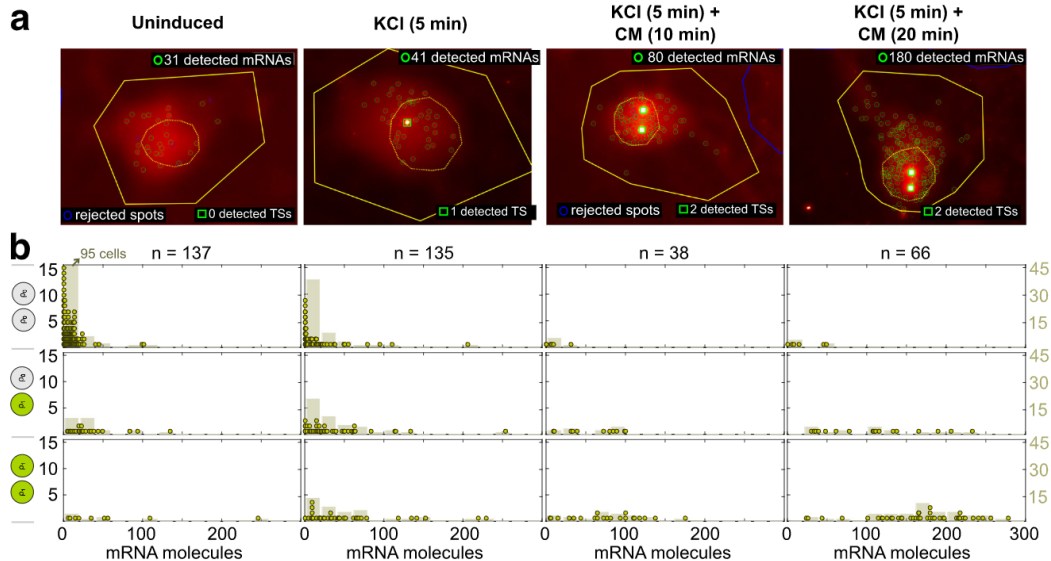


Bayesian inference of transcription dynamics from population snapshots of single-molecule RNA FISH in single cells

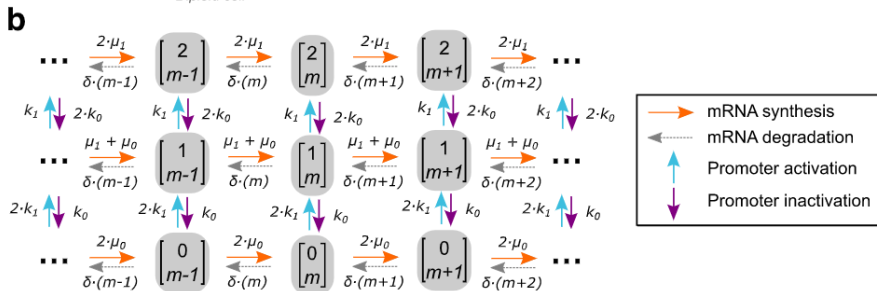
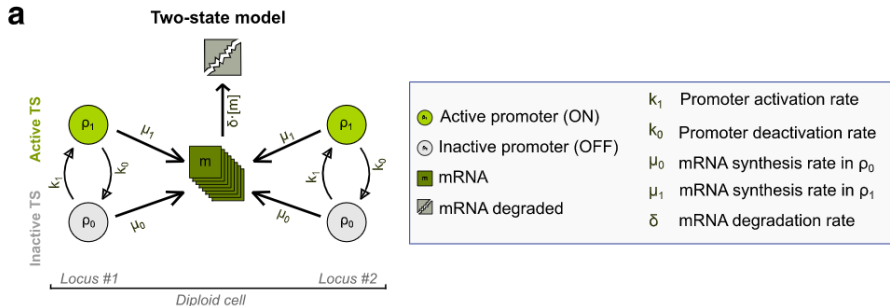
Clayton W. Seitz

July 31, 2022

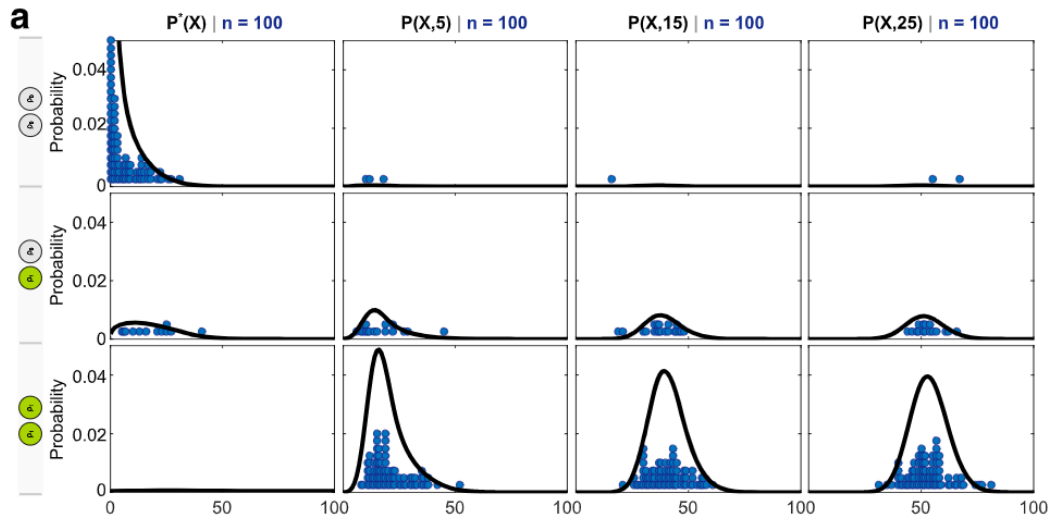
smFISH data of Npas4 mRNA in primary neurons after membrane depol.



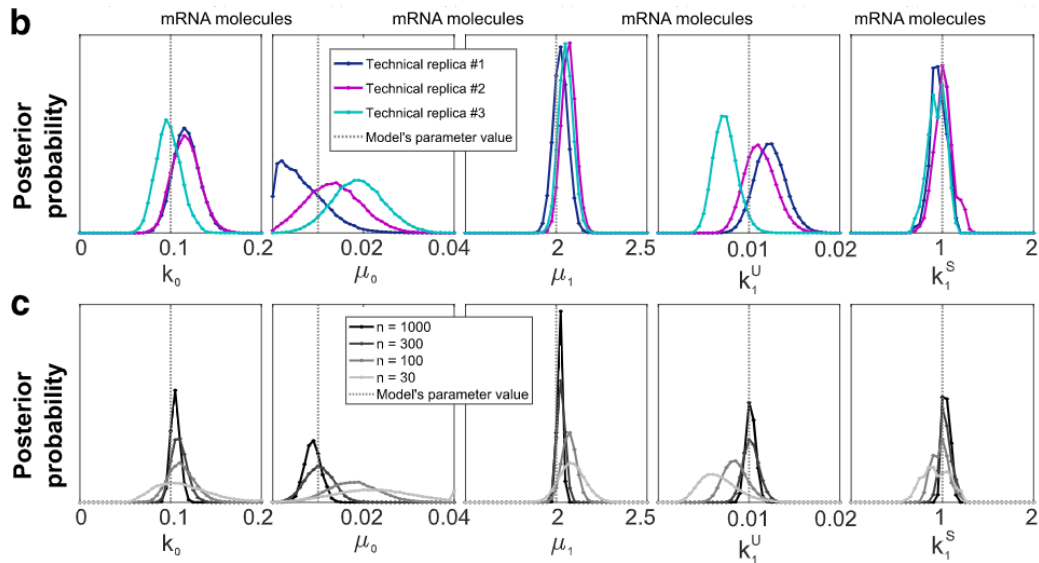
Two-state model of gene expression



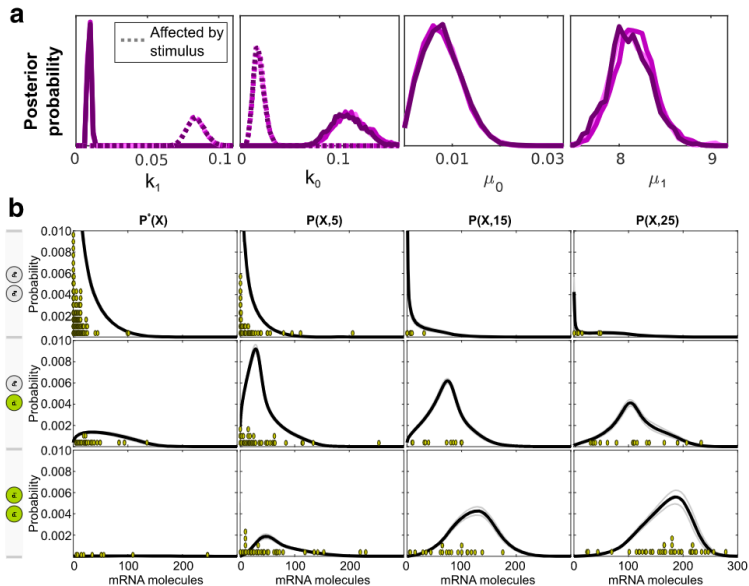
Validating BayFish on synthetic smFISH data



Validating BayFish on synthetic smFISH data



Model selection using BayFish and information criteria



Bayesian posterior distribution for (k_1, k_0) -stimulus model run on Npas4 data

