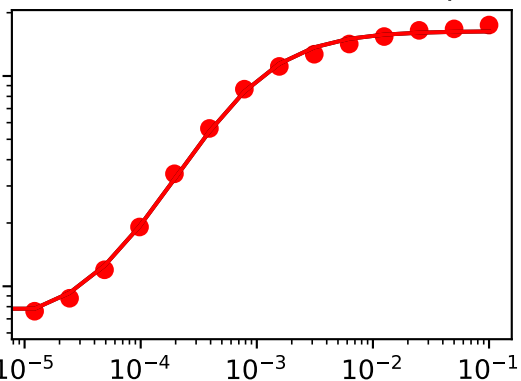
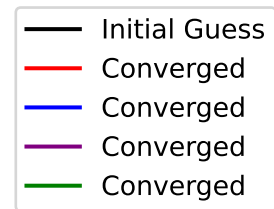
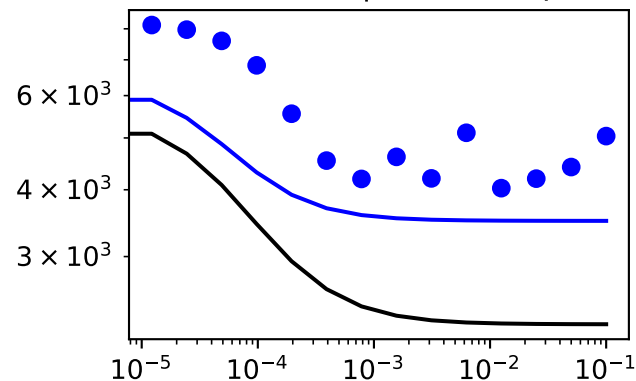


# ['SM data type data plots for mutation', 'Regulator2']

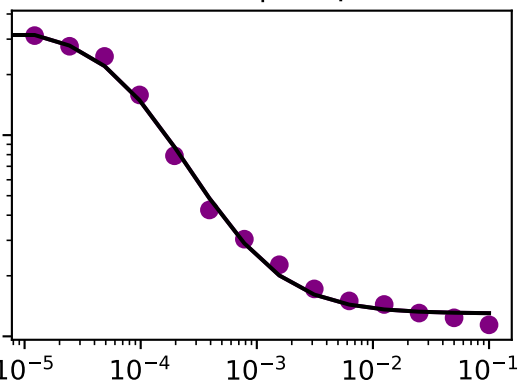
inducer -> sensor (GFP output)



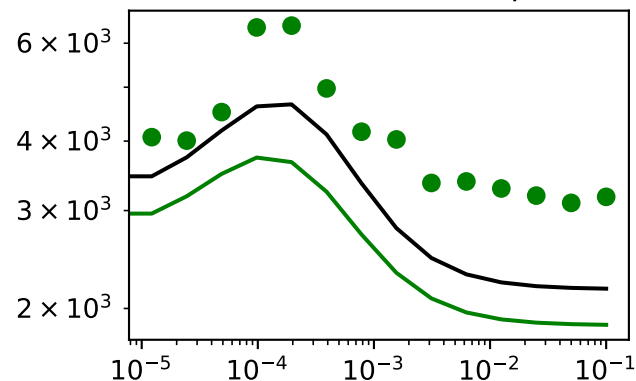
inducer -> S -| R (GFP output)



inducer -> S -| Output (GFP)



Full circuit with stripe



Across all four plots:

RSS (converged)=0.897

RSS (initial)=1.376

RSS (% reduction)=0.605

	epsilon	Initial_guesses	Converged
A_s	0.000000e+00	6.599635e+02	6.599635e+02
B_s	0.000000e+00	1.634714e+04	1.634714e+04
C_s	0.000000e+00	1.259256e+03	1.259256e+03
N_s	0.000000e+00	1.160440e+00	1.160440e+00
A_r	1.420581e+03	1.998310e+03	3.418891e+03
B_r	3.791201e+11	2.040009e+11	5.831209e+11
C_r	-2.740125e+06	2.771808e+06	3.168299e+04
N_r	2.947622e-01	8.375226e-01	1.132285e+00
A_h	0.000000e+00	5.477878e-06	5.477878e-06
B_h	0.000000e+00	6.710814e+04	6.710814e+04
C_h	0.000000e+00	1.412943e-03	1.412943e-03
A_o	0.000000e+00	5.414338e+07	5.414338e+07
B_o	0.000000e+00	2.126439e+00	2.126439e+00
C_o	0.000000e+00	2.720605e+00	2.720605e+00
N_o	0.000000e+00	1.250443e+00	1.250443e+00

message: Maximum number of iterations has been exceeded.

success: False

status: 2

fun: 0.8966611975416376

x: [ 6.600e+02 1.635e+04 ... 2.721e+00 1.250e+00]

nit: 100000

nfev: 1670893

final\_simplex: (array([[ 6.600e+02, 1.635e+04, ..., 2.721e+00,  
1.250e+00],  
[ 6.600e+02, 1.635e+04, ..., 2.721e+00,  
1.250e+00],  
...,  
[ 6.600e+02, 1.635e+04, ..., 2.721e+00,  
1.250e+00],  
[ 6.600e+02, 1.635e+04, ..., 2.721e+00,  
1.250e+00]]), array([ 8.967e-01, 8.967e-01, ..., 8.967e-01, 8.967e-01]))