

Aim3: Geographical Ecology

Two Parts

Aim3: How rarity and detection
drive the TAR

Rarity & detection drive microbial taxa-area relationships

- Use well-established relationships of abundance-occurrence and uneven SADs, with known detection issues of molecular surveys to turn a popular idea on its head.
- Ready to be sketched-up.
- **Feeds into the influence of seed banks on commonness and rarity**

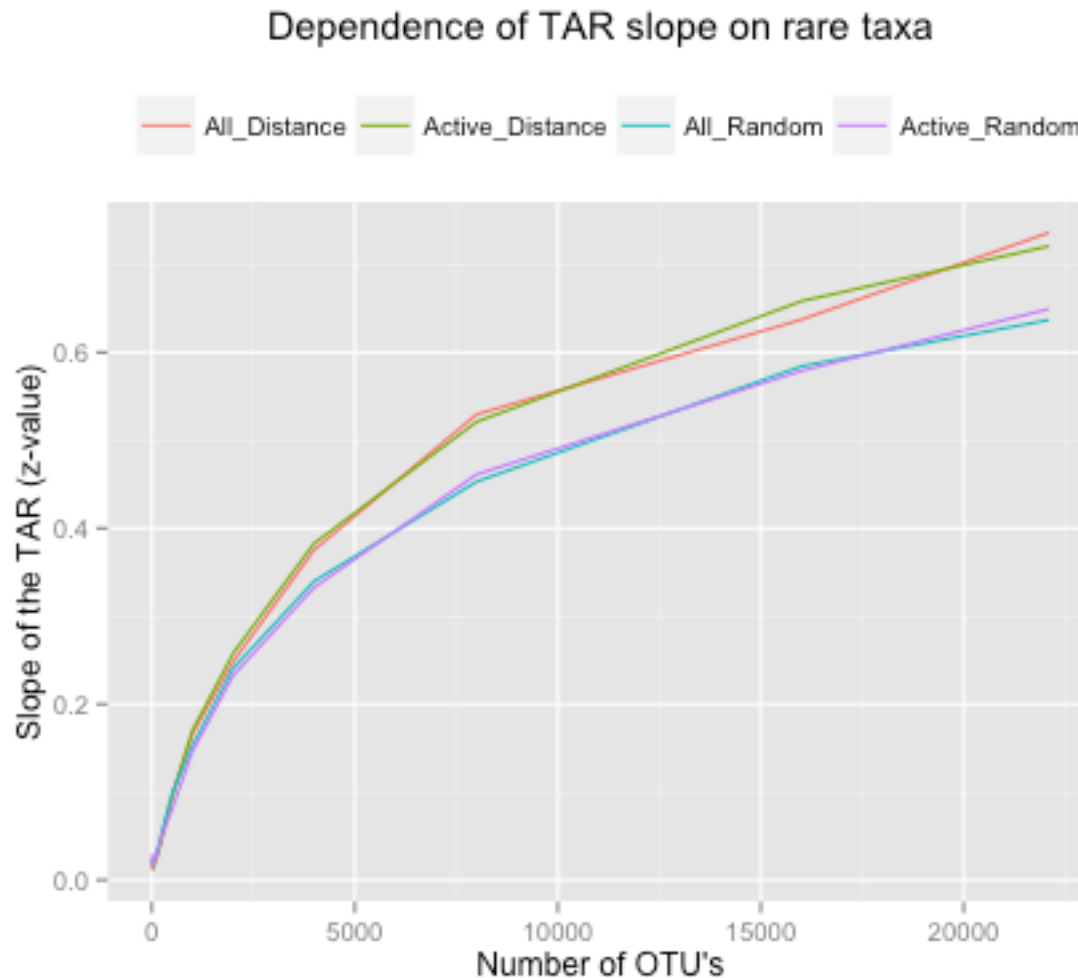
(c)

SPECIES PRESENCE / ABSENCE

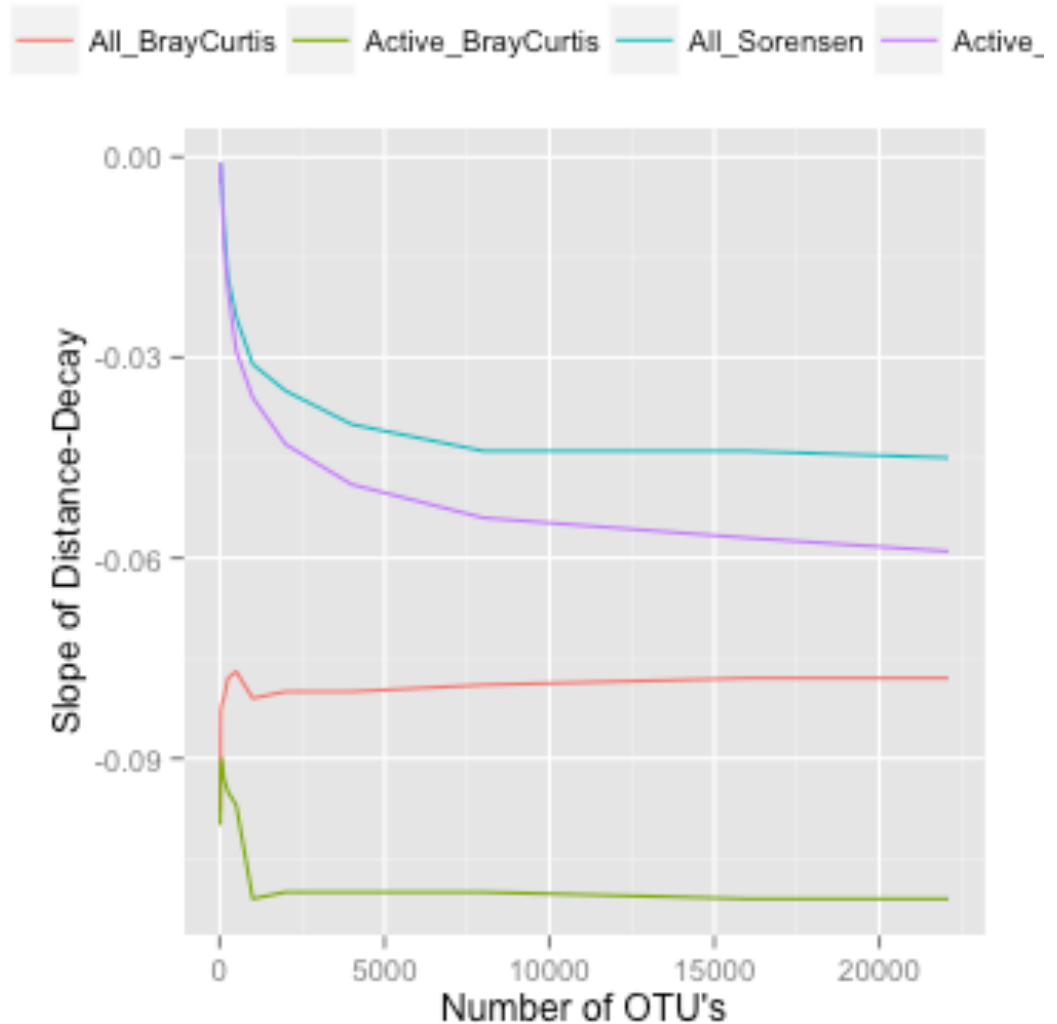
Idiosyncratic Temperaturas by lakes

Idiosyncratic Temperaturas by species

Detection of rarity leading to asymptotic TARs?



Dependence of Distance-Decay slope on rare taxa

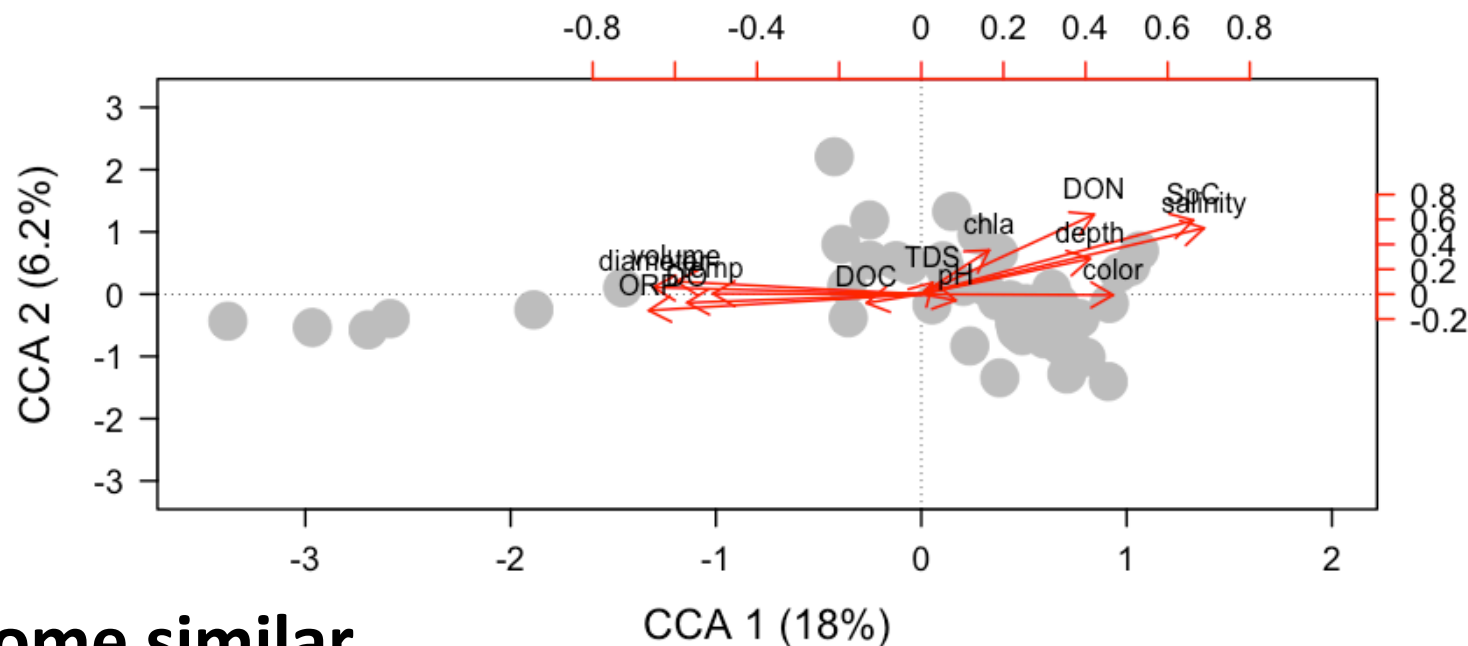


Greater numbers of increasingly rare taxa make the slope of the presence-absence DD increasingly negative

presence-absence DD is most analogous to TAR

Aim3: Dual role of dormancy in shaping microbial biogeography

Active



Definitely some similar
grouping

All

