

# Relative Abundance Analydid

Cyrus A. Mallon

2022-05-27

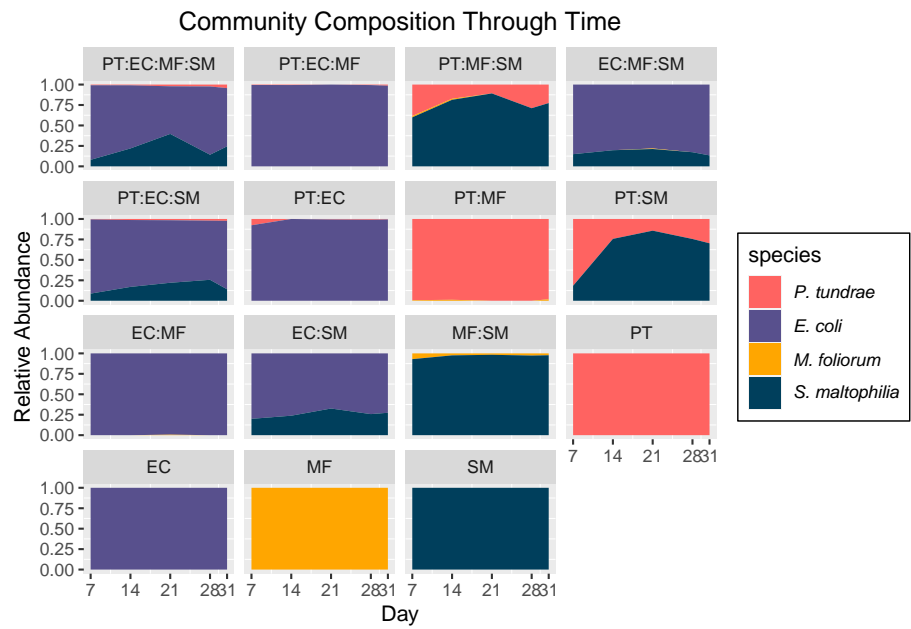
## Load Data

#Data Prep

```
## # A tibble: 213 x 9
##   sample      PT      EC      MF      SM replicate Time Community SpRich
##   <fct>    <dbl>    <dbl>    <dbl>    <dbl> <fct>    <dbl> <fct>    <dbl>
## 1 A_R1_D14 0.999 0.000354 0.0000123 0.000300 Rep_1      14 PT      1
## 2 A_R1_D21 0.999 0.000486 0.000011 0.000477 Rep_1      21 PT      1
## 3 A_R1_D28 0.999 0.000404 0.0000375 0.000270 Rep_1      28 PT      1
## 4 A_R1_D31 0.999 0.000413 0.0000175 0.000510 Rep_1      31 PT      1
## 5 A_R1_D7  1.00 0.000218 0.0000155 0.000124 Rep_1       7 PT      1
## 6 A_R2_D14 0.999 0.000348 0.0000154 0.000336 Rep_2      14 PT      1
## 7 A_R2_D21 0.999 0.000341 0.000012 0.000327 Rep_2      21 PT      1
## 8 A_R2_D28 0.999 0.000421 0.0000116 0.000278 Rep_2      28 PT      1
```

```
## 9 A_R2_D31 0.999 0.000463 0.0000159 0.000409 Rep_2 31 PT 1
## 10 A_R2_D7 1.00 0.0000404 0.000216 0.000152 Rep_2 7 PT 1
## # ... with 203 more rows
```

# Plot Data



Community	n_replicates
PT:EC:MF:SM	3
PT:EC:MF	1
PT:MF:SM	3
EC:MF:SM	3
PT:EC:SM	3
PT:EC	1
PT:MF	3
PT:SM	3
EC:MF	2
EC:SM	3
MF:SM	2
PT	3
EC	3
MF	3
SM	3

**Table Replicates**

Table Avg Relative Abundance of Species Across  
Entire Experiment, per time point

Table Avg Relative Abundance of Species Across  
Entire Experiment, per all time points

richness	community	replicates	PT mean	PT sd	EC mean	EC sd	MF mean	MF sd	SM mean	SM sd
1	PT	3	99.93	0.02	0.00	0.00	0	0	0.00	0.00
1	EC	3	0	0	99.95	0.03	0	0	0.00	0.00
1	MF	3	0	0	0.00	0.00	99.95	0.02	0.00	0.00
1	SM	3	0	0	0.00	0.00	0	0	99.96	0.00
2	PT:EC	1	1.99	3.22	97.91	3.16	0	0	0.00	0.00
2	PT:MF	3	99.04	1.61	0.05	0.19	0.76	1.58	0.00	0.00
2	PT:SM	3	34.92	25.8	0.00	0.00	0	0	65.06	0.26
2	EC:MF	2	0	0	99.81	0.35	0.11	0.36	0.00	0.00
2	EC:SM	3	0	0	74.10	14.76	0	0	25.90	0.15
2	MF:SM	2	0	0	0.00	0.00	3.25	2.19	96.72	0.02
3	PT:EC:MF	1	0.63	0.51	99.18	0.47	0	0	0.00	0.00
3	PT:MF:SM	3	23.58	14.97	0.00	0.00	0.73	1	75.57	0.15
3	EC:MF:SM	3	0	0	82.41	7.95	0.22	0.4	17.26	0.08
3	PT:EC:SM	3	1.47	1.39	80.98	14.56	0	0	17.47	0.14
4	PT:EC:MF:SM	3	2.08	2.49	76.22	20.39	0	0	21.62	0.19