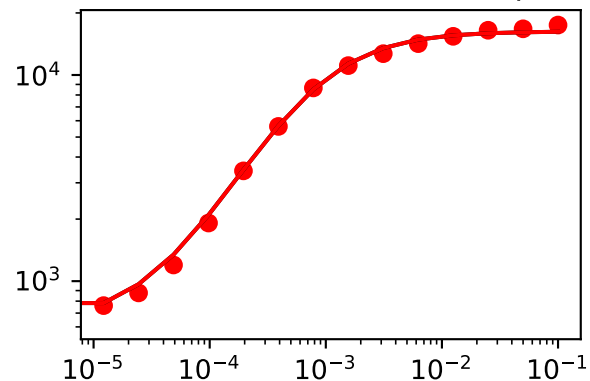
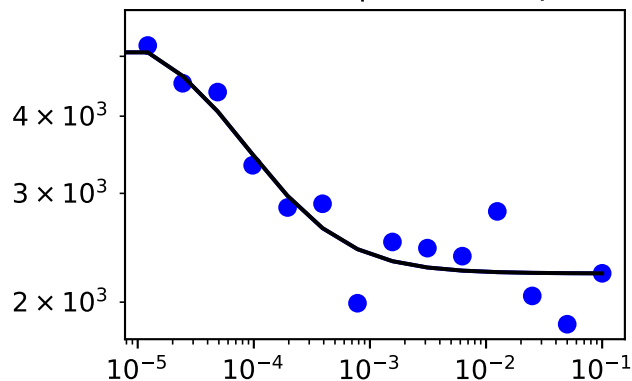


# ['SM data type data plots for mutation', 'Output3']

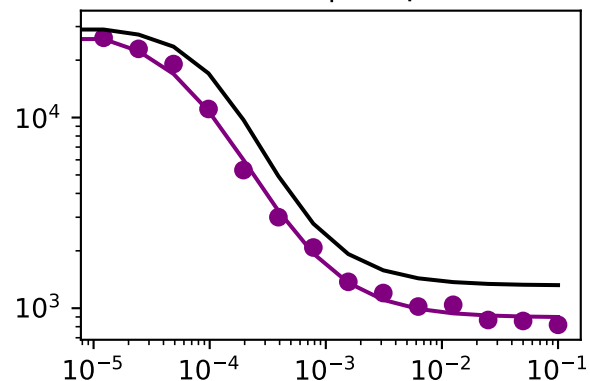
inducer -> sensor (GFP output)



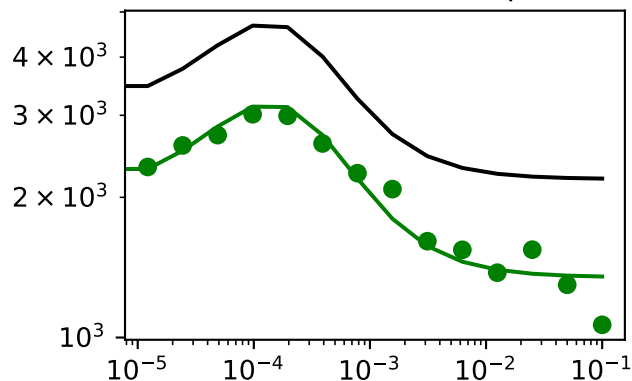
inducer -> S -| R (GFP output)



inducer -> S -| Output (GFP)



Full circuit with stripe



Across all four plots:

RSS (converged)=0.081

RSS (initial)=0.967

RSS (% reduction)=0.923

	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	-480.397499	683.835638	203.438139
B_h	13568.493962	32464.380200	46032.874162
C_h	0.000621	0.000473	0.001094
F_o	-1.755305	2.821352	1.066047
A_o	0.335994	0.632148	0.968142
B_o	1.456591	0.972768	2.429359
C_o	0.083639	2.640174	2.723813
N_o	-0.466661	1.919339	1.452678

message: Optimization terminated successfully.  
 success: True  
 status: 0  
 fun: 0.08061825902581492  
 x: [ 6.180e+02 1.628e+04 ... 2.724e+00 1.453e+00]  
 nit: 2133  
 nfev: 3049  
 final\_simplex: (array([[ 6.180e+02, 1.628e+04, ..., 2.724e+00,  
 1.453e+00],  
 [ 6.180e+02, 1.628e+04, ..., 2.724e+00,  
 1.453e+00],  
 ...,  
 [ 6.180e+02, 1.628e+04, ..., 2.724e+00,  
 1.453e+00],  
 [ 6.180e+02, 1.628e+04, ..., 2.724e+00,  
 1.453e+00]]), array([ 8.062e-02, 8.062e-02, ..., 8.062e-02, 8.062e-02]))