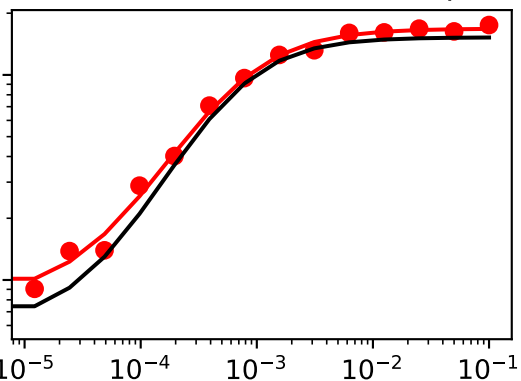
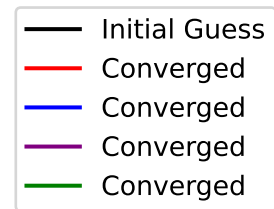
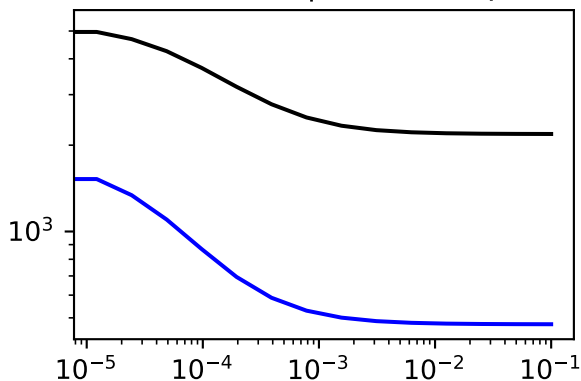


['SM data type data plots for mutation', 'Sensor2']

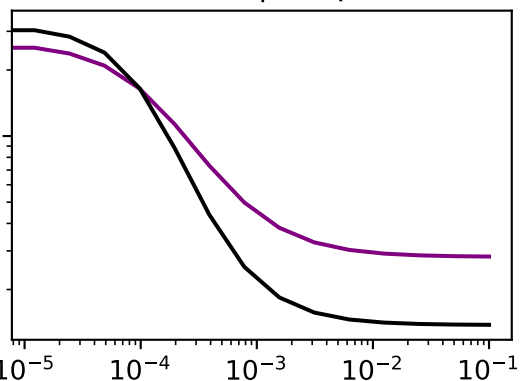
inducer -> sensor (GFP output)



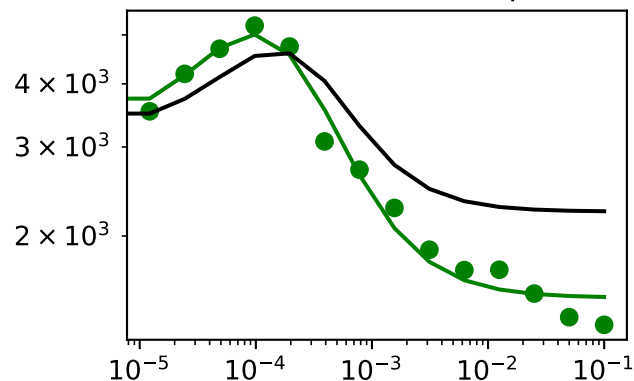
inducer -> S -| R (GFP output)



inducer -> S -| Output (GFP)



Full circuit with stripe



Across all four plots:

RSS (converged)=0.033

RSS (initial)=0.312

RSS (% reduction)=0.906

| | epsilon | Initial_guesses | Converged |
|-----|--------------|-----------------|--------------|
| A_s | 216.487435 | 608.397103 | 824.884538 |
| B_s | 1570.137550 | 15250.457700 | 16820.595250 |
| C_s | -122.003682 | 1668.059050 | 1546.055368 |
| N_s | -0.084200 | 1.198934 | 1.114733 |
| A_r | -292.364203 | 687.964693 | 395.600490 |
| B_r | 24294.950900 | 23497.611400 | 47792.562300 |
| C_r | -0.013504 | 0.062367 | 0.048863 |
| N_r | 0.562106 | 0.391731 | 0.953837 |
| A_h | 75.912449 | 590.606548 | 666.518997 |
| B_h | -4134.360070 | 35287.125700 | 31152.765630 |
| C_h | -0.000147 | 0.000530 | 0.000383 |
| A_o | -0.829749 | 0.829830 | 0.000081 |
| B_o | -3.438343 | 4.288170 | 0.849828 |
| C_o | 2.439040 | 3.133222 | 5.572262 |
| N_o | -0.412616 | 1.809018 | 1.396403 |

message: Optimization terminated successfully.

success: True

status: 0

fun: 0.032529027027081193

x: [8.249e+02 1.682e+04 ... 5.572e+00 1.396e+00]

nit: 12157

nfev: 16117

final_simplex: (array([[8.249e+02, 1.682e+04, ..., 5.572e+00, 1.396e+00],
[8.249e+02, 1.682e+04, ..., 5.572e+00, 1.396e+00],
...,
[8.249e+02, 1.682e+04, ..., 5.572e+00, 1.396e+00],
[8.249e+02, 1.682e+04, ..., 5.572e+00, 1.396e+00]]), array([3.253e-02, 3.253e-02, ..., 3.253e-02, 3.253e-02]))