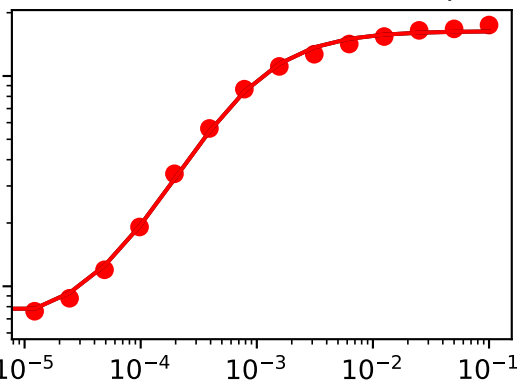
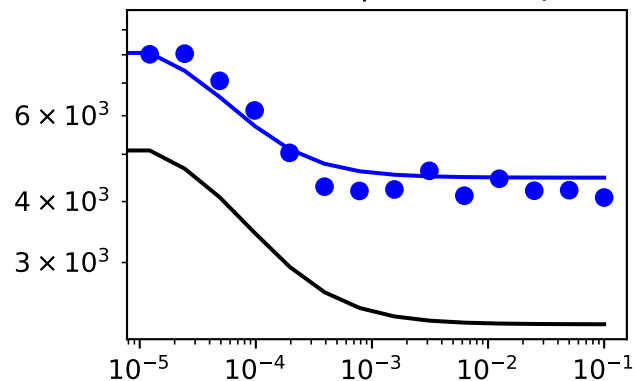


['SM data type data plots for mutation', 'Regulator10']

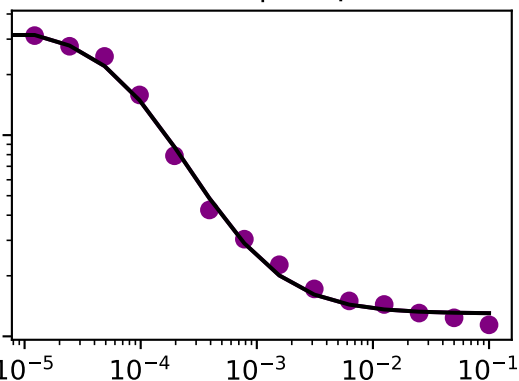
inducer -> sensor (GFP output)



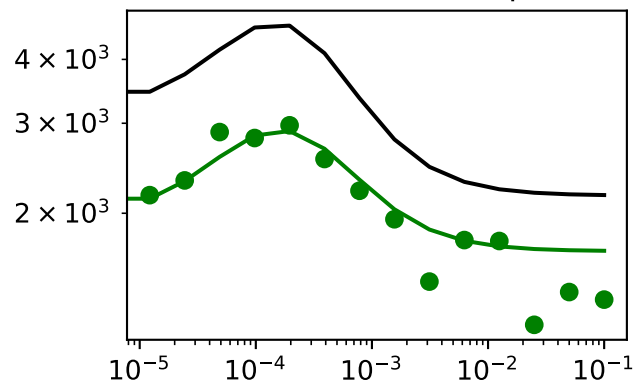
inducer -> S -| R (GFP output)



inducer -> S -| Output (GFP)



Full circuit with stripe



Across all four plots:

RSS (converged)=0.09

RSS (initial)=1.527

RSS (% reduction)=0.944

	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	2.352515e+03	1.998310e+03	4.350825e+03
B_r	5.969791e+10	2.040009e+11	2.636988e+11
C_r	-2.756820e+06	2.771808e+06	1.498810e+04
N_r	2.730421e-01	8.375226e-01	1.110565e+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: Optimization terminated successfully.

success: True

status: 0

fun: 0.09034363604000119

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

nit: 2503

nfev: 3922

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([9.034e-02, 9.034e-02, ..., 9.034e-02, 9.034e-02]))