['SM data type data plots for mutation', 'Sensor8']

Legend:
- Initial Guess (black)
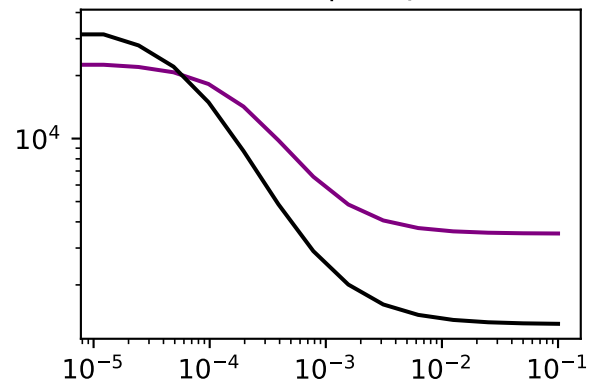- Converged (red)
- Converged (blue)
- Converged (purple)
- Converged (green)

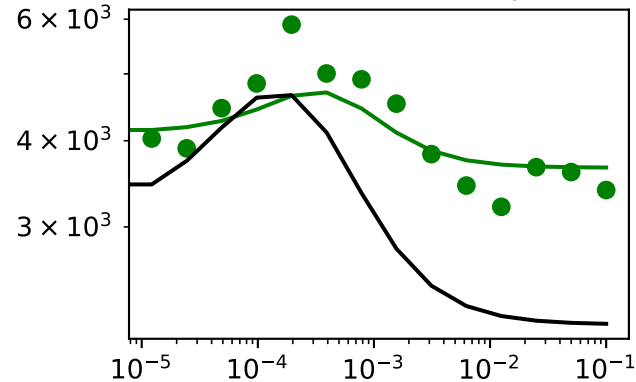Plot 1: inducer -> sensor (GFP output)
Plot 2: inducer ->S -|R (GFP output)
Plot 3: inducer -> S -| Output (GFP)
Plot 4: Full circuit with stripe
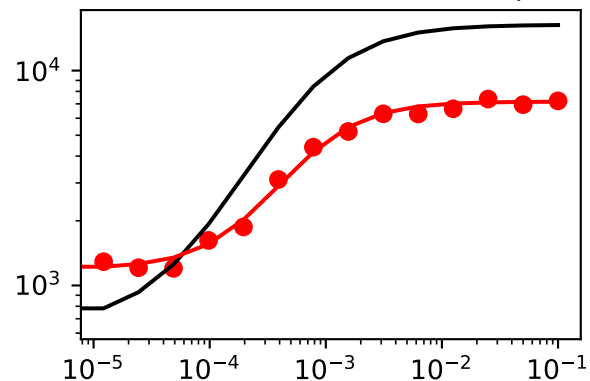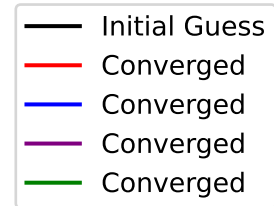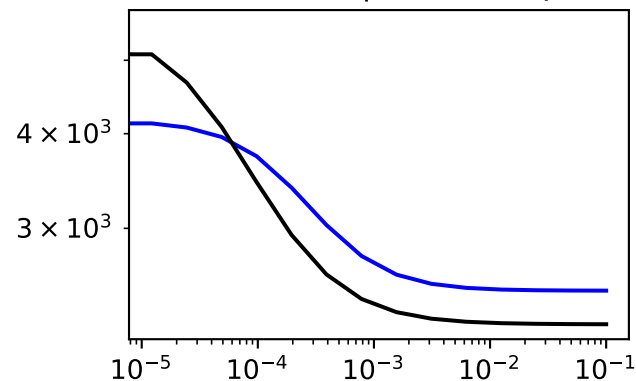
Across all four plots:

RSS (converged)=0.04

RSS (initial)=1.572

RSS (% reduction)=0.975

	epsilon	Initial_guesses	Converged
A_s	537.513478	6.599635e+02	1.197477e+03
B_s	-9175.590685	1.634714e+04	7.171549e+03
C_s	17.082716	1.259256e+03	1.276339e+03
N_s	0.157601	1.160440e+00	1.318041e+00
A_r	0.000000	1.998310e+03	1.998310e+03
B_r	0.000000	2.040009e+11	2.040009e+11
C_r	0.000000	2.771808e+06	2.771808e+06
N_r	0.000000	8.375226e-01	8.375226e-01
A_h	0.000000	5.477878e-06	5.477878e-06
B_h	0.000000	6.710814e+04	6.710814e+04
C_h	0.000000	1.412943e-03	1.412943e-03
A_o	0.000000	5.414338e+07	5.414338e+07
B_o	0.000000	2.126439e+00	2.126439e+00
C_o	0.000000	2.720605e+00	2.720605e+00
N_o	0.000000	1.250443e+00	1.250443e+00

message: Optimization terminated successfully.
success: True
 status: 0
    fun: 0.04009579248094687
      x: [1.197e+03 7.172e+03 ... 2.721e+00 1.250e+00]
    nit: 695
   nfev: 1095
final_simplex: (array([[1.197e+03, 7.172e+03, ..., 2.721e+00,
          1.250e+00],
        [1.197e+03, 7.172e+03, ..., 2.721e+00,
          1.250e+00],
        ...,
        [1.197e+03, 7.172e+03, ..., 2.721e+00,
          1.250e+00],
        [1.197e+03, 7.172e+03, ..., 2.721e+00,
          1.250e+00]]), array([4.010e-02, 4.010e-02, ..., 4.010e-02, 4.010e-02]))