['SM data type data plots for mutation', 'Output9', 'using model:', 'model_hill.model_2']

inducer -> sensor (GFP output)

inducer ->S -|R (GFP output)

Initial Guess
Converged
Converged
Converged
Converged
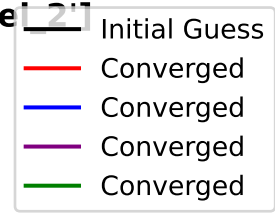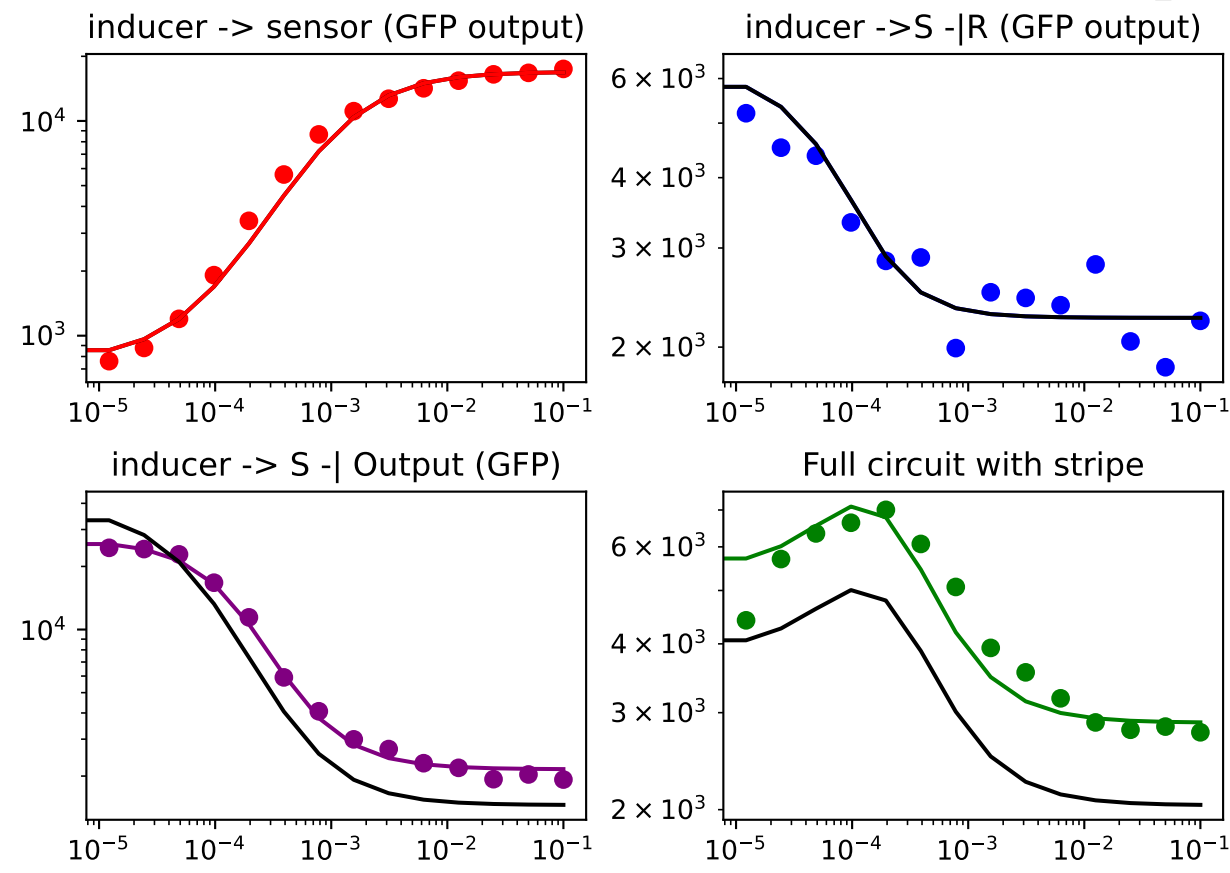
time elapsed for this fit
--- 7.300182104110718 seconds ---

inducer -> S -| Output (GFP)

Full circuit with stripe

Across all four plots:

RSS (converged)=0.125

RSS (initial)=0.797

RSS (% reduction)=0.864

message: Optimization terminated successfully.
success: True
status: 0
fun: 0.12494149818944142
x: [7.672e+02 1.694e+04 ... 1.688e+00 1.401e+00]
nit: 2421
nfev: 3521
final_simplex: (array([[7.672e+02, 1.694e+04, ..., 1.688e+00,
             1.401e+00],
           [7.672e+02, 1.694e+04, ..., 1.688e+00,
             1.401e+00],
           ...,
           [7.672e+02, 1.694e+04, ..., 1.688e+00,
             1.401e+00],
           [7.672e+02, 1.694e+04, ..., 1.688e+00,
             1.401e+00]]), array([1.249e-01, 1.249e-01, ..., 1.249e-01, 1.249e-01]))

	epsilon	Initial_guesses	Converged
A_s	0.000000e+00	7.671584e+02	767.158409
B_s	0.000000e+00	1.694202e+04	16942.019302
C_s	0.000000e+00	8.969736e+02	896.973585
N_s	0.000000e+00	1.151182e+00	1.151182
A_r	0.000000e+00	2.229804e+03	2229.803862
B_r	0.000000e+00	8.961652e+03	8961.651645
C_r	0.000000e+00	1.461384e-03	0.001461
N_r	0.000000e+00	1.841235e+00	1.841235
A_o	6.270787e+02	9.859837e+02	1613.062324
B_o	-1.798190e+07	1.801530e+07	33401.578797
C_o	-1.003797e-01	1.010522e-01	0.000672
N_o	2.696657e-01	1.417996e+00	1.687661
F_o	-7.658866e-02	1.477611e+00	1.401022