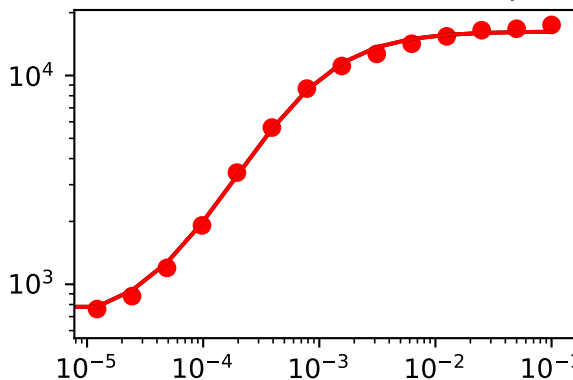
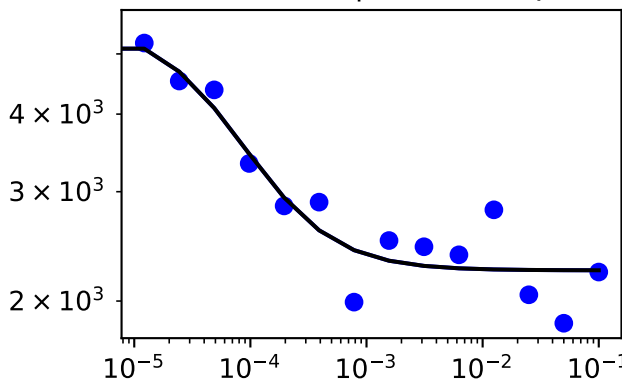


['SM data type data plots for mutation', 'Output8', 'using model:', 'model_hill.model']

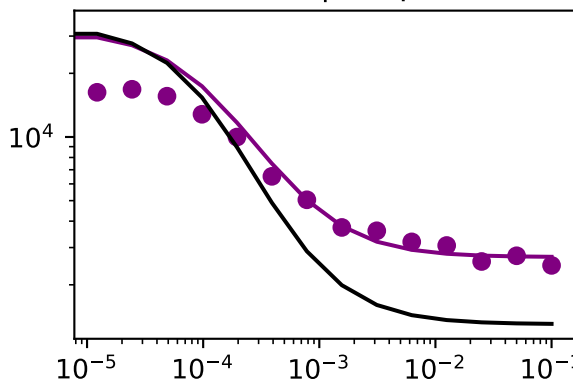
inducer -> sensor (GFP output)



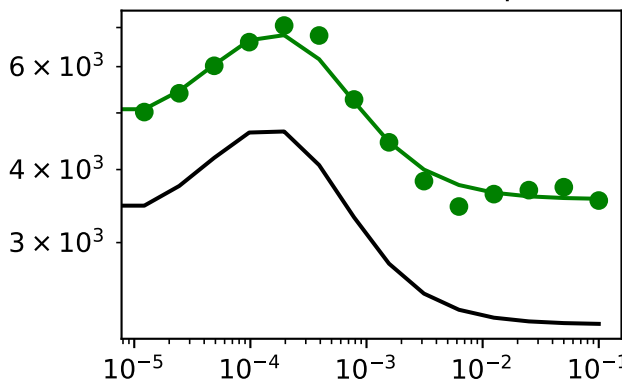
inducer -> S -| R (GFP output)



inducer -> S -| Output (GFP)



Full circuit with stripe



- Initial Guess
- Converged
- Converged
- Converged
- Converged

time elapsed for this fit
--- 4.522092819213867 seconds ---

Across all four plots:

RSS (converged)=0.293

RSS (initial)=1.614

RSS (% reduction)=0.847

	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	3.398519e-12
B_o	1.982757	0.895342	2.878099e+00
C_o	0.401899	2.657699	3.059598e+00
N_o	-0.302841	1.379953	1.077112e+00
F_o	-1.667465	2.361284	6.938192e-01

message: Optimization terminated successfully.
success: True
status: 0
fun: 0.29266827610948054
x: [6.507e+02 1.626e+04 ... 1.077e+00 6.938e-01]
nit: 1516
nfev: 2150
final_simplex: (array([[6.507e+02, 1.626e+04, ..., 1.077e+00, 6.938e-01],
[6.507e+02, 1.626e+04, ..., 1.077e+00, 6.938e-01],
...,
[6.507e+02, 1.626e+04, ..., 1.077e+00, 6.938e-01],
[6.507e+02, 1.626e+04, ..., 1.077e+00, 6.938e-01]]), array([2.927e-01, 2.927e-01, ..., 2.927e-01, 2.927e-01]))