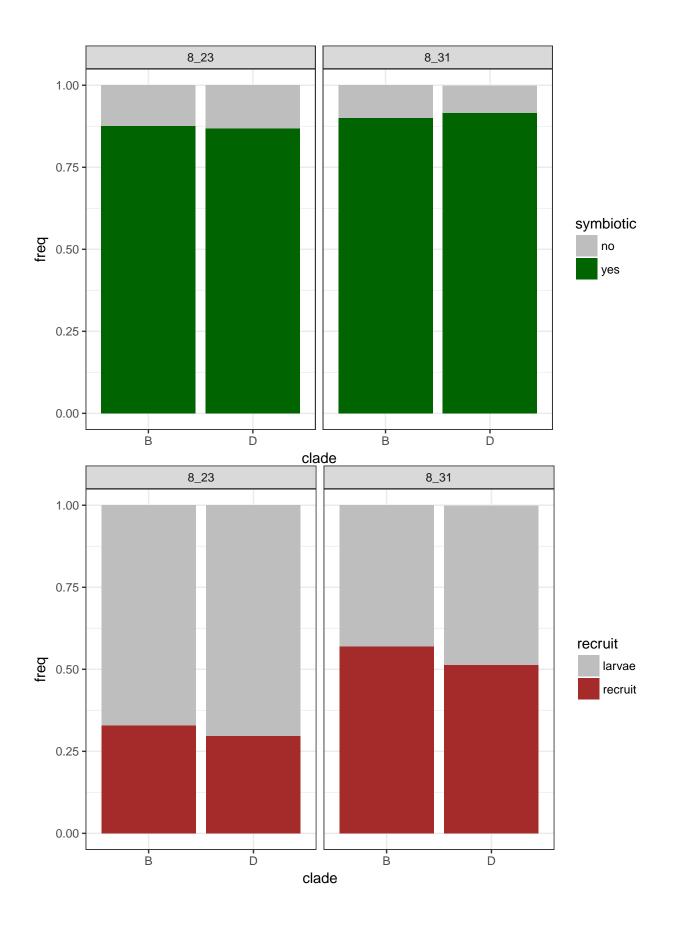
uptake_exp

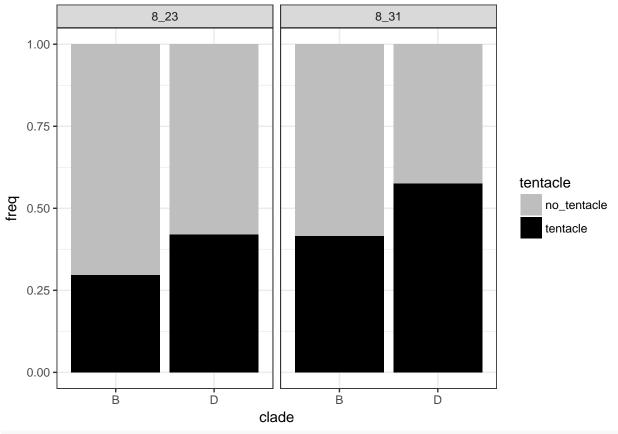
Rachel Wright 10/22/2018

head(d)

```
## # A tibble: 6 x 11
## clade plate well type count sym swim day tentacle
                                                     symbiotic
   <chr> <chr> <int> <chr> <int> <chr> <chr> <chr> <fct>
                                                     <fct>
## 1 D
      p1 1 slt 3 s
                               1 8 23 tentacle
                                                     yes
        p1
## 2 D
               1 sl
                          4 s
                                     8_23 no_tentacle yes
                                 1
                              1
                                    8_23 no_tentacle no
                          3 a
                1 al
## 3 D
      p1
                         1 s s 8_23 no_tentacle yes
## 4 D
      p1
               2 ss
## 5 D
      p1
               2 slt
                           4 s 1
                                     8_23 tentacle
      p1
## 6 D
                 2 sl
                           4 s
                                     8_23 no_tentacle yes
                                1
## # ... with 1 more variable: recruit <fct>
d %>% ungroup() %>% group_by(day, clade,symbiotic) %>%
summarize(sum(count))
```

```
## # A tibble: 9 x 4
## # Groups: day, clade [?]
    day clade symbiotic `sum(count)`
   <chr> <chr> <fct>
                                <int>
## 1 8_23 B
                                  49
## 2 8_23 B
                                 346
               yes
## 3 8_23 D
                                  45
               no
## 4 8_23 D
             yes
                                 295
## 5 8_31 B
             no
                                  20
## 6 8 31 B
                                 180
              yes
## 7 8_31 D
               no
                                 15
## 8 8_31 D
                                 164
               yes
## 9 8_31 NoSym no
                                 163
```





summary(mcmcSymbiotic)

```
##
##
  Iterations = 3001:12991
## Thinning interval = 10
## Sample size = 1000
##
## DIC: 306.5741
##
##
  G-structure: ~plate
##
        post.mean 1-95% CI u-95% CI eff.samp
##
## plate 0.386 5.695e-17 1.526 79.53
##
##
   R-structure: ~units
##
        post.mean 1-95% CI u-95% CI eff.samp
##
## units 1.393 0.6831
                             2.238
##
##
  Location effects: symbiotic_count ~ clade * day
##
                 post.mean 1-95% CI u-95% CI eff.samp pMCMC
##
## (Intercept)
                  2.66795 1.96568 3.55106
                                             1095.1 < 0.001 ***
                                             1000.0 0.886
## cladeD
                  -0.05927 -0.94323 0.84665
## day8_31
                 -0.56422 -1.38773 0.39873
                                             1000.0 0.234
## cladeD:day8_31 0.18714 -1.16861 1.54020
                                              795.8 0.774
## ---
```

```
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
summary(mcmcRecruit)
##
   Iterations = 3001:12991
##
   Thinning interval = 10
## Sample size = 1000
##
## DIC: 334.4549
##
## G-structure: ~plate
##
##
        post.mean 1-95% CI u-95% CI eff.samp
## plate
            1.011 0.1597
                              2.562
                                        1000
##
##
   R-structure: ~units
##
        post.mean 1-95% CI u-95% CI eff.samp
##
         0.2444 0.1189
                             0.3932
## units
                                      865.7
  Location effects: recruit_count ~ clade * day
##
##
                 post.mean 1-95% CI u-95% CI eff.samp pMCMC
## (Intercept)
                    3.0324
                            2.2739
                                      3.8568
                                                1000 < 0.001 ***
                                                1000 0.222
## cladeD
                   -0.2711 -0.6737
                                      0.1681
## day8_31
                   -0.6878 -1.0918 -0.2522
                                                1000 0.006 **
## cladeD:day8_31
                    0.1654 -0.4187 0.7709
                                                1000 0.600
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
summary(mcmcTentacle)
##
   Iterations = 3001:12991
##
   Thinning interval = 10
## Sample size = 1000
##
## DIC: 322.3711
##
## G-structure: ~plate
##
        post.mean 1-95% CI u-95% CI eff.samp
##
## plate
           0.7512 0.1136
                             1.877
                                        1000
##
##
   R-structure: ~units
##
        post.mean 1-95% CI u-95% CI eff.samp
##
         0.1608 0.07458
                             0.2644
                                      753.3
## units
   Location effects: tentacle_count ~ clade * day
##
##
                 post.mean 1-95% CI u-95% CI eff.samp pMCMC
## (Intercept)
                   3.10855 2.41597 3.81769
                                                1000 < 0.001 ***
                                                1000 0.376
                  -0.15743 -0.51574 0.18780
```

cladeD