FIG. S1. Posterior distribution for the fixed parameters of a zero-adjusted generalised Poisson model fitted using Bayesian inference with R-INLA. (**A**) For the Bernoulli part of the model. (**B**) For the zero-truncated generalised Poisson part of the model.

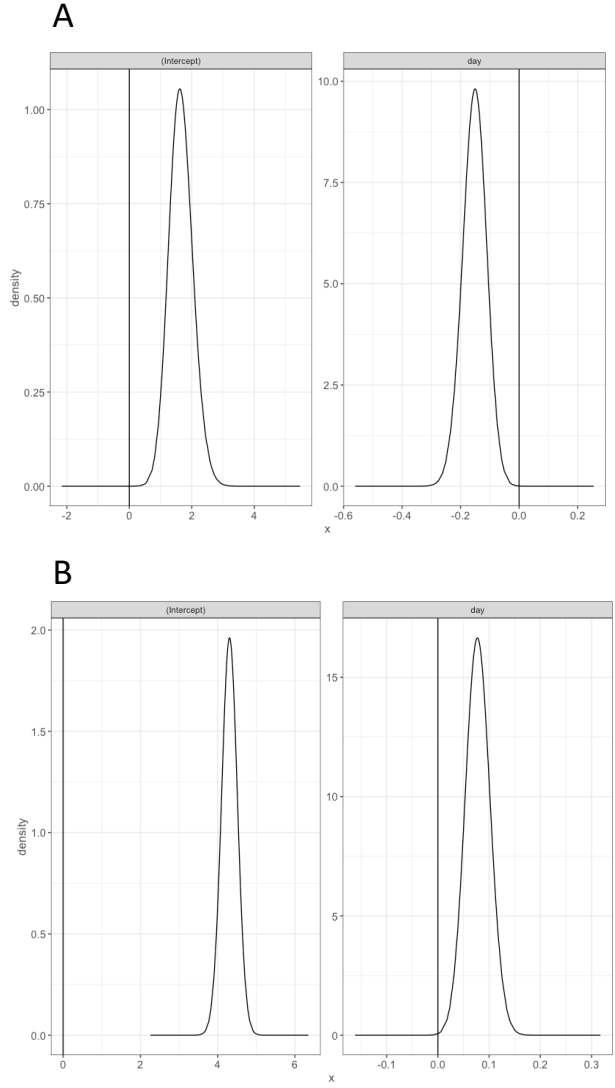

FIG. S2. Posterior distribution for the hyperparameters of a zero-adjusted generalised Poisson model fitted using Bayesian inference with R-INLA. (**A**) For the Bernoulli part of the model. (**B**) For the zero-truncated generalised Poisson part of the model.

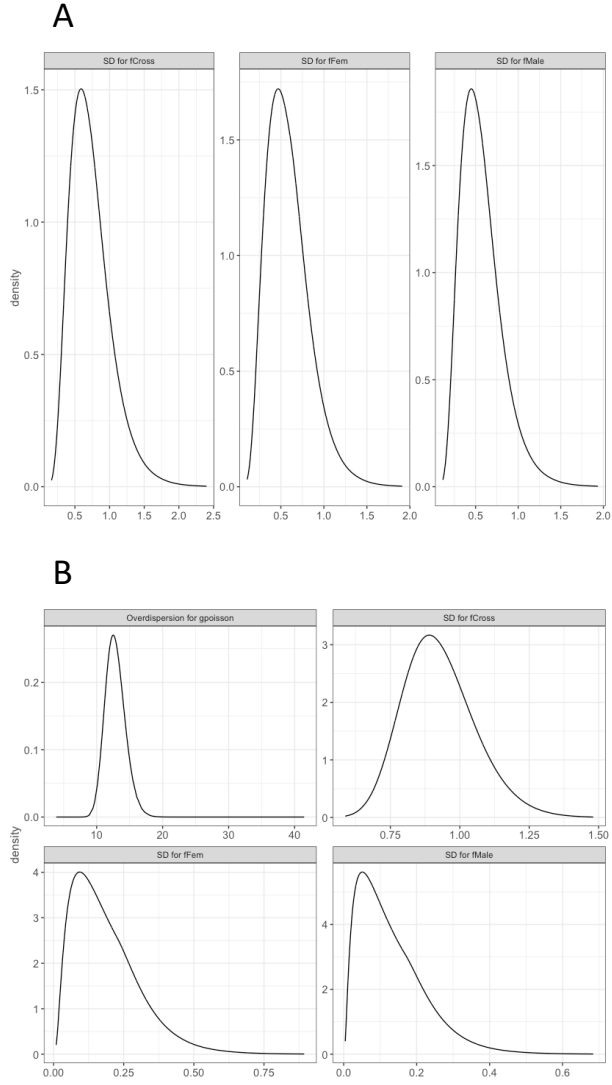

FIG. S3. Bayesian residuals for the the Bernoulli part of the zero-adjusted generalized Poisson GLMM. Residuals plotted against: (**A**) fitted values, (**B**) day of the experiment.

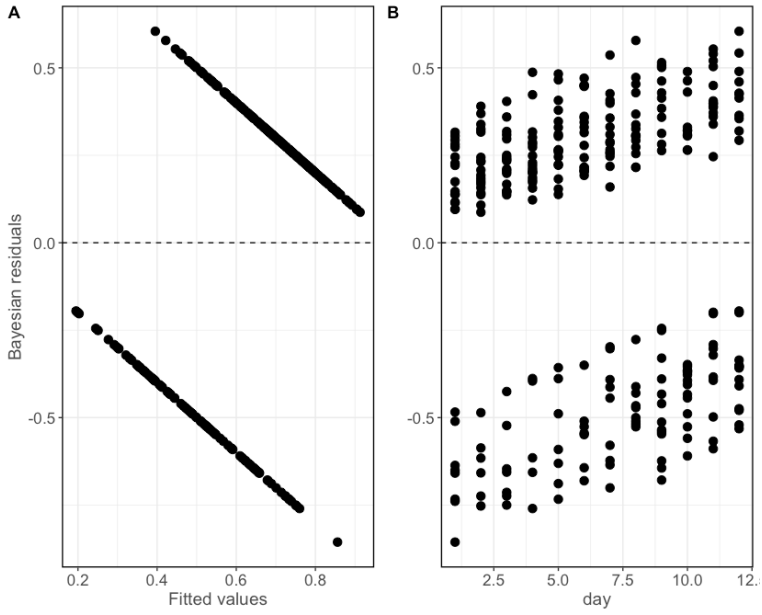

FIG. S4. Bayesian residuals for the the zero-truncated part of the zero-adjusted generalized Poisson GLMM. Residuals plotted against: (**A**) fitted values, (**B**) day of the experiment.

