All

More stressful

Relatively favourable

More favourable

Relatively stressful

Physiological

Morphological

Life-history

Survival

Reproductive

Annual plant

Invertebrate

Vertebrate

Perennial plant

F1

F2

F3

−0.2 0.0 0.2 0.4

Analysis with the raw data uploaded by Yin et al.

1. Yin et al. random= ~ 1|species/study

Analysis with the proofed data uploaded by Sánchez-Tójar et al.

2. Sánchez-Tójar et al. non-conservative approach: random=list(~1|obsID, ~1|study, ~1|species)
3. Sánchez-Tójar et al. accounting for shared control
4. Sánchez-Tójar et al. accounting for phylogenetic non-independence (Brownian motion model)
5. accounting for phylogenetic non-independence (Pagel's λ, λ=0.5)
6. accounting for phylogenetic non-independence (Blomberg's g, g=0.2)