

MARCH 19th

ASSUMPTION

ignore miRNA dynamics \rightarrow assuming DNA goes right to protein
 K_{txn} may be misleading
b/c it's also

protein-DNA binding is fast
inducer & protein binding is fast } \therefore steady state
for activator \rightarrow Hill function

there's more activator than DNA
 \rightarrow amt bound activator is small
compared to total ~~total~~ activator

used ordinary differential equations
used Weiss' SynbioComposition in MATLAB
added a repressor } hill function to it
promoter

implemented (or at least tried to) a step
function mechanism to test the model