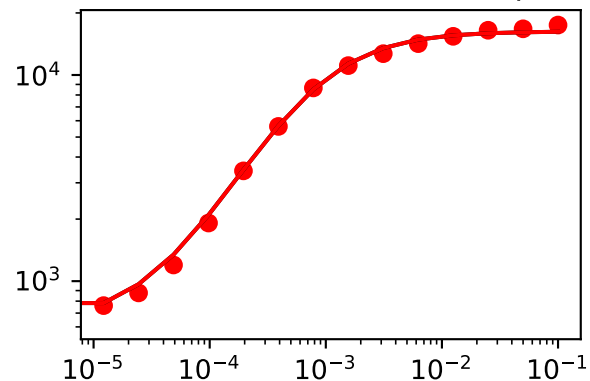
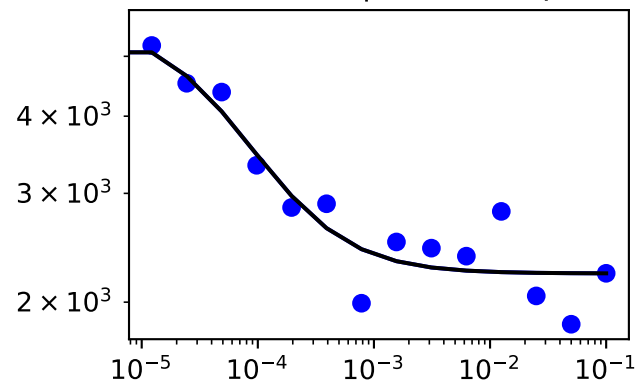


# ['SM data type data plots for mutation', 'Output6']

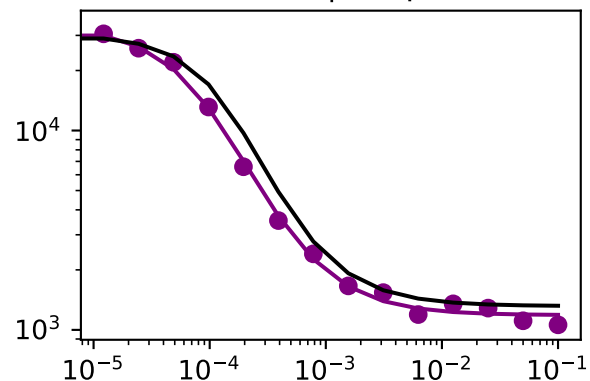
inducer -> sensor (GFP output)



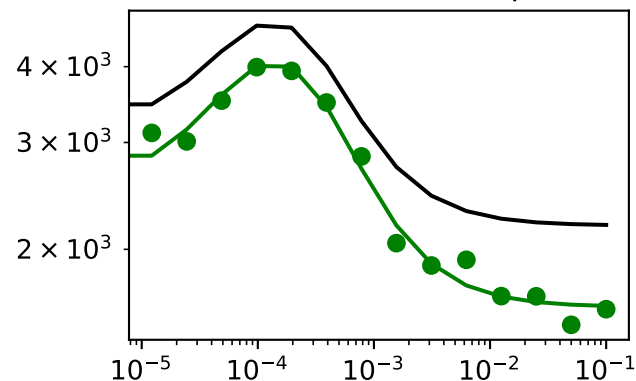
inducer -> S -| R (GFP output)



inducer -> S -| Output (GFP)



Full circuit with stripe



Across all four plots:

RSS (converged)=0.063

RSS (initial)=0.298

RSS (% reduction)=0.825

	epsilon	Initial_guesses	Converged
A_s	0.000000	618.047086	618.047086
B_s	0.000000	16278.856600	16278.856600
C_s	0.000000	1300.653790	1300.653790
N_s	0.000000	1.096541	1.096541
A_r	0.000000	1916.175610	1916.175610
B_r	0.000000	18874.240800	18874.240800
C_r	0.000000	0.009030	0.009030
N_r	0.000000	0.820433	0.820433
A_h	-94.506277	683.835638	589.329361
B_h	12312.924100	32464.380200	44777.304300
C_h	0.000387	0.000473	0.000860
F_o	-0.817249	2.821352	2.004103
A_o	-0.352295	0.632148	0.279853
B_o	0.812006	0.972768	1.784774
C_o	0.094231	2.640174	2.734405
N_o	-0.288068	1.919339	1.631271

message: Optimization terminated successfully.  
 success: True  
 status: 0  
 fun: 0.06313552754175704  
 x: [ 6.180e+02 1.628e+04 ... 2.734e+00 1.631e+00]  
 nit: 1458  
 nfev: 2147  
 final\_simplex: (array([[ 6.180e+02, 1.628e+04, ..., 2.734e+00,  
 1.631e+00],  
 [ 6.180e+02, 1.628e+04, ..., 2.734e+00,  
 1.631e+00],  
 ...,  
 [ 6.180e+02, 1.628e+04, ..., 2.734e+00,  
 1.631e+00],  
 [ 6.180e+02, 1.628e+04, ..., 2.734e+00,  
 1.631e+00]]), array([ 6.314e-02, 6.314e-02, ..., 6.314e-02, 6.314e-02]))