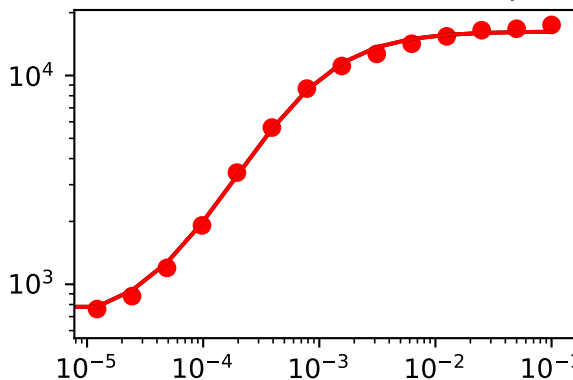
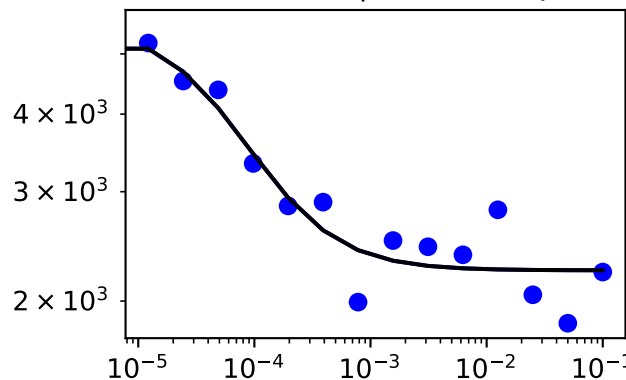


['SM data type data plots for mutation', 'Output5', 'using model:', 'model_hill.model']

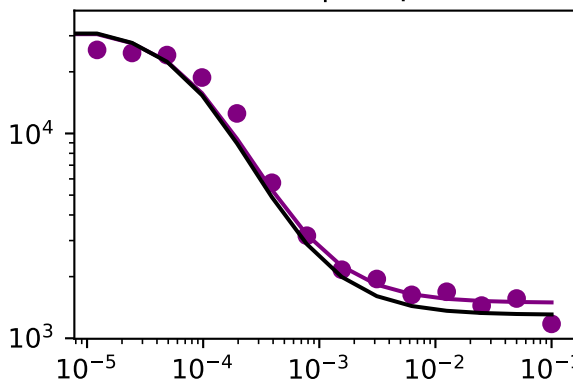
inducer -> sensor (GFP output)



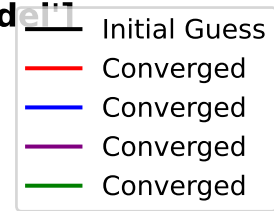
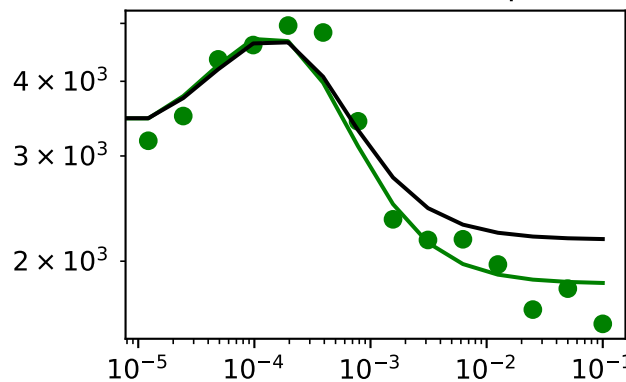
inducer -> S -| R (GFP output)



inducer -> S -| Output (GFP)



Full circuit with stripe



time elapsed for this fit
--- 2.528930187225342 seconds ---

Across all four plots:

RSS (converged)=0.114

RSS (initial)=0.184

RSS (% reduction)=0.617

	epsilon	Initial_guesses	Converged
A_s	0.000000	650.714912	6.507149e+02
B_s	0.000000	16259.979950	1.625998e+04
C_s	0.000000	1296.448889	1.296449e+03
N_s	0.000000	1.154067	1.154067e+00
A_r	0.000000	2020.019216	2.020019e+03
B_r	0.000000	23688.809187	2.368881e+04
C_r	0.000000	0.010358	1.035760e-02
N_r	0.000000	0.910072	9.100723e-01
A_h	0.000000	143.802212	1.438022e+02
B_h	0.000000	50238.271408	5.023827e+04
C_h	0.000000	0.000929	9.291293e-04
A_o	-1.673894	1.673894	2.095938e-11
B_o	1.197827	0.895342	2.093169e+00
C_o	-0.209032	2.657699	2.448666e+00
N_o	-0.057067	1.379953	1.322885e+00
F_o	-1.414144	2.361284	9.471402e-01

message: Optimization terminated successfully.
success: True
status: 0
fun: 0.11373412864672598
x: [6.507e+02 1.626e+04 ... 1.323e+00 9.471e-01]
nit: 839
nfev: 1206
final_simplex: (array([[6.507e+02, 1.626e+04, ..., 1.323e+00,
9.471e-01],
[6.507e+02, 1.626e+04, ..., 1.323e+00,
9.471e-01],
...,
[6.507e+02, 1.626e+04, ..., 1.323e+00,
9.472e-01],
[6.507e+02, 1.626e+04, ..., 1.323e+00,
9.472e-01]]), array([1.137e-01, 1.137e-01, ..., 1.137e-01, 1.137e-01]))