

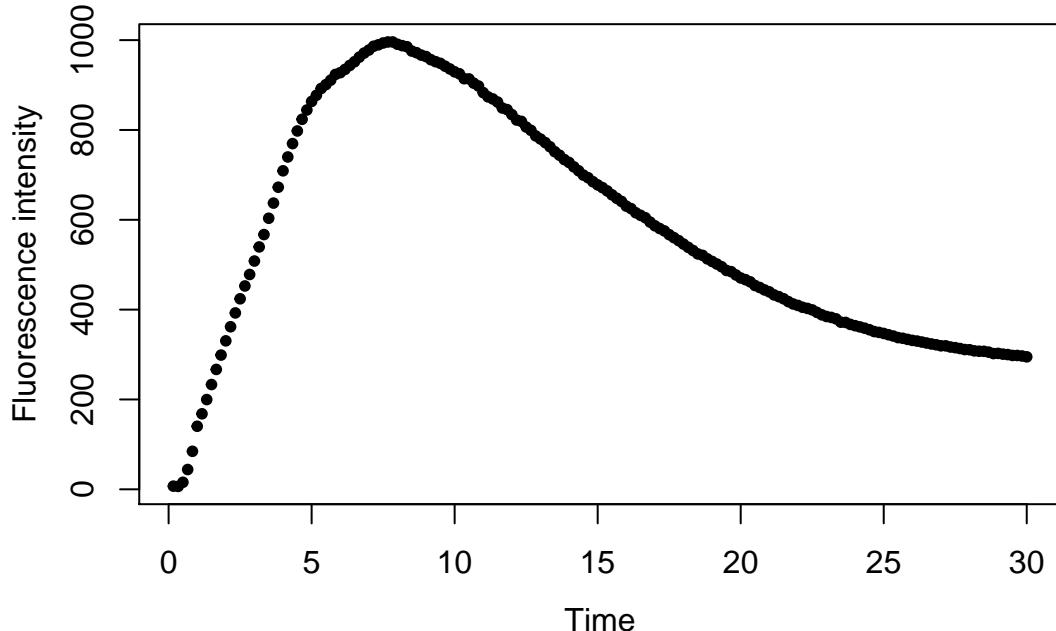
# Analysis of individual stanfit objects

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\_d2eGFP, model type: ODE**

**Trajectory 9**



	mean	se_mean	sd	5%	50%	95%	n_eff
theta[1]	0.144	0.032	0.065	0.075	0.130	0.223	4
theta[2]	1.741	0.020	2.166	0.056	0.854	6.378	11382
theta[3]	0.144	0.032	0.065	0.075	0.130	0.224	4
m0	225.368	2.009	214.181	7.787	160.452	652.839	11362
sigma	0.098	0.000	0.005	0.090	0.098	0.107	16361
scale	8.012	0.084	8.145	0.262	4.707	25.564	9441
offset	9.042	0.004	0.514	8.225	9.028	9.907	16609
t0	0.576	0.000	0.011	0.557	0.577	0.594	14591
prod_theta2_m0	275.028	5.748	600.312	12.933	69.715	1250.664	10908
prod_theta2_scale	8.948	0.256	20.939	0.504	2.050	42.507	6696
prod_m0_scale	1322.169	26.341	2458.364	51.561	385.996	5952.728	8710
prod_theta2_m0_scale	329.980	0.077	8.586	316.143	329.792	344.445	12304
x2_sim[180]	200.752	4.198	438.505	9.412	51.172	914.695	10913
			Rhat				
theta[1]		7.675					
theta[2]		1.000					

```
theta[3]          7.676
m0              1.000
sigma           1.000
scale            1.000
offset           1.000
t0              1.000
prod_theta2_m0   1.000
prod_theta2_scale 1.000
prod_m0_scale    1.001
prod_theta2_m0_scale 1.000
x2_sim[180]      1.000
```

Divergences:

0 of 20000 iterations ended with a divergence.

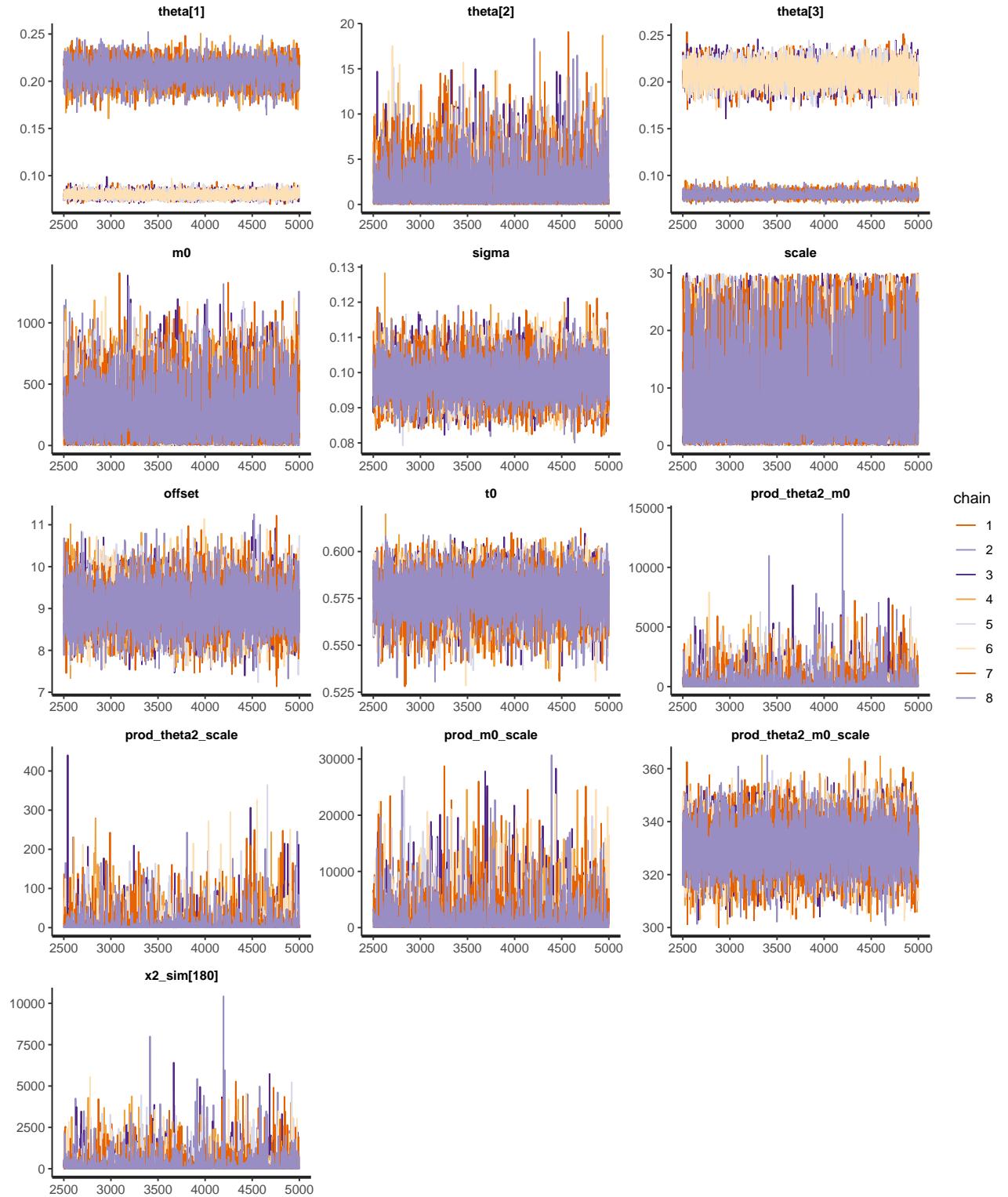
Tree depth:

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

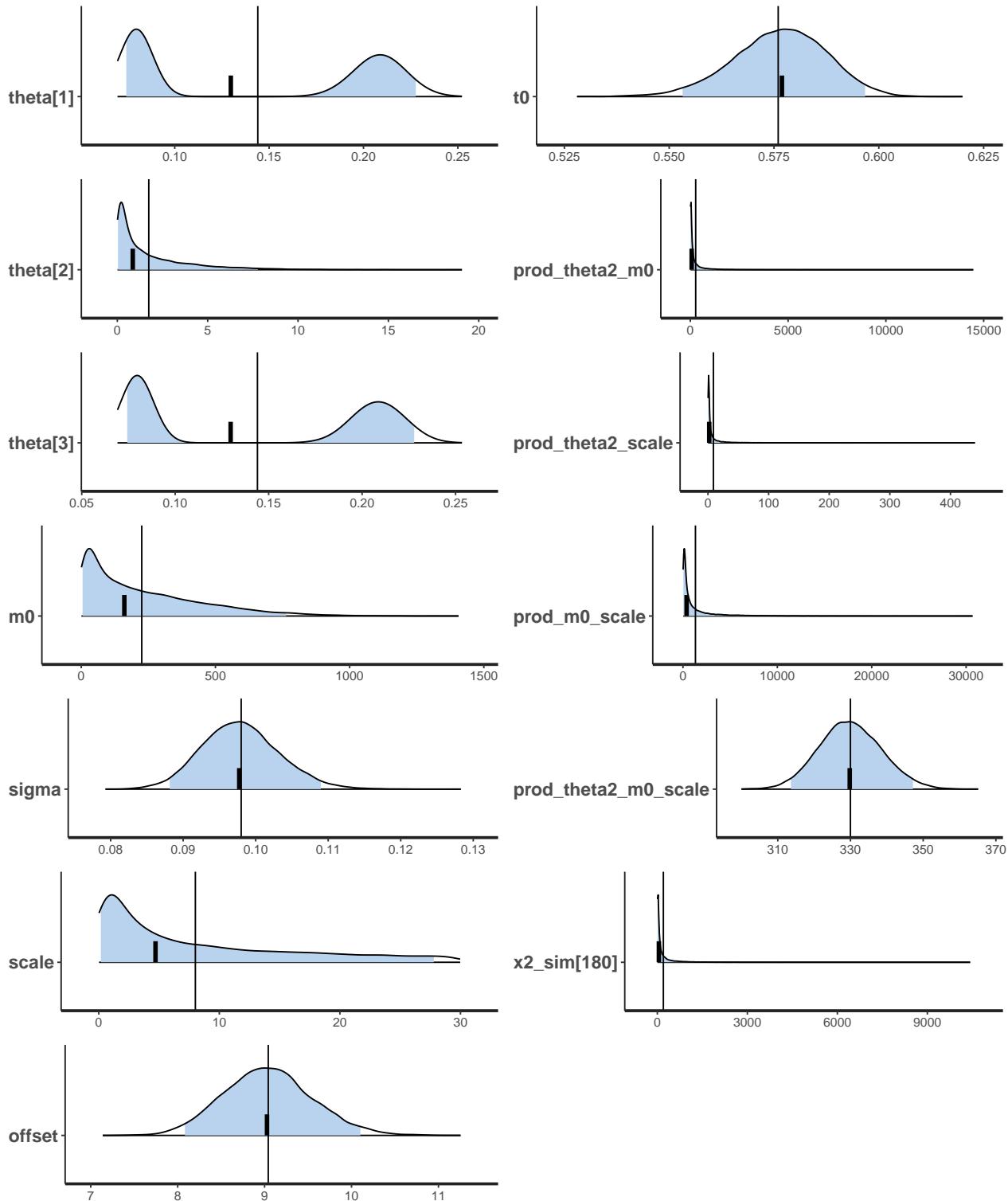
Energy:

E-BFMI indicated no pathological behavior.

## Traceplots



### Density plots with 95% CI and median



## Pair plots

