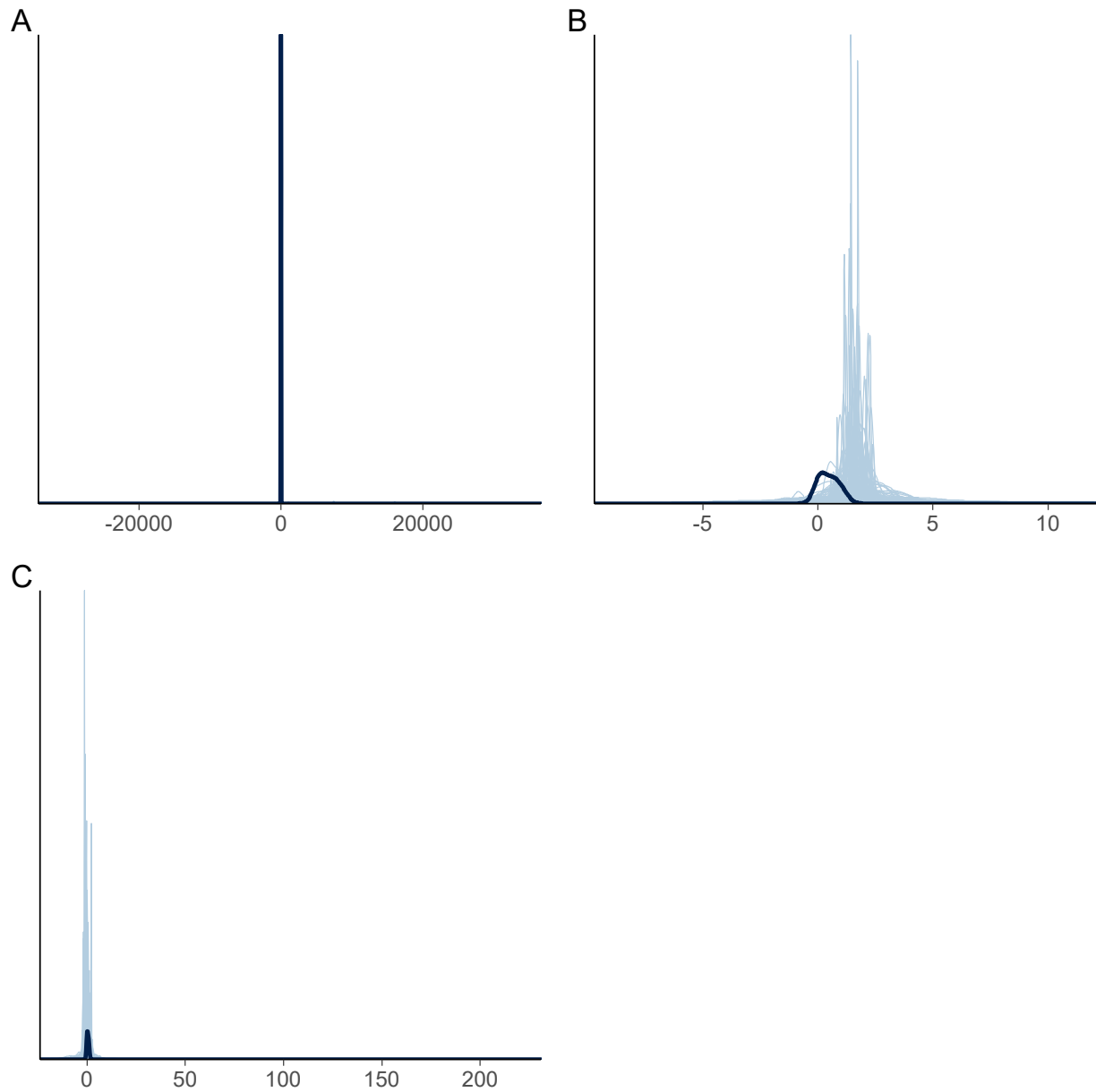


Figure S1

Model Prior Predictive Checks



Note: Density plot of the prior probability distributions for log-relative risk values. Dark blue lines show the observed data, while light blue lines show the generated data. Panel A: Model with non-informative priors. Due to the wide scale of the x-axis the light blue lines are not visible. Panel B: Model with an informative intercept prior. Panel C: Model with weakly informative priors.

Figure S2

Trace Plots for Model with Non-Informative Priors

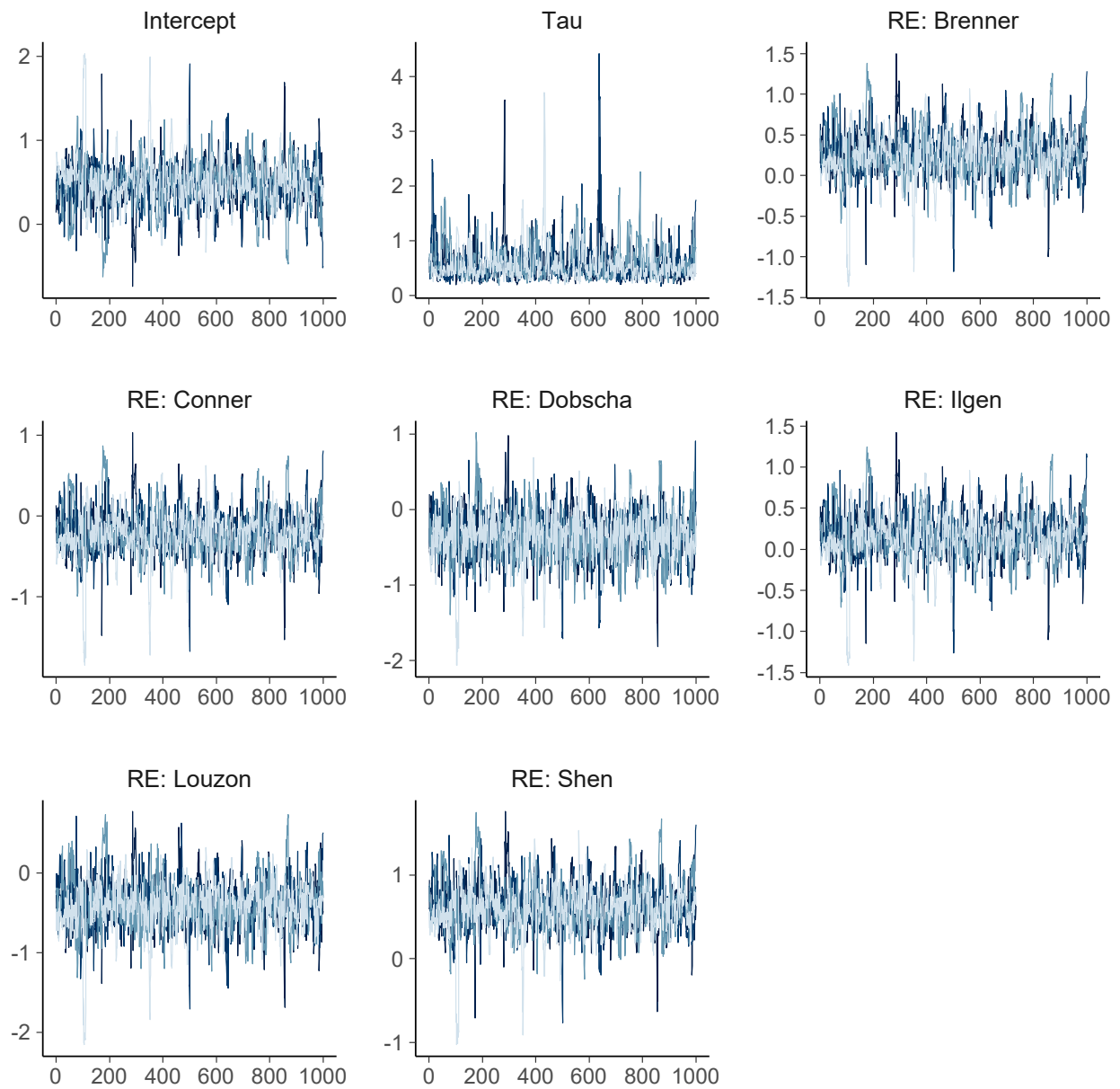


Figure S3

Trace Plots for Model with Informative Intercept Prior

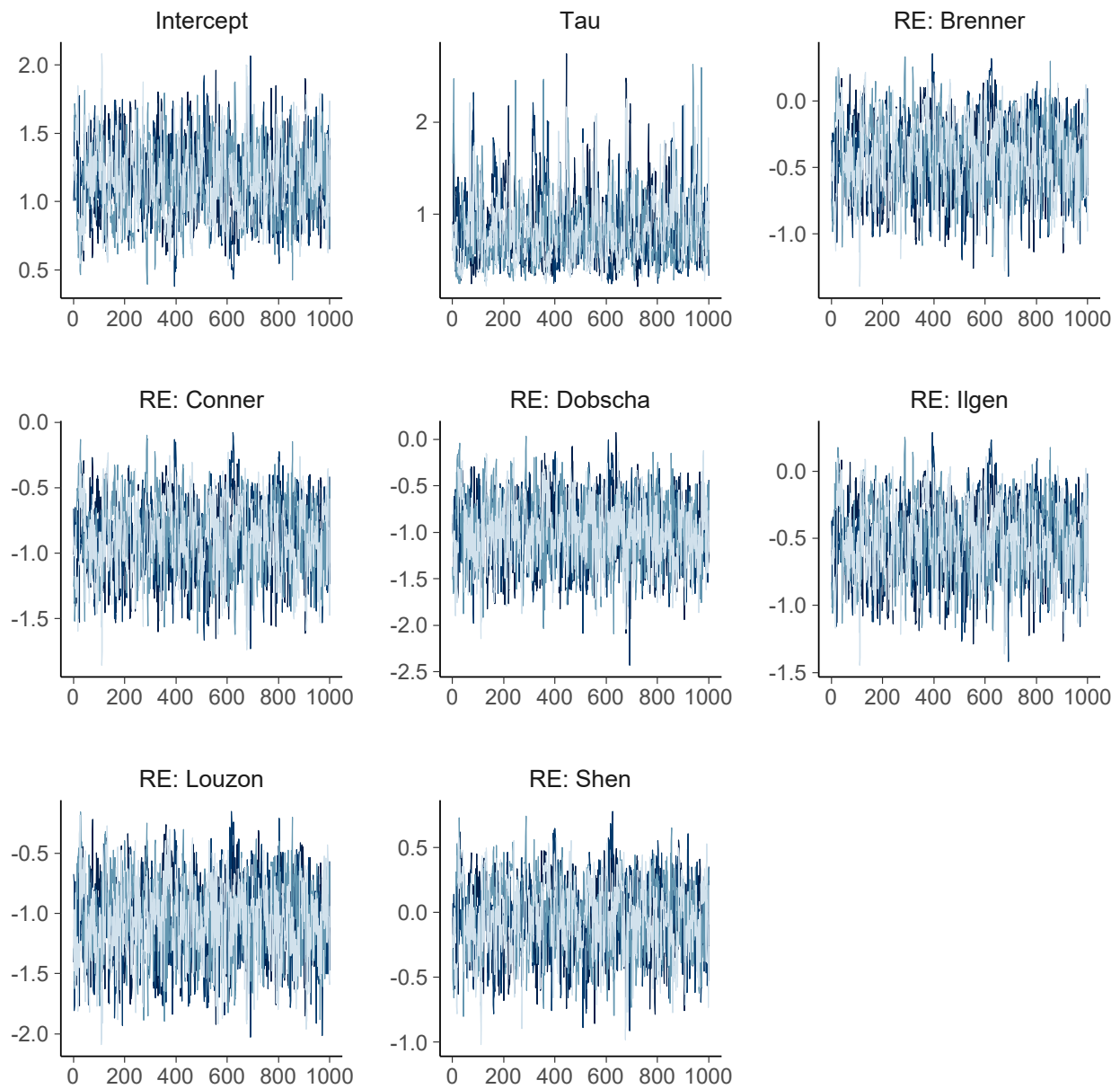


Figure S4

Trace Plots for Model with Weakly Informative Priors

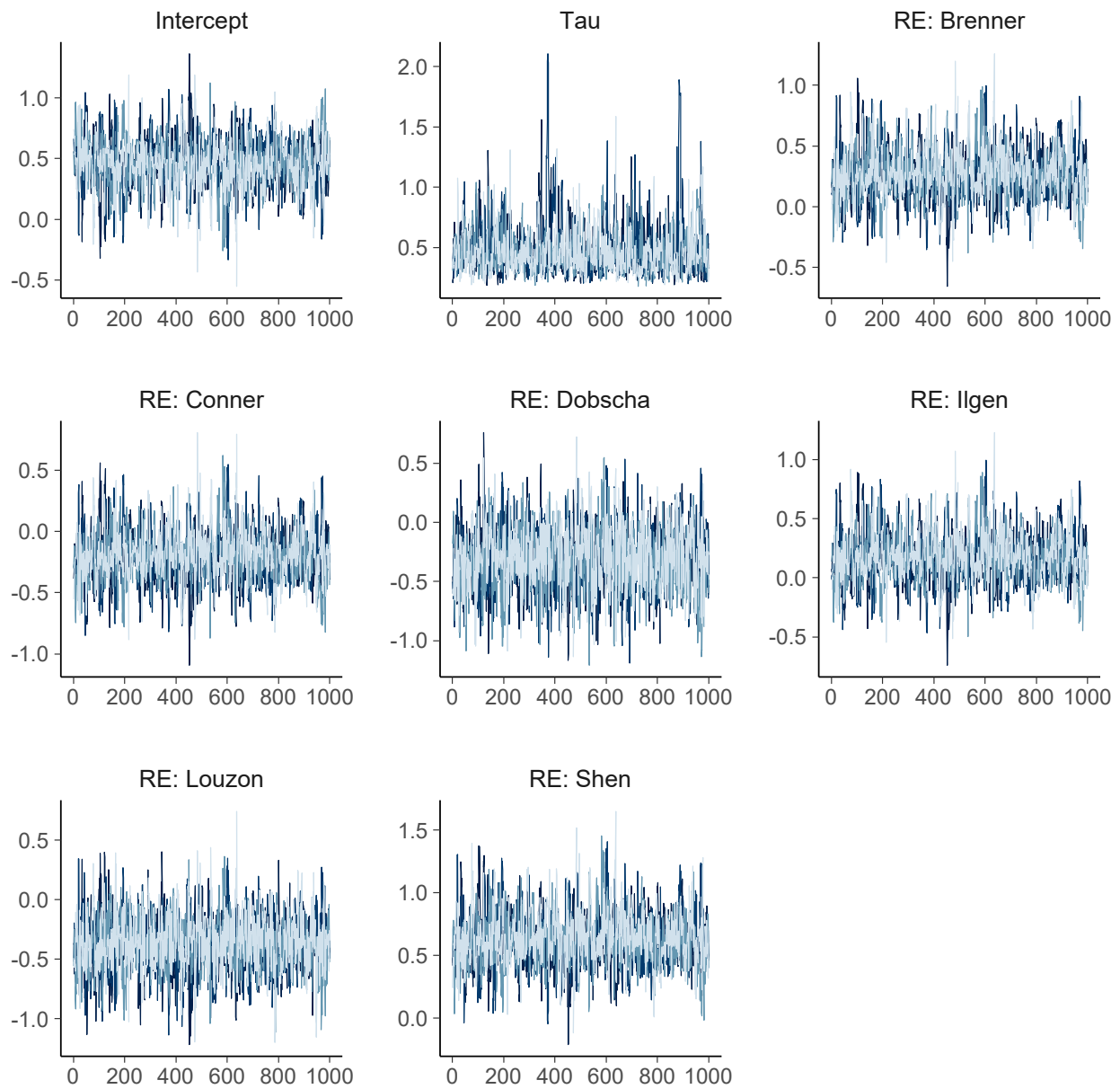
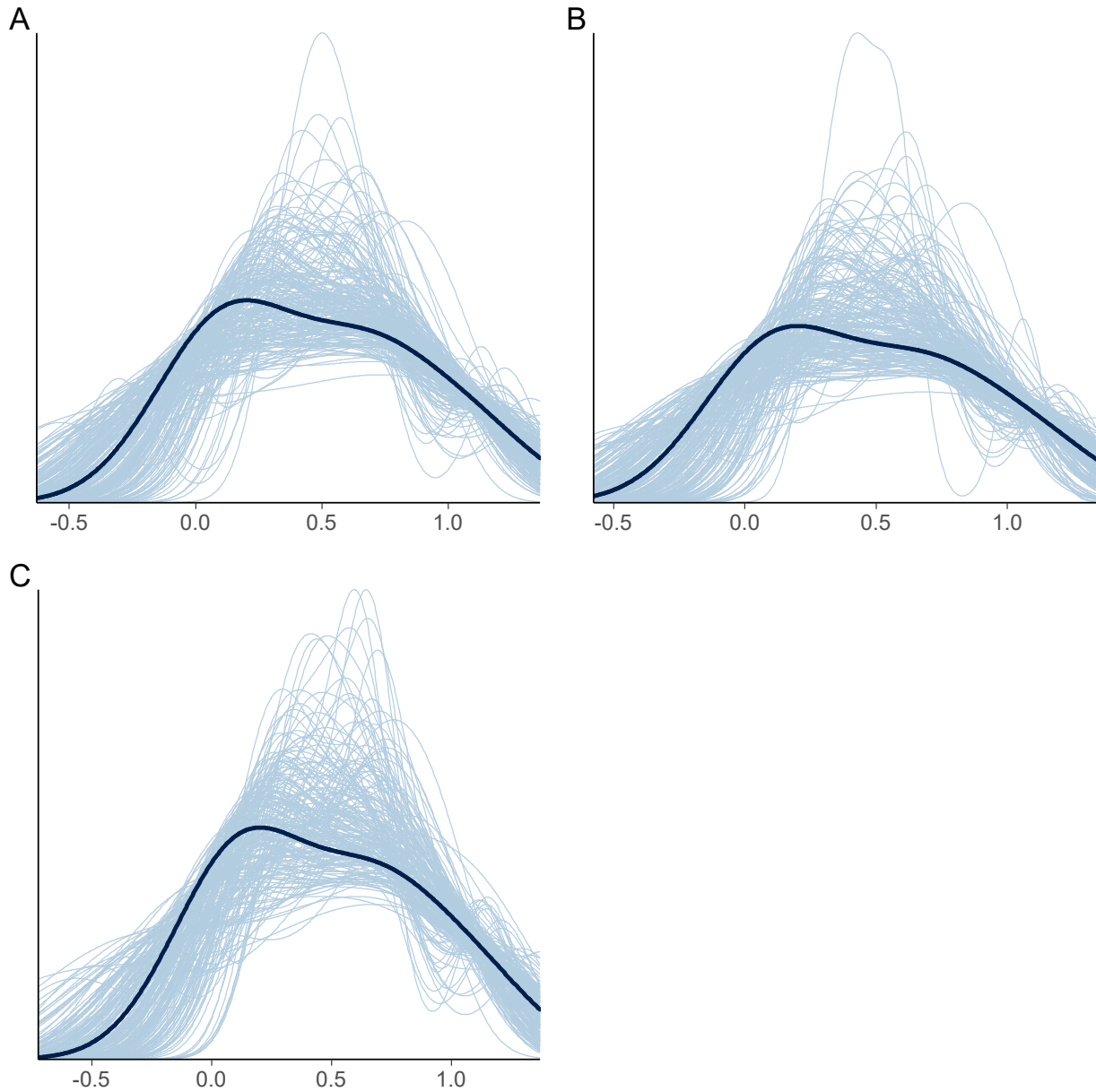


Figure S5

Model Posterior Predictive Checks



Note: Density plot of the posterior probability distributions for log-relative risk values. Dark blue lines show the observed data, while light blue lines show the generated data. Panel A: Model with non-informative priors. Panel B: Model with an informative intercept prior. Panel C: Model with weakly informative priors.

Figure S6

Funnel Plot of Observed Log-Relative Risks

