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Week 6 Reading Questions

- 1) The baseline scenario in the seed predation rates is that there isn't a noticeable difference between predation rates in the two different seed types. The null hypothesis is that there is a difference in seed predation rates.
- 2)

R Global Environment	
values	
pol_n_no_predation	184
pol_n_predation	26
pol_n_total	210
pol_predation_rate	0.123809523809524
psd_n_no_predation	706
psd_n_predation	25
psd_n_total	731
psd_predation_rate	0.0341997264021888

```
rm(list = ls())
```

```
pol_n_predation = 26
```

```
pol_n_no_predation = 184
```

```
pol_n_total = 210
```

```
pol_predation_rate = pol_n_predation/pol_n_total
```

```
print(
```

```
  paste0(
```

```
    "The seed predation rate for Polyscias fulva is: ",
```

```
    round(pol_predation_rate, digits = 3)))
```

```
psd_n_predation = 25
```

```
psd_n_no_predation = 706
```

```
psd_n_total = 731
```

```
psd_predation_rate = psd_n_predation/psd_n_total
```

```
print(
```

```
  paste0(
```

"The seed predation rate for Pseudospondias microcarpa is: ",

round(psd_predation_rate, digits = 3)))

3)

species	Any taken	None taken	N	Predation rate
Polyscias fulva (pol)	26	184	210	0.124
Pseudospondias microcarpa (psd)	25	706	731	0.034

4) The ratio of seed predation proportions is 3.62

rm(list = ls())

pol_n_predation = 26

pol_n_no_predation = 184

pol_n_total = 210

pol_predation_rate = pol_n_predation/pol_n_total

print(

paste0(

"The seed predation rate for Polyscias fulva is: ",

round(pol_predation_rate, digits = 3)))

psd_n_predation = 25

psd_n_no_predation = 706

psd_n_total = 731

psd_predation_rate = psd_n_predation/psd_n_total

print(

paste0(

"The seed predation rate for Pseudospondias microcarpa is: ",

round(psd_predation_rate, digits = 3)))

ratio_seed_predation_prop = pol_predation_rate/psd_predation_rate

print(

paste0(

```
"The ratio of seed predation proportion is: ",  
round(ratio_seed_predation_prop, digits = 3)))
```