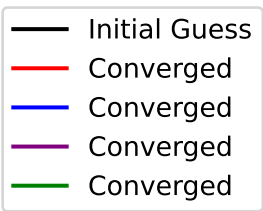
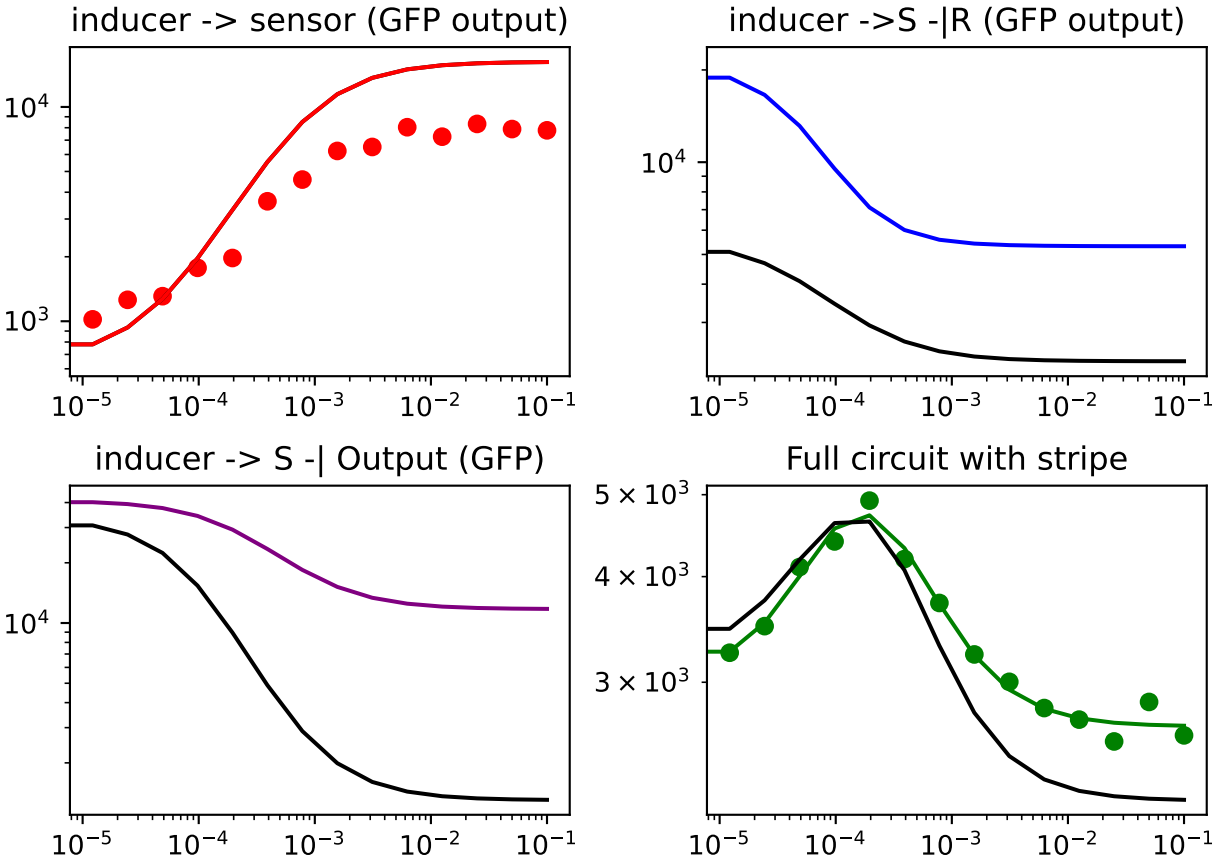


['SM data type data plots for mutation', 'Sensor4', 'using model:', 'model']



time elapsed for this fit
--- 13.455730199813843 seconds ---

Across all four plots:

RSS (converged)=0.871

RSS (initial)=0.925

RSS (% reduction)=0.515

	epsilon	Initial_guesses	Converged
A_s	0.000000	650.714912	650.714912
B_s	0.000000	16259.979950	16259.979950
C_s	0.000000	1296.448889	1296.448889
N_s	0.000000	1.154067	1.154067
A_r	3166.710972	2020.019216	5186.730188
B_r	6312.055209	23688.809187	30000.864396
C_r	-0.008939	0.010358	0.001419
N_r	0.820970	0.910072	1.731042
A_h	35.992852	143.802212	179.795064
B_h	-5613.615629	50238.271408	44624.655779
C_h	-0.000763	0.000929	0.000167
A_o	1.760951	1.673894	3.434846
B_o	-0.205187	0.895342	0.690155
C_o	-1.878614	2.657699	0.779084
N_o	-0.324734	1.379953	1.055219
F_o	-1.994945	2.361284	0.366339

message: Optimization terminated successfully.
success: True
status: 0
fun: 0.8714162231910737
x: [6.507e+02 1.626e+04 ... 1.055e+00 3.663e-01]
nit: 5190
nfev: 7042
final_simplex: (array([[6.507e+02, 1.626e+04, ..., 1.055e+00,
3.663e-01],
[6.507e+02, 1.626e+04, ..., 1.055e+00,
3.663e-01],
...,
[6.507e+02, 1.626e+04, ..., 1.055e+00,
3.663e-01],
[6.507e+02, 1.626e+04, ..., 1.055e+00,
3.663e-01]]), array([8.714e-01, 8.714e-01, ..., 8.714e-01, 8.714e-01]))