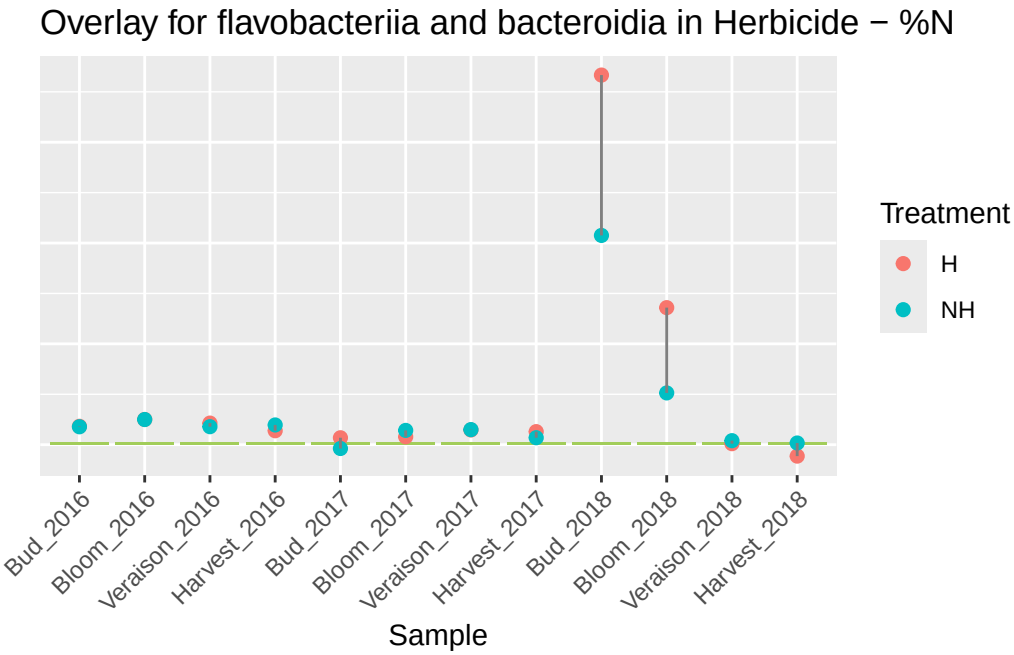





```
$plot_percent_C
```




```
$plot_percent_N
```



```
$plot_CN_ratio
```