

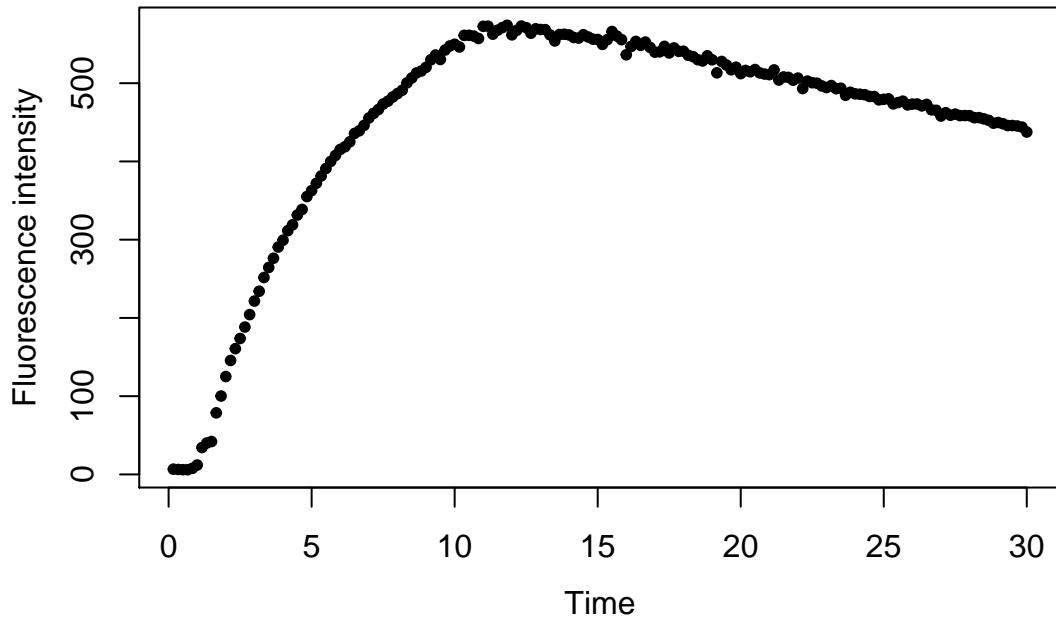
Analysis of individual stanfit objects

November 3, 2020

```
Rscript -vanilla -e 'pars <- commandArgs(trailingOnly=TRUE); rmarkdown::render(input = "R_markdown/Analysis_of_individual_stanfit_objects.Rmd", output_format = "pdf_document", knit_root_dir = getwd(), output_file = paste0("pdf_files/Analysis_of_individual_stanfit_objects", pars[1], " ", pars[2], "", pars[3], ".pdf"), params = list(dataset = pars[1], model_type = pars[2], index_trajectory = as.numeric(pars[3])))' experimental_data_d2eGFP ODE 12
```

Dataset: experimental_data_eGFP, model type: ODE

Trajectory 27



	mean	se_mean	sd	5%	50%	95%	n_eff
theta[1]	0.087	0.028	0.056	0.029	0.082	0.151	4
theta[2]	1.520	0.018	2.118	0.024	0.612	6.070	13345
theta[3]	0.087	0.028	0.056	0.029	0.078	0.151	4
m0	203.987	1.889	209.505	3.897	132.411	632.999	12305
sigma	0.052	0.000	0.003	0.048	0.052	0.057	16092
scale	7.070	0.077	8.008	0.120	3.474	24.847	10687
offset	6.528	0.001	0.153	6.282	6.526	6.786	15618
t0	0.963	0.000	0.005	0.955	0.963	0.970	15308
prod_theta2_m0	211.170	5.335	567.892	4.927	35.156	1018.072	11331
prod_theta2_scale	6.522	0.220	19.378	0.193	0.926	31.454	7744
prod_m0_scale	1042.392	23.776	2257.361	20.133	199.231	5062.249	9014
prod_theta2_m0_scale	122.441	0.015	1.679	119.684	122.432	125.193	13066
x2_sim[180]	721.169	18.236	1941.114	16.821	120.146	3477.868	11330
		Rhat					
theta[1]	11.193						
theta[2]	1.000						

```
theta[3]           11.094
m0                1.000
sigma              1.000
scale              1.000
offset              1.000
t0                 1.000
prod_theta2_m0     1.000
prod_theta2_scale   1.001
prod_m0_scale      1.000
prod_theta2_m0_scale 1.000
x2_sim[180]        1.000
```

Divergences:

0 of 20000 iterations ended with a divergence.

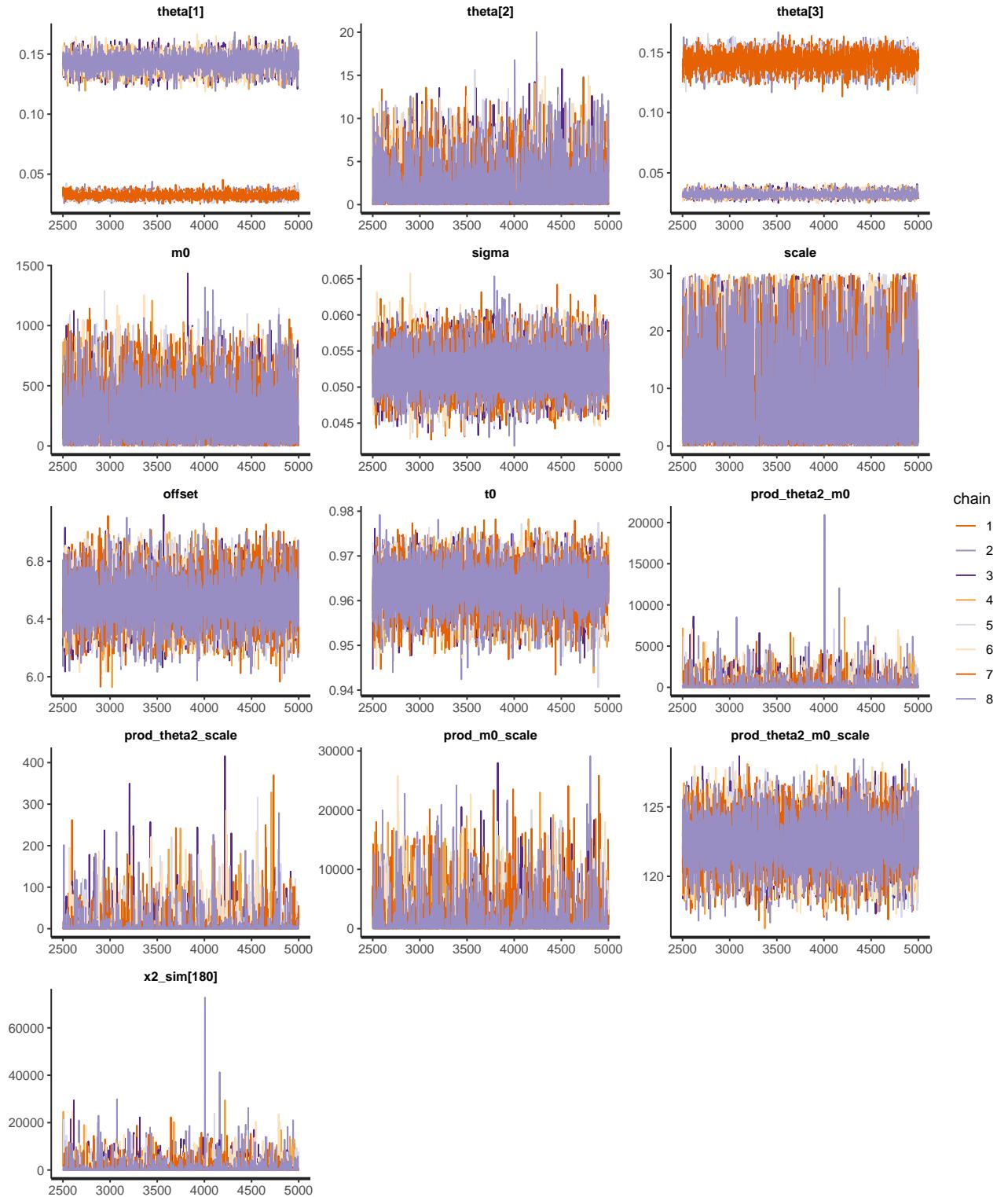
Tree depth:

0 of 20000 iterations saturated the maximum tree depth of 15.

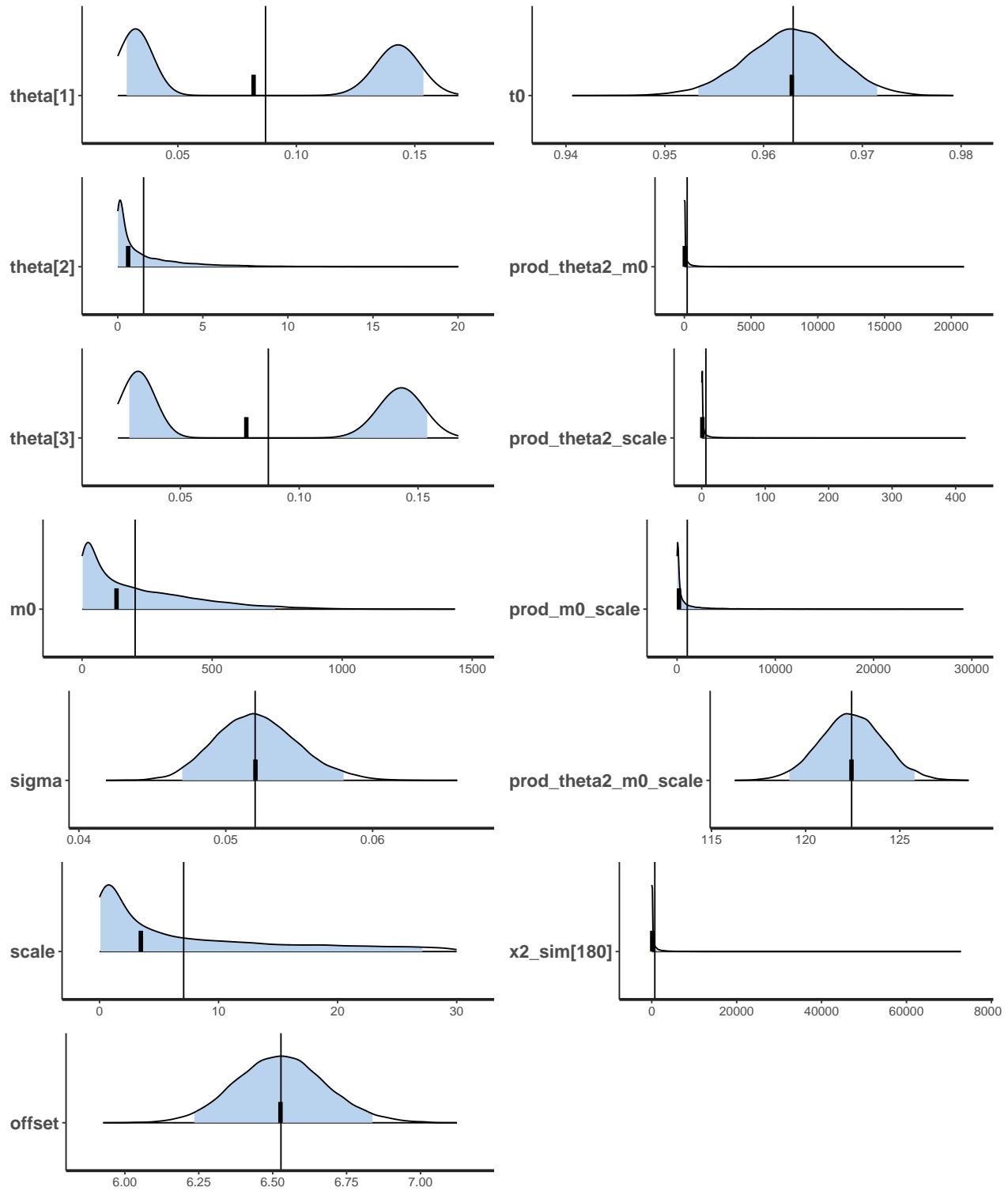
Energy:

E-BFMI indicated no pathological behavior.

Traceplots



Density plots with 95% CI and median



Pair plots

