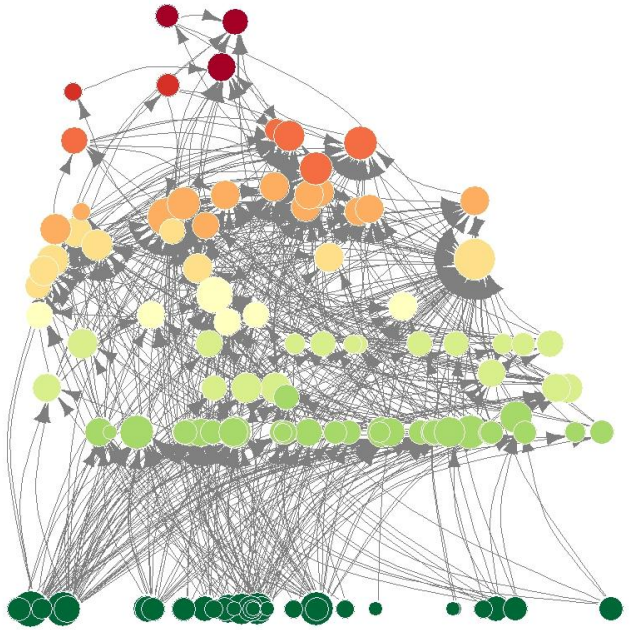
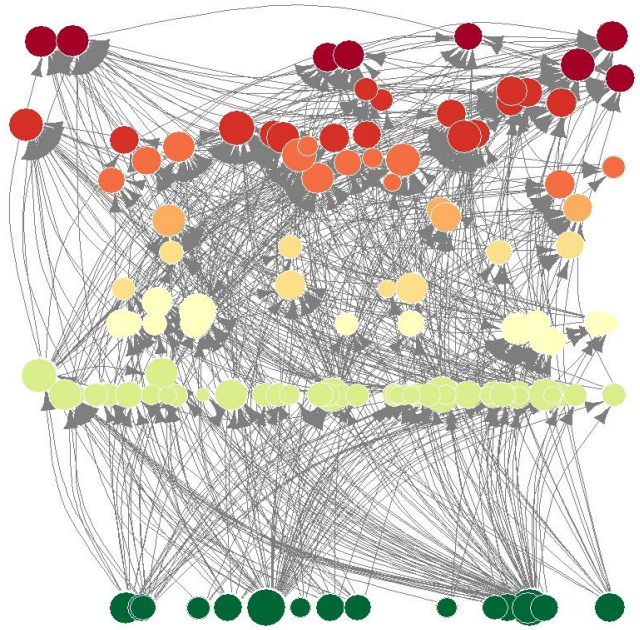
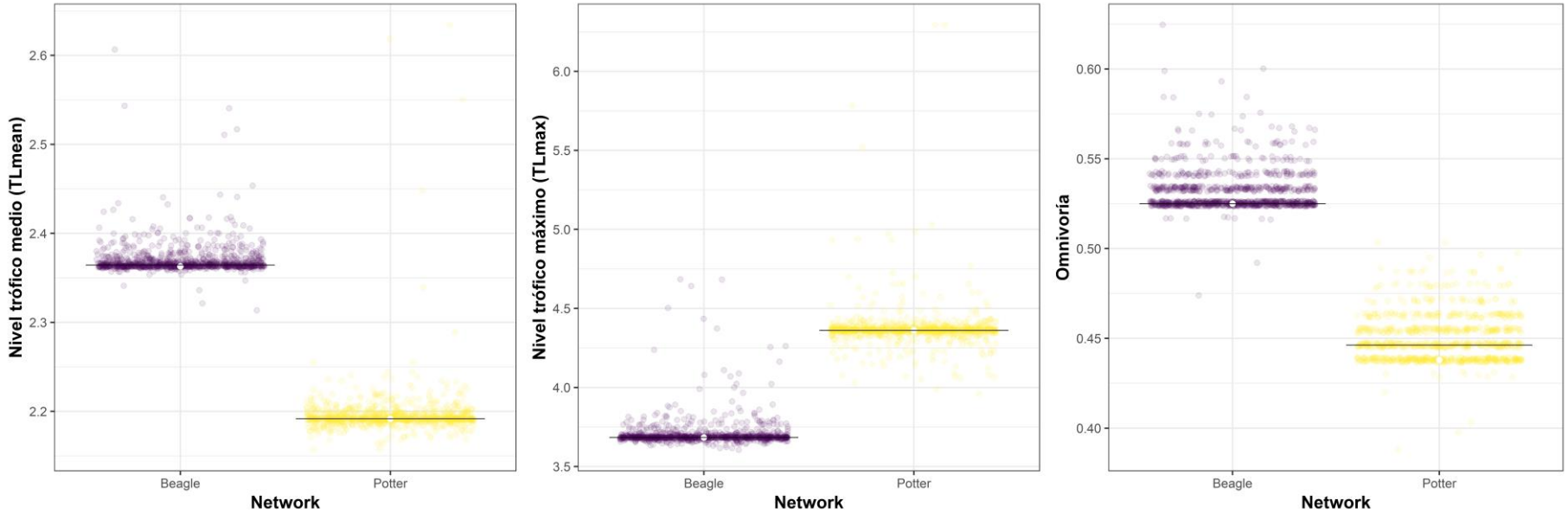
# Parámetros topológicos



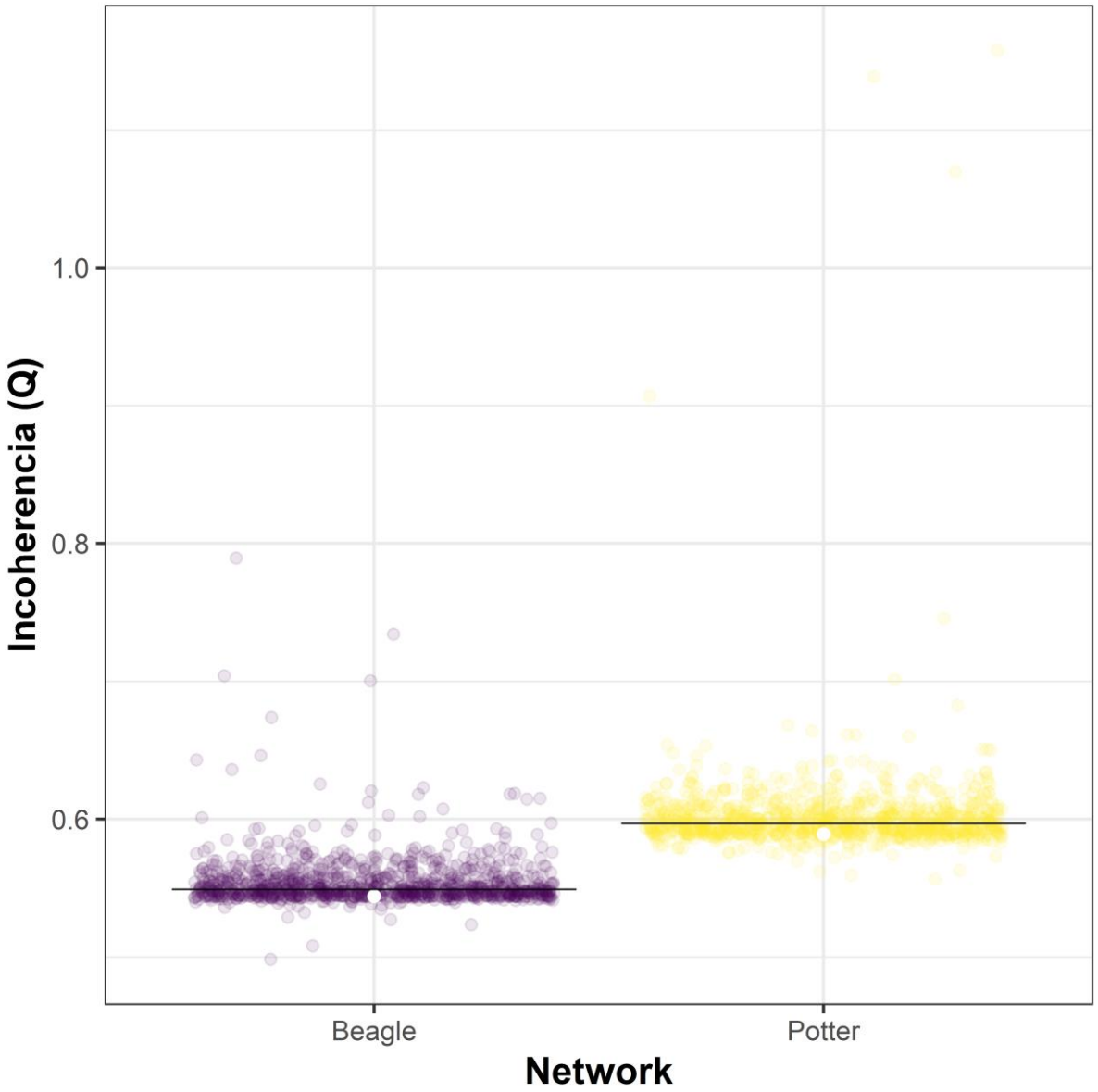
| | POTTER | BEAGLE |
|---|---|---|
| S | 121 | 120 |
| L | 564 | 673 |
| L/S | 4,66 | 5,61 |
| C | 0,04 | 0,05 |
| Basales | 27% | 13% |
| Intermedias | 64% | 73% |
| Tope | 9% | 13% |

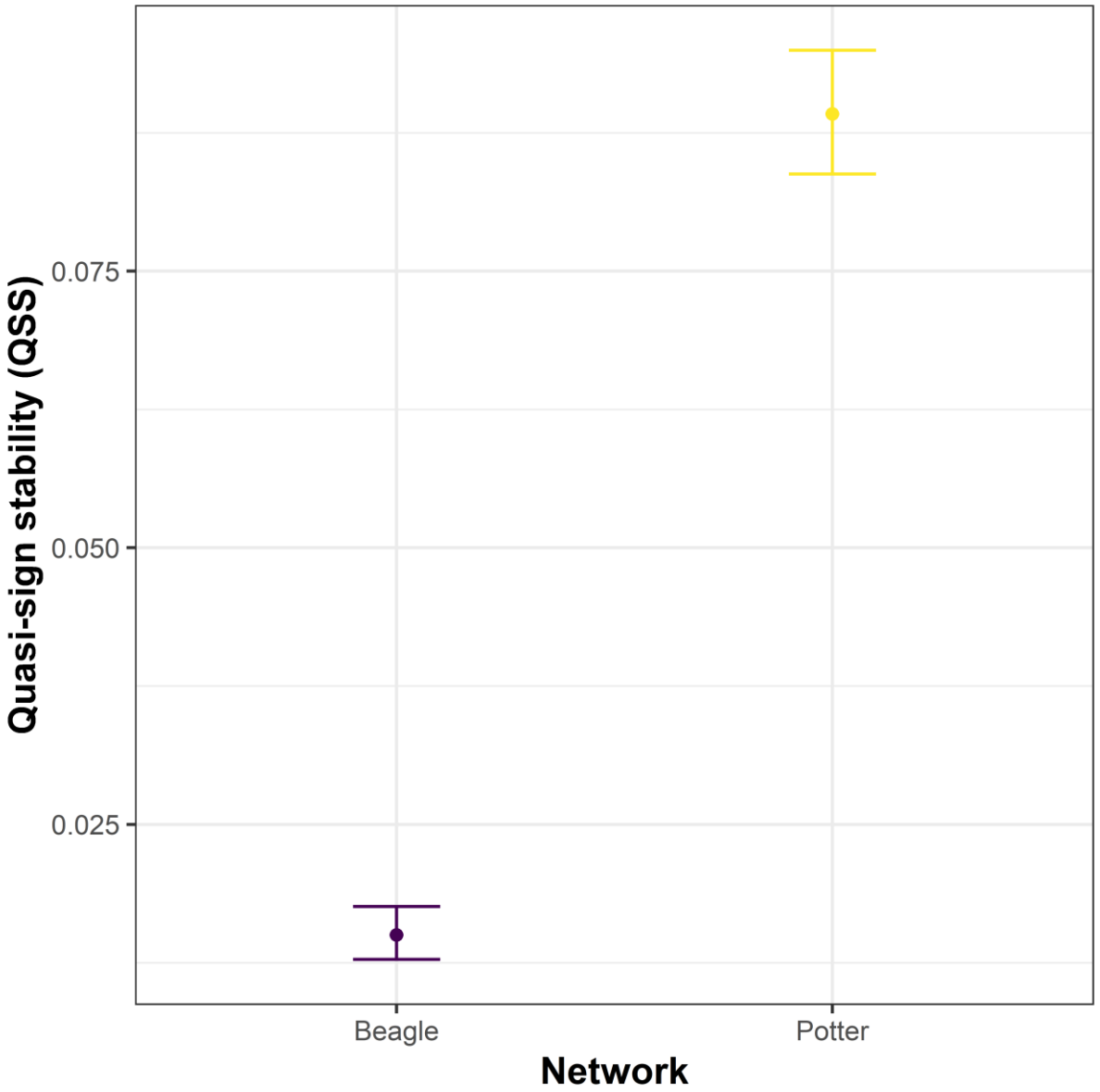




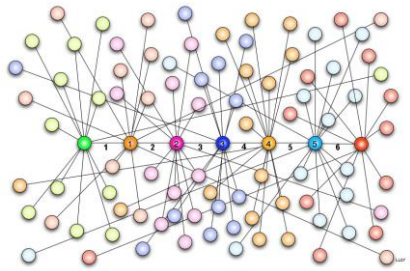

**Magnitud de efecto > 0.8 para los parámetros de los gráficos**

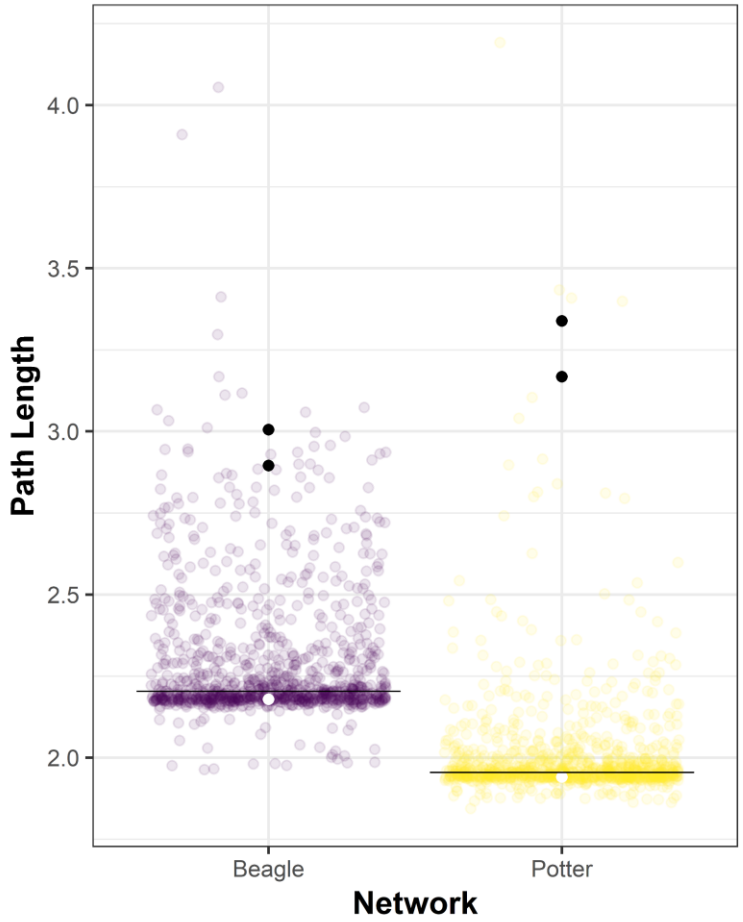
# Q (incoherencia) o QSS (quasi-sign stability)?

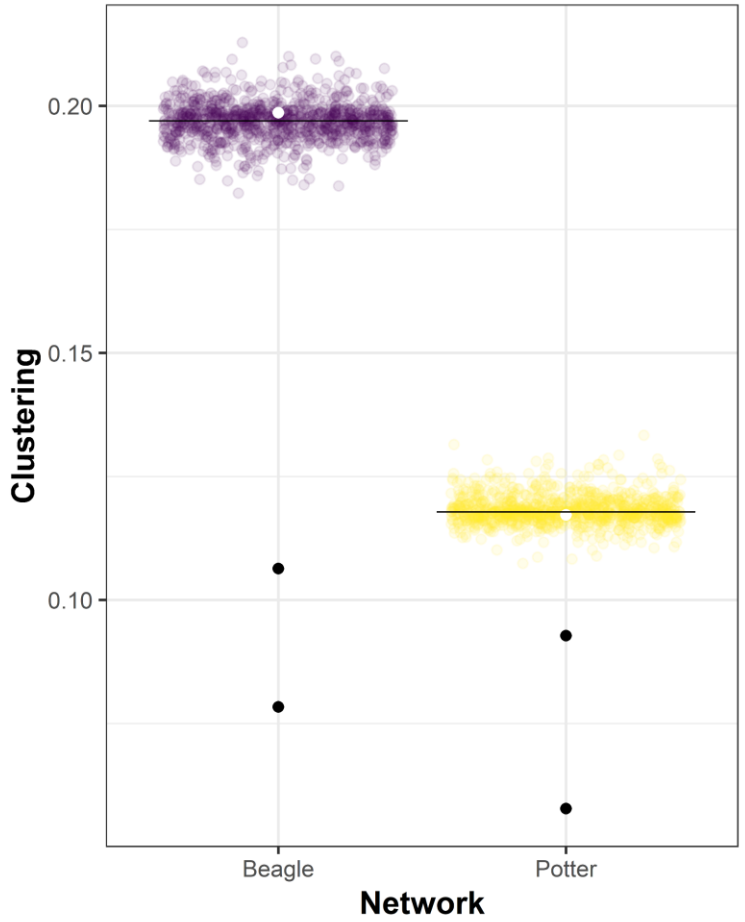


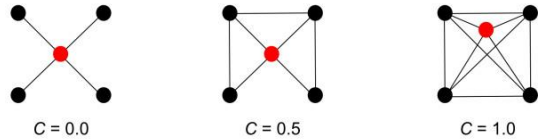



# Small-Worldness






Magnitud de efecto > 0.8 para los parámetros de los gráficos

**Path Length empírico < aleatorio**
**Clustering empírico > aleatorio**

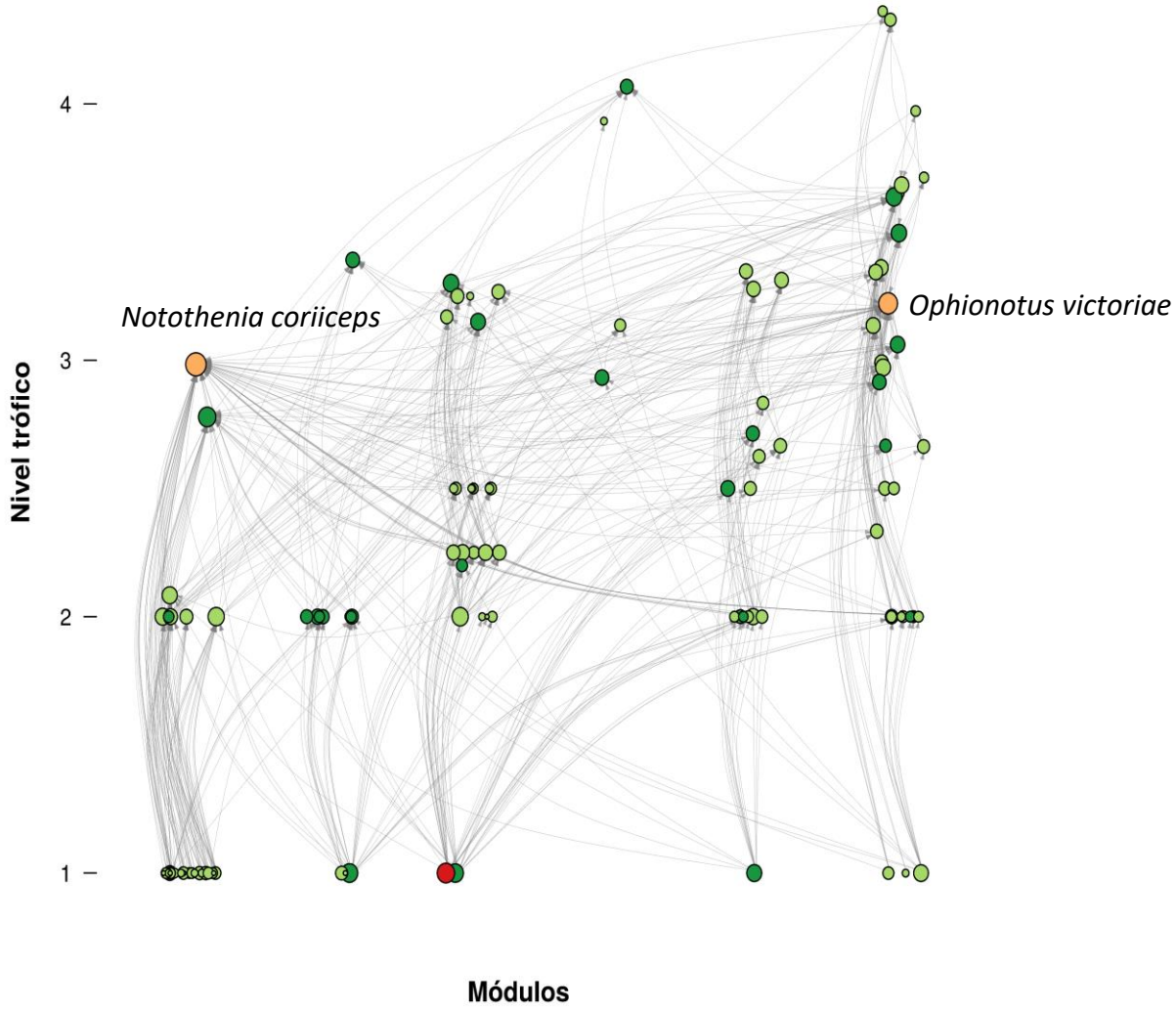
➡ **REDES PEQUEÑO MUNDO**

Sensibles a la propagación de perturbaciones
Alta velocidad de respuesta (resiliencia)

# CALETA POTTER

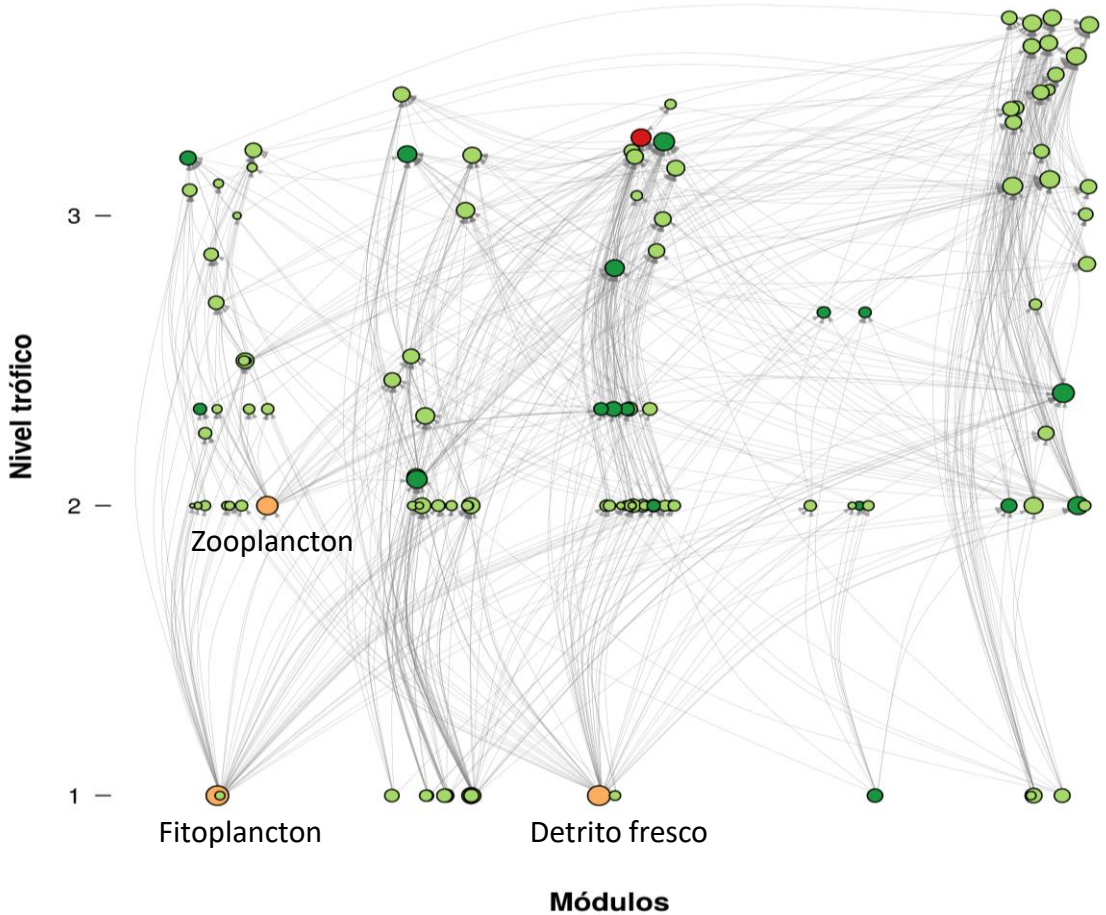
Mo = 0,37

Module hub/Concentrador de módulo
Module specialist/Especialista de módulo
Module connector/Conector de módulos
Hub-network connector/Conector de red




# CANAL DE BEAGLE

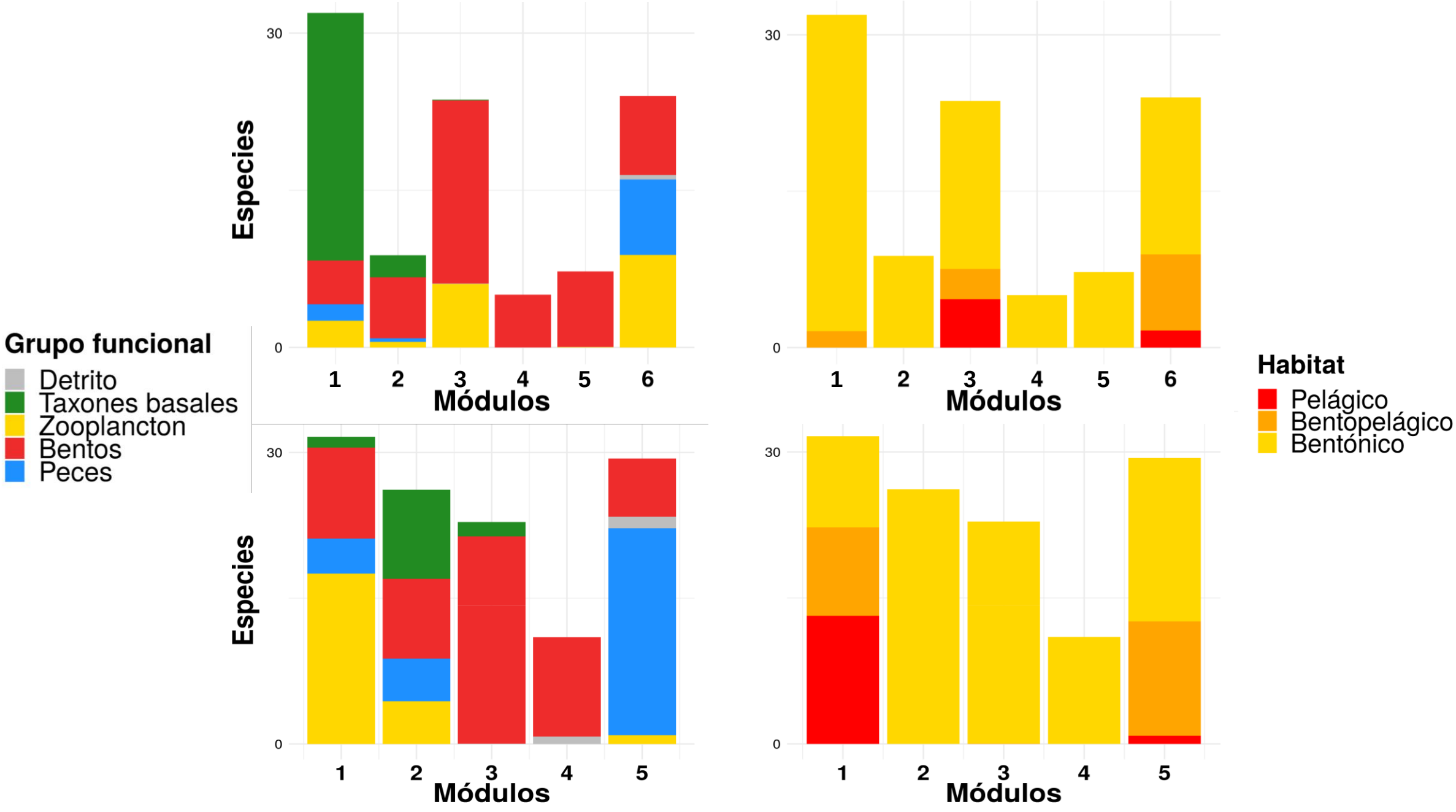
Mo = 0,38



# Módulos vs Grupos funcionales/Hábitat

CALETA POTTER

CANAL DE BEAGLE

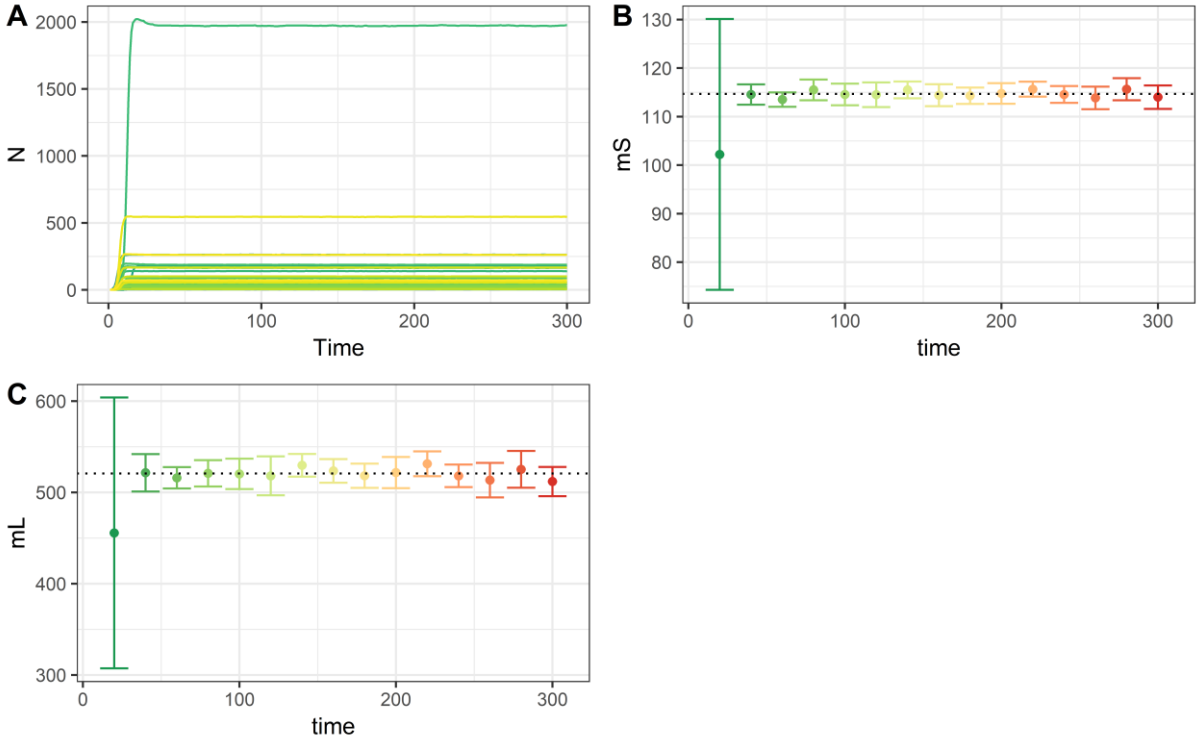


$$\frac{dX_i(t)}{dt} = X_i(t)\left(r_i + \sum_{j=1}^{n} a_{ij}\, X_j(t)\right)$$

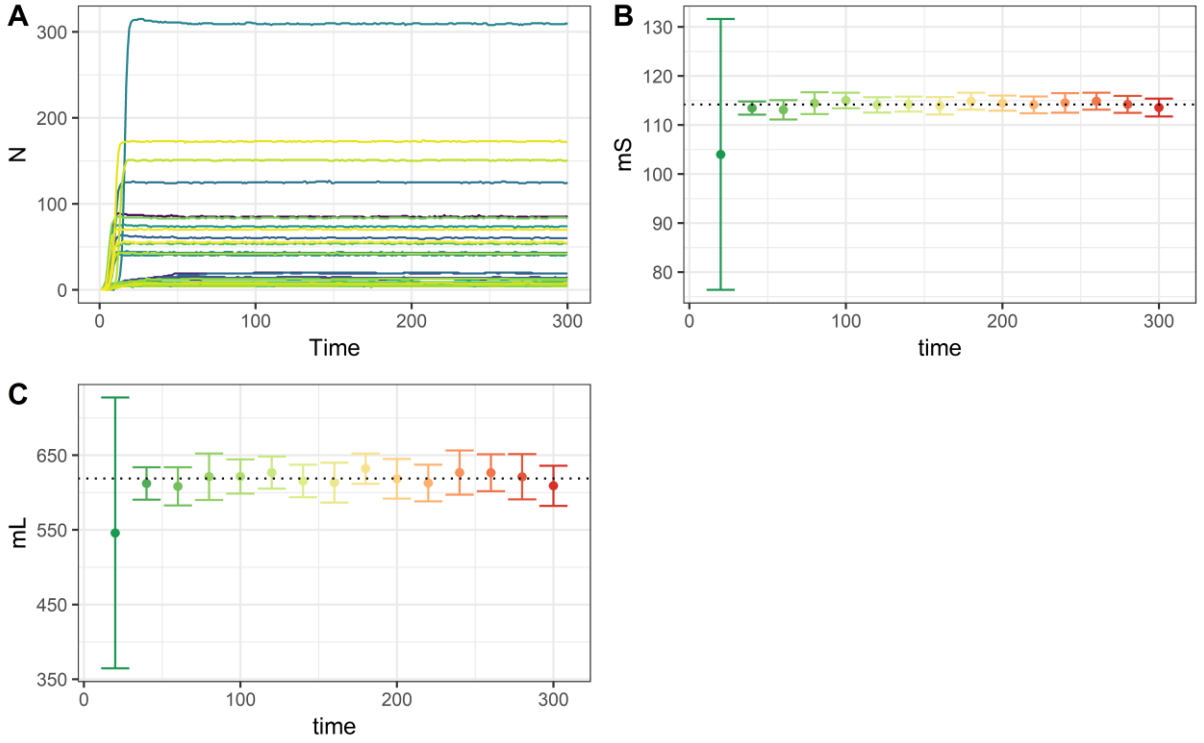
PARÁMETROS AJUSTADOS

- $a_{ij}$ distribución aleatoria
- $a_{ii}$ negativa y ≠ para especies basales y predadores
- tasa de colonización proporcional al TL

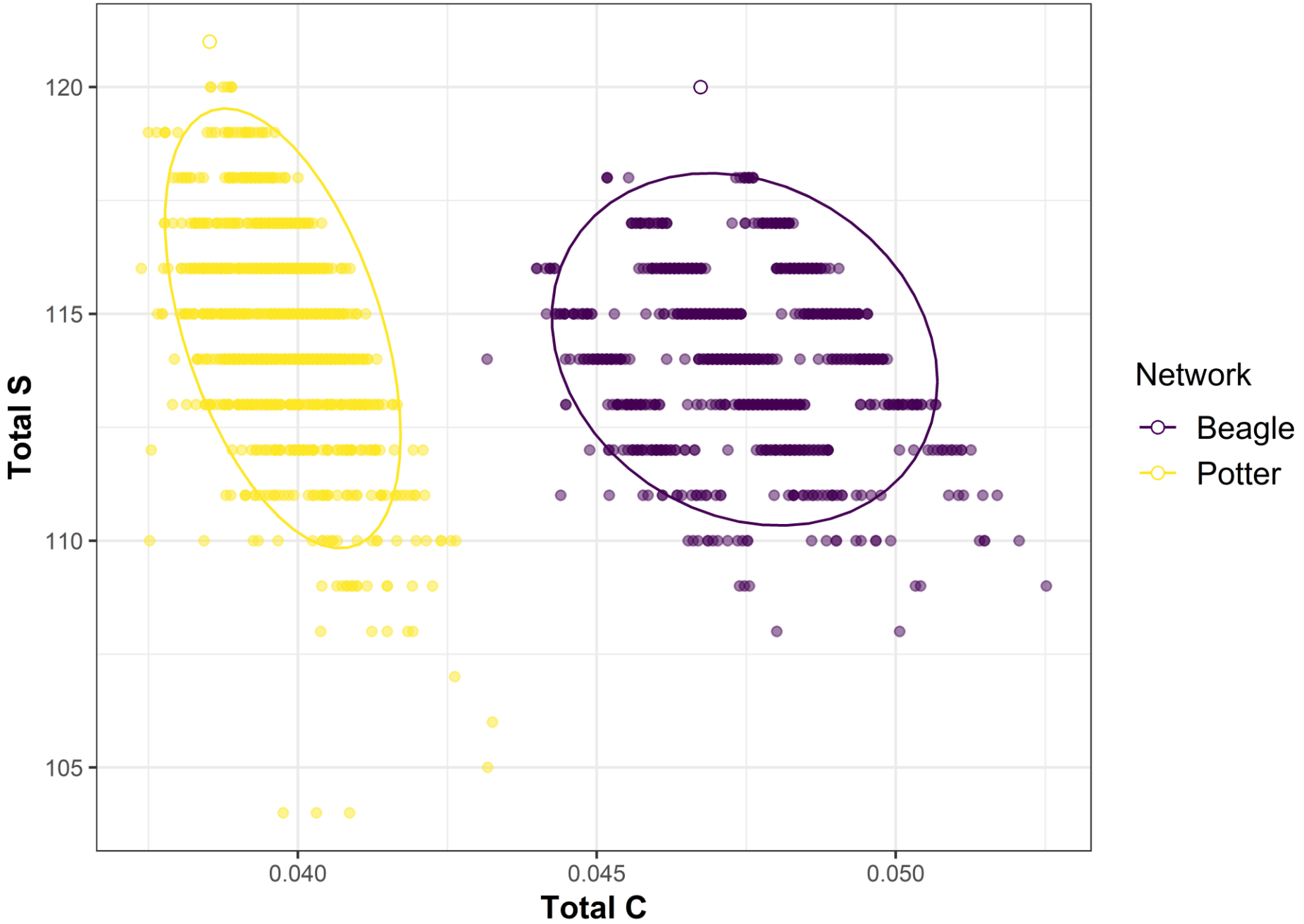
## CALETA POTTER



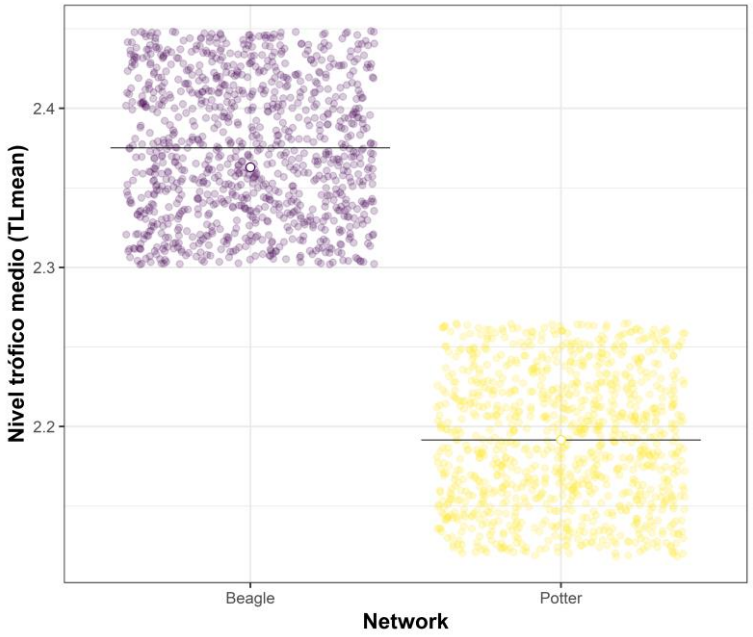

## CANAL DE BEAGLE

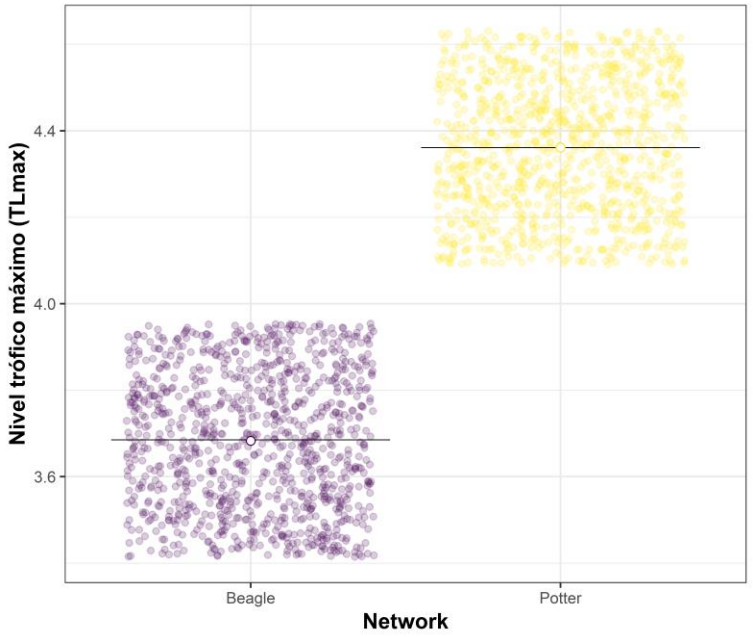


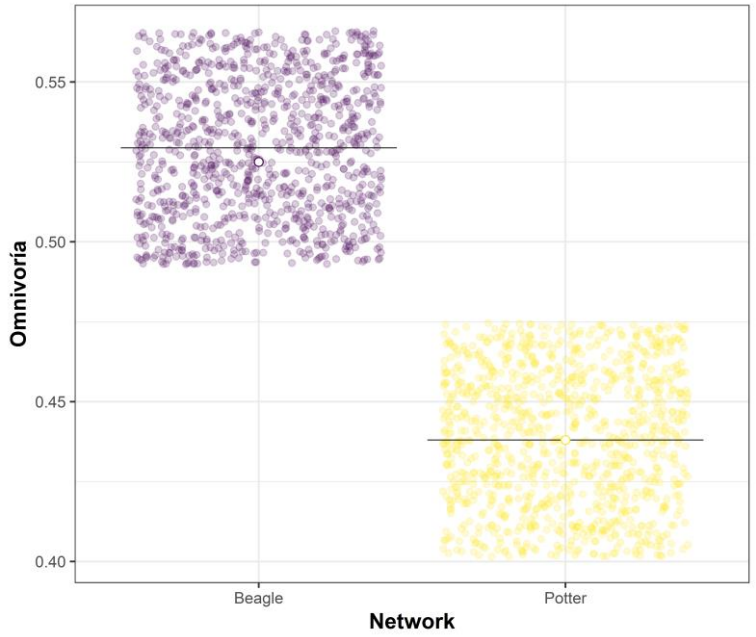
# Dinámica: Riqueza vs conectancia de 1000 simulaciones

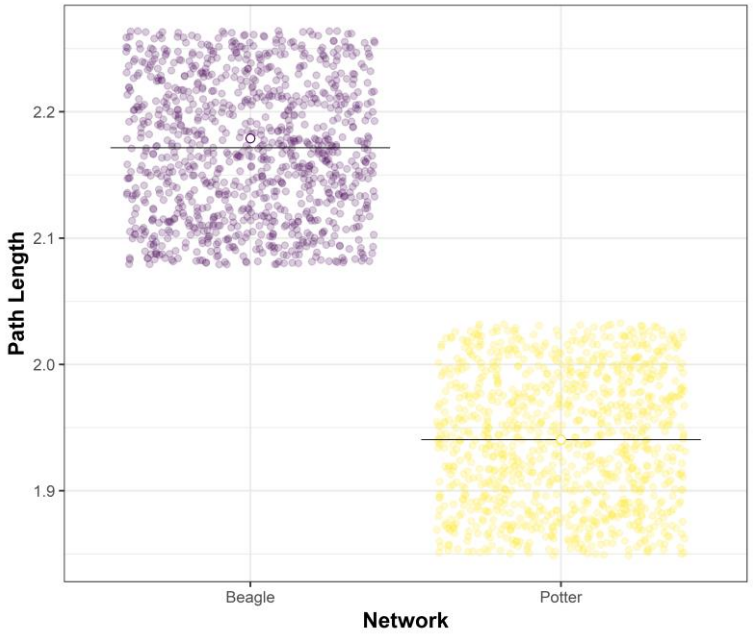


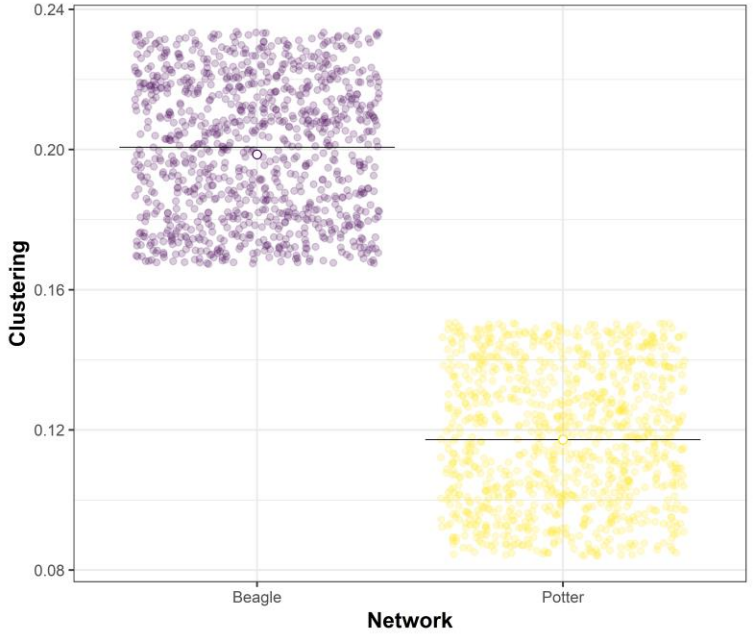
# Dinámica: Parámetros topológicos de 1000 simulaciones

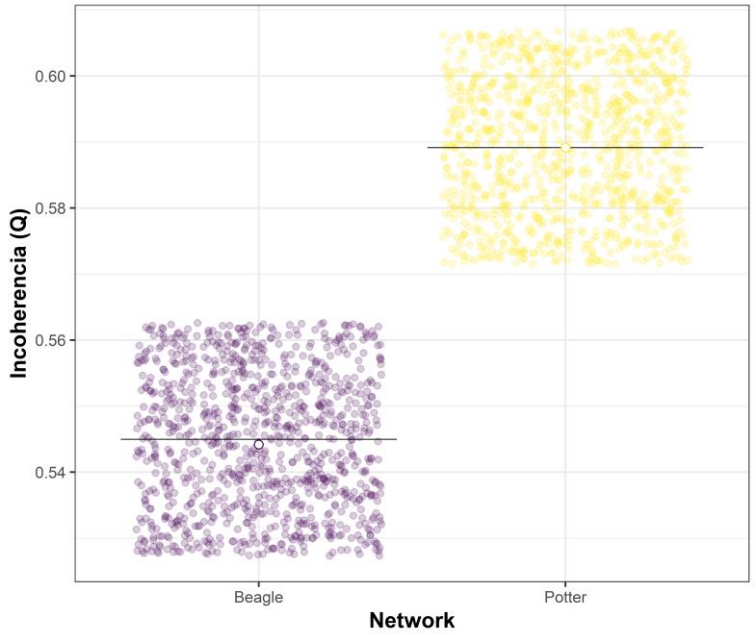


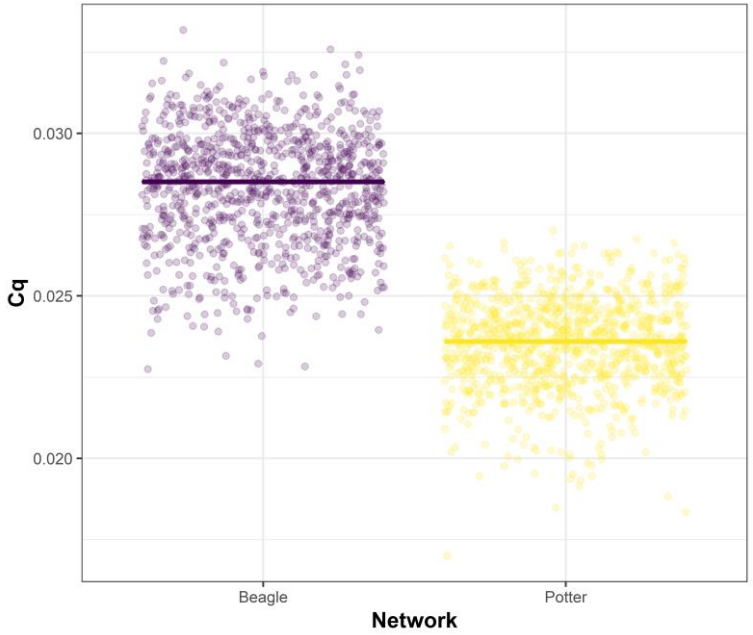



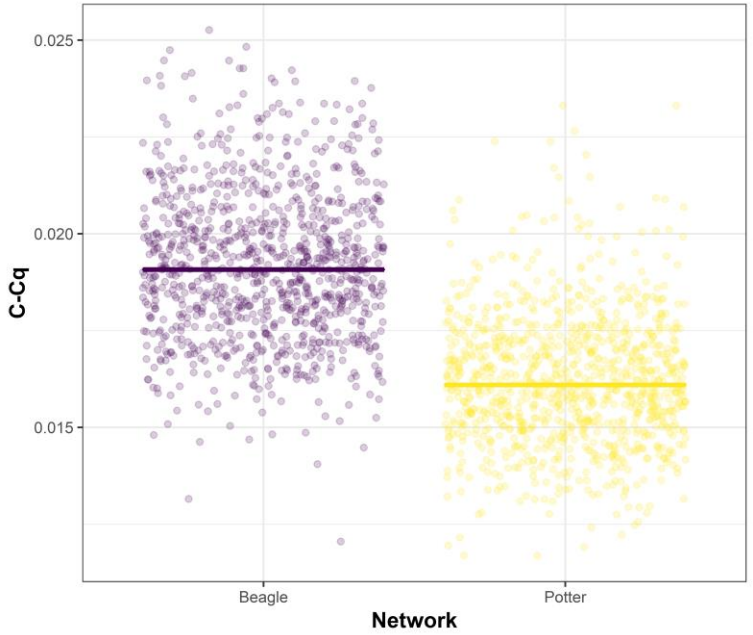



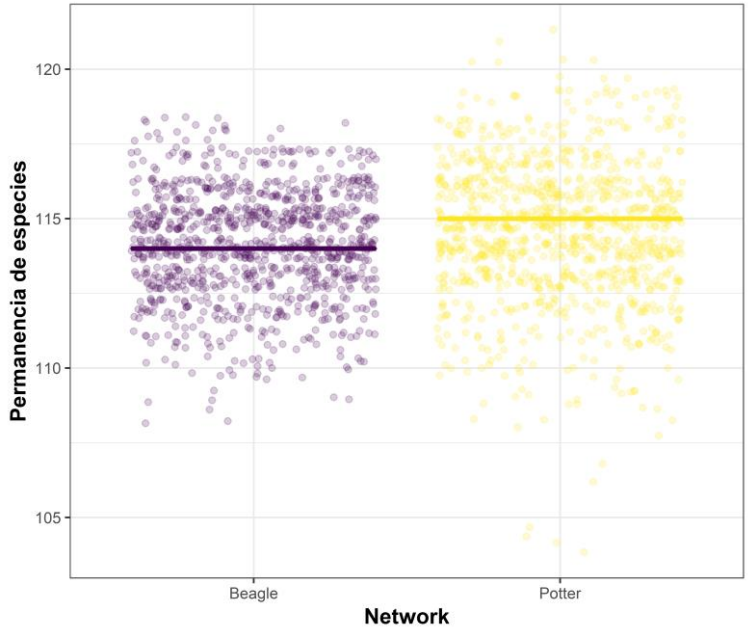



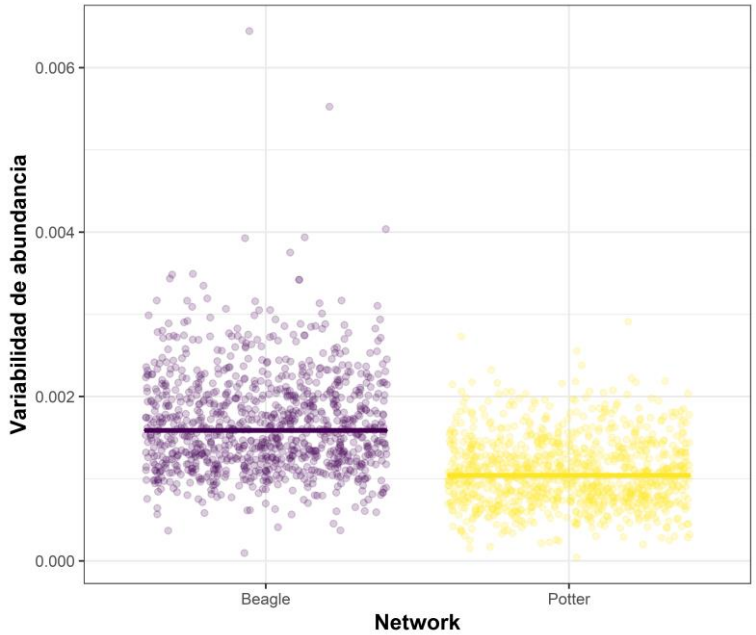

**Magnitud de efecto > 0.8 para los parámetros de los gráficos**

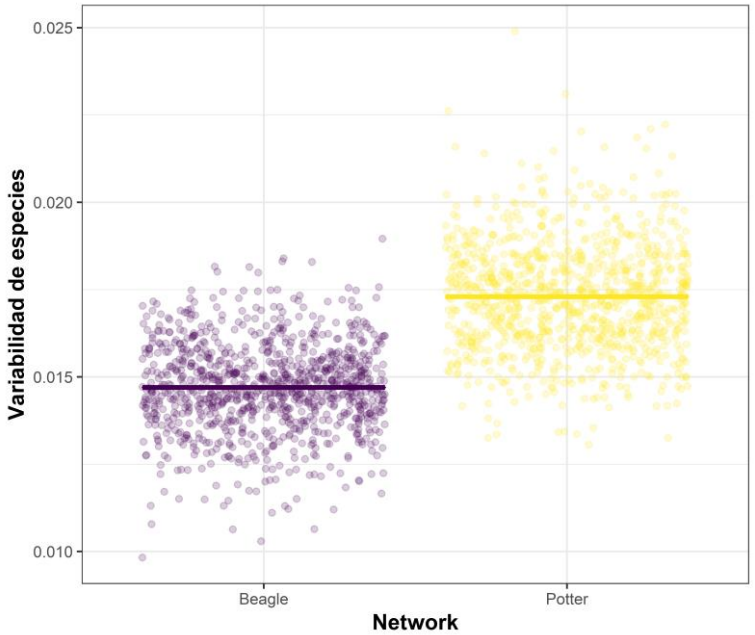
# Dinámica: Métricas de estabilidad



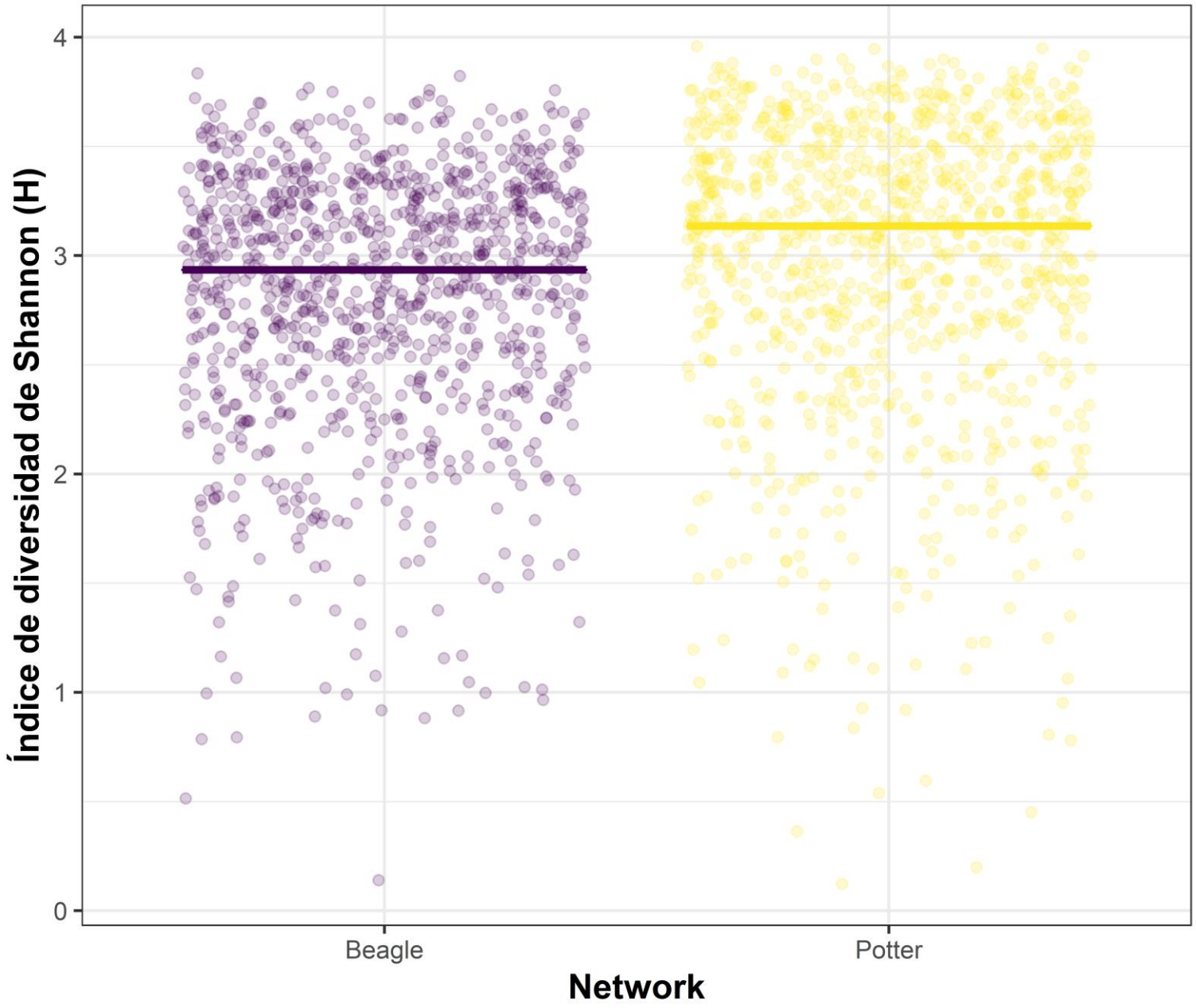




**Magnitud de efecto > 0.8 para todos los gráficos, excepto para Permanencia vs Network**

# Dinámica: Índice de diversidad de Shannon

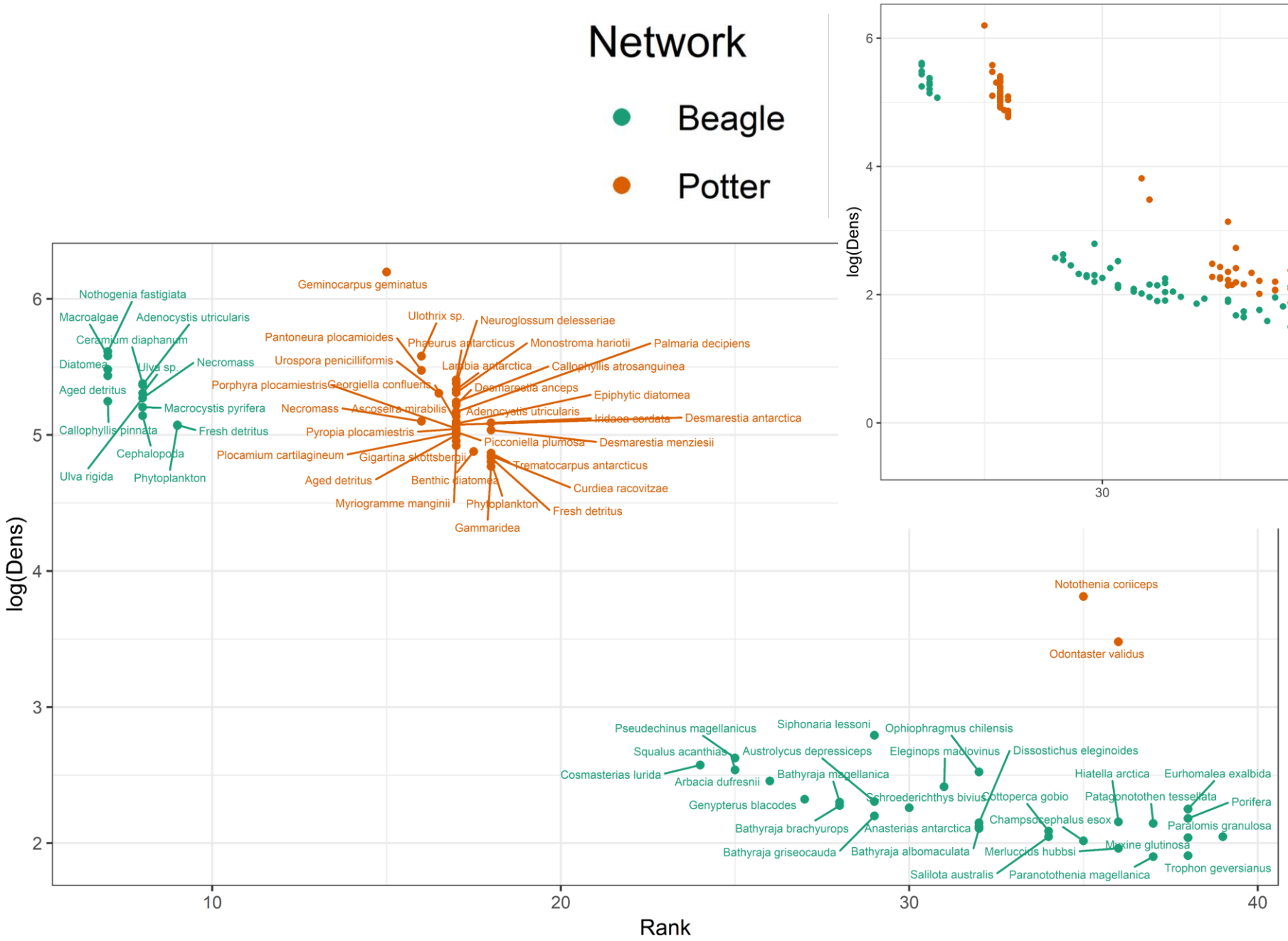


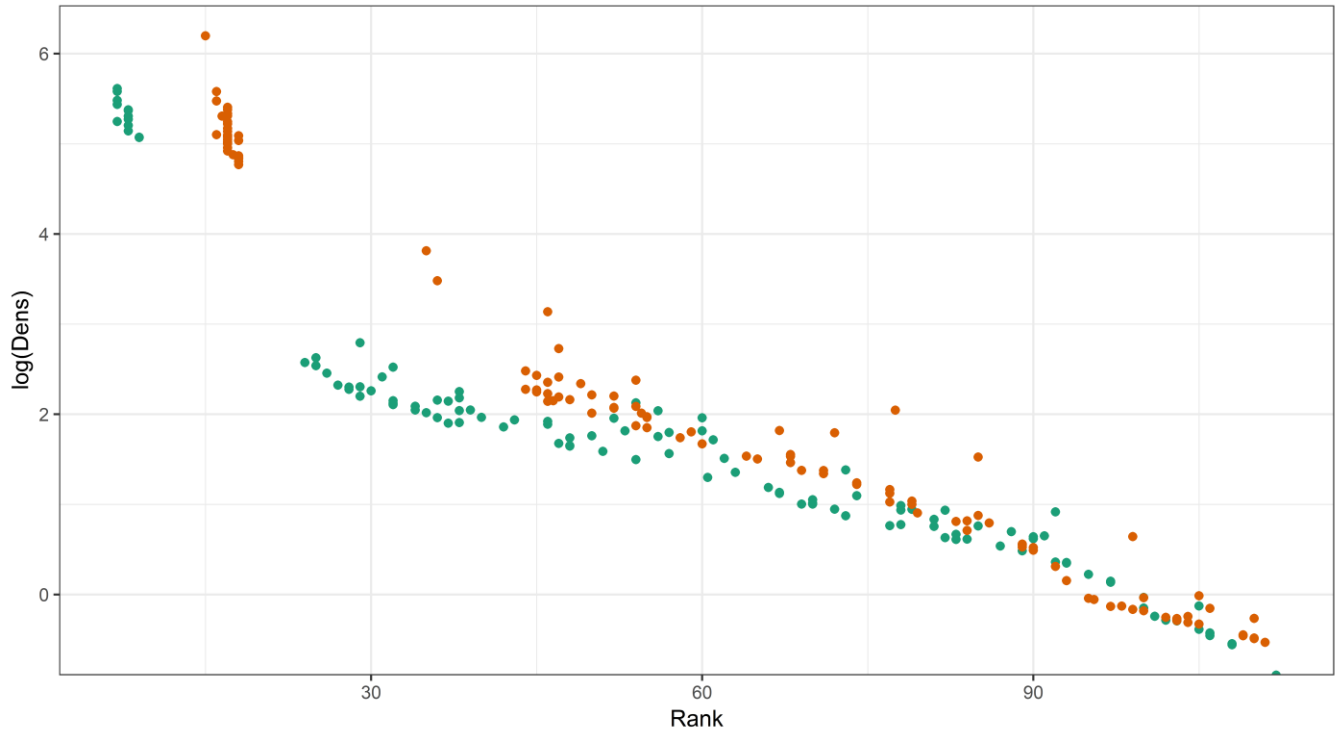

**Anderson Darling test**

AD.T = 51.3

p-value = 3.001e-22

# Dinámica: Distribución de rango vs abundancia




**Anderson Darling test**

AD.T = 1.38

p-value = 0.086