

S1 Text. Details on the Bayesian variable selection

Prior probability for θ_2 was specified as a mixture of normal distributions:

$$\Pr(\theta_2|w) = (1 - w) \text{Normal}(0, 1) + w \text{Normal}(0, \Sigma)$$

where the fixed prior variance $\Sigma = V/(l + 1)$, with l denoting the number of regressors in Eq. 8 in the main text ($l = 1$ if $w = 0$, and $l = 2$ if $w = 1$) and the total variance in the linear predictor V with a $\text{Gamma}(3.2890, 7.8014)$ prior assigned [1].

REFERENCES

1. Link WA, Barker RJ. Model weights and the foundations of multimodel inference. *Ecology*. 2006;87(10):2626–2635.