['SM data type data plots for mutation', 'Regulator8', 'using model:', 'model']


inducer -> sensor (GFP output)

inducer ->S -|R (GFP output)

inducer -> S -| Output (GFP)

Full circuit with stripe

Legend: Initial Guess, Converged, Converged, Converged, Converged
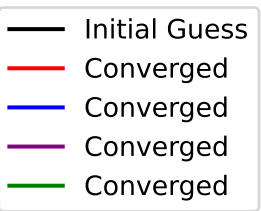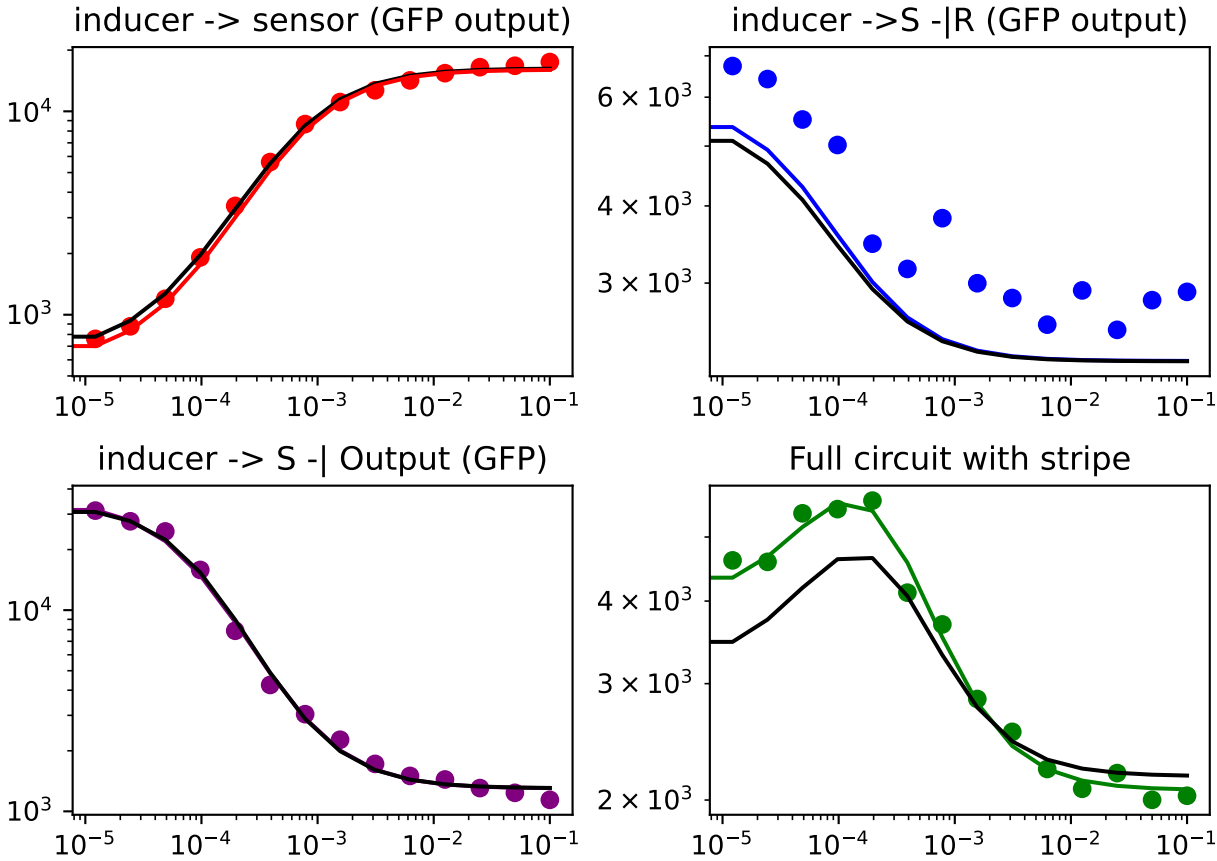
time elapsed for this fit
--- 149.82780051231384 seconds ---

Across all four plots:

RSS (converged)=0.213

RSS (initial)=0.285

RSS (% reduction)=0.572

	epsilon	Initial_guesses	Converged
A_s	-60.046104	650.714912	590.668808
B_s	-226.494489	16259.979950	16033.485460
C_s	-79.960576	1296.448889	1216.488313
N_s	0.017557	1.154067	1.171624
A_r	0.000000	2020.019216	2020.019216
B_r	0.000000	23688.809187	23688.809187
C_r	0.000000	0.010358	0.010358
N_r	0.000000	0.910072	0.910072
A_h	-143.540316	143.802212	0.261896
B_h	18367.598016	50238.271408	68605.869424
C_h	0.000706	0.000929	0.001635
A_o	31.743119	1.673894	33.417013
B_o	-0.785143	0.895342	0.110199
C_o	-0.856985	2.657699	1.800713
N_o	-0.171316	1.379953	1.208637
F_o	15.136410	2.361284	17.497693

message: Optimization terminated successfully.
success: True
 status: 0
    fun: 0.21322404164162714
      x: [5.907e+02 1.603e+04 ... 1.209e+00 1.750e+01]
    nit: 56015
   nfev: 72480
final_simplex: (array([[5.907e+02, 1.603e+04, ..., 1.209e+00,
          1.750e+01],
        [5.907e+02, 1.603e+04, ..., 1.209e+00,
          1.750e+01],
        ...,
        [5.907e+02, 1.603e+04, ..., 1.209e+00,
          1.750e+01],
        [5.907e+02, 1.603e+04, ..., 1.209e+00,
          1.750e+01]]), array([2.132e-01, 2.132e-01, ..., 2.132e-01, 2.132e-01]))