

Posterior Prior

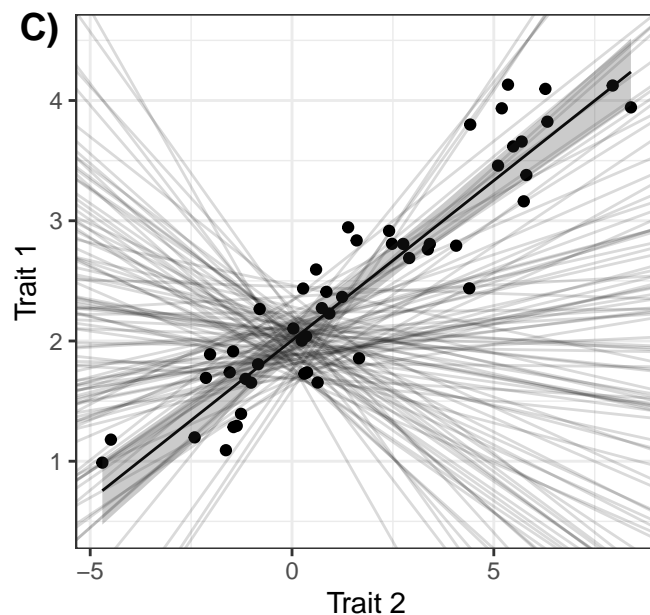
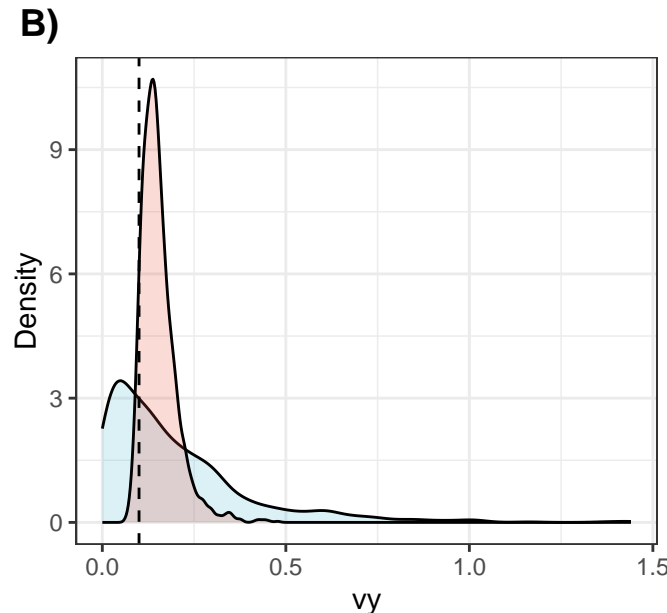
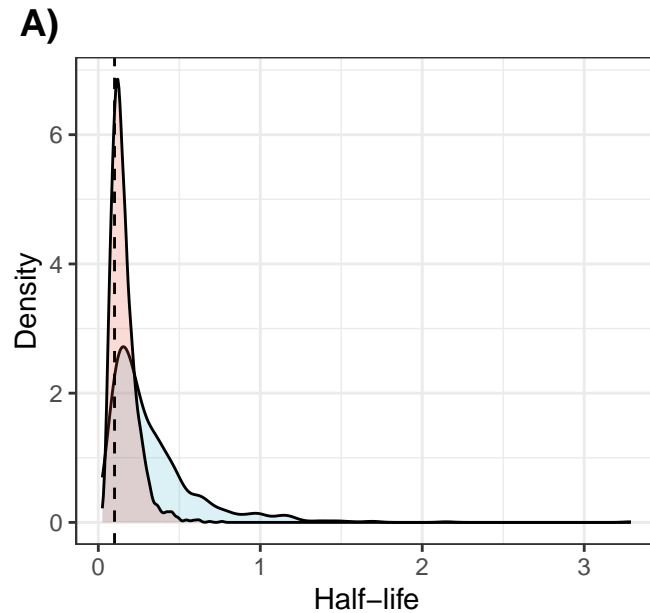


Fig. S1: Prior vs. posterior for A) Half-life, B) v_y , and C) Predicted mean intercept and slope and 89% compatibility interval for the means with priors in light grey and posterior in dark grey colors. For this simulation parameter values were set to: $hl=0.1$, $v_y=0.1$, $\alpha=2$, $\beta=0.25$; Priors: $hl \sim \text{lognormal}(\log(0.25), 0.75)$; $v_y \sim \text{exponential}(5)$; $\alpha \sim \text{normal}(0, 1)$; $\beta \sim \text{normal}(0, 1)$. Dotted lines in A) and B) are true values of the parameter