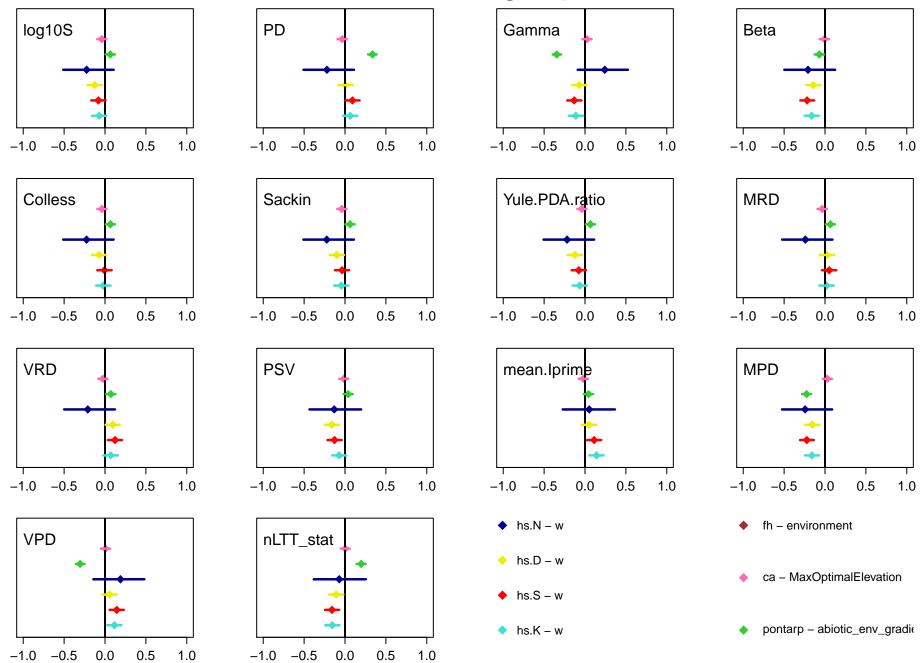
## environmental filtering experiment



correlation coefficient

#### niche conservatism experiment log10S PD Gamma Beta -1.0 -0.5 0.0 -0.50.0 0.5 0.5 -1.0 -0.50.0 0.5 -1.0 -0.50.0 0.5 -1.01.0 1.0 1.0 1.0 Yule.PDA.ratio Colless Sackin **MRD** -1.0 -0.5 -1.0 -0.5 -0.50.0 0.5 1.0 0.0 0.5 1.0 -0.5 0.0 0.5 1.0 0.0 0.5 -1.01.0 **VRD PSV** mean.lprime **MPD** -0.5 0.0 0.5 1.0 -1.0 -0.5 0.0 0.5 1.0 -1.0 -0.50.0 0.5 1.0 -1.0 -0.50.0 0.5 -1.01.0 ca - Niche\_evolution **VPD** nLTT\_stat pontarp - mutation\_step hs.N - sigma\_E hs.D - sigma\_E hs.S - sigma\_E hs.K - sigma\_E

correlation coefficient

-1.0

-0.5

0.0

0.5

1.0

-0.5

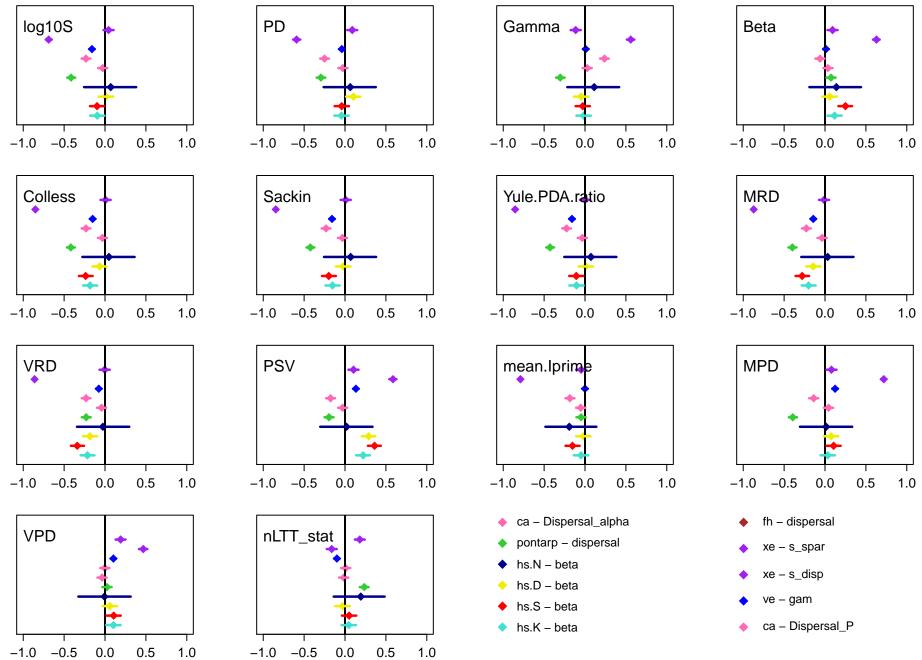
-1.0

0.0

0.5

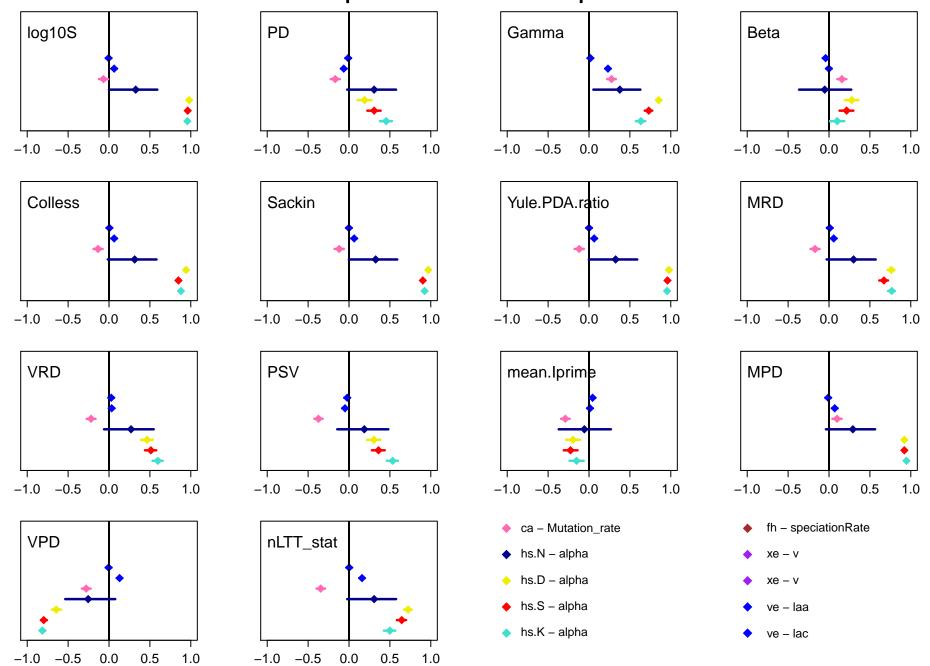
1.0

# dispersal experiment



correlation coefficient

## mutation/speciation rate experiment



correlation coefficient

### competition experiment PD Gamma Beta -0.50.0 0.5 -1.0 -0.50.0 0.5 -1.0 -0.50.0 0.5 -1.0 1.0 1.0 1.0 Sackin Yule.PDA.ratio MRD -0.5 -1.0 0.0 0.5 1.0 -0.5 0.0 0.5 1.0 -1.0-0.5 0.0 0.5 -1.01.0 **PSV MPD** mean.lprime -1.0 -0.5 0.0 0.5 1.0 -1.0 -0.50.0 0.5 1.0 -1.0 -0.50.0 0.5 1.0

log10S

-0.5

-0.5

-0.5

-0.5

**VRD** 

-1.0

-1.0

**VPD** 

Colless

0.0

0.0

0.0

0.0

0.5

0.5

1.0

1.0

