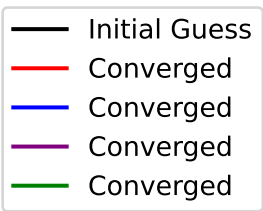
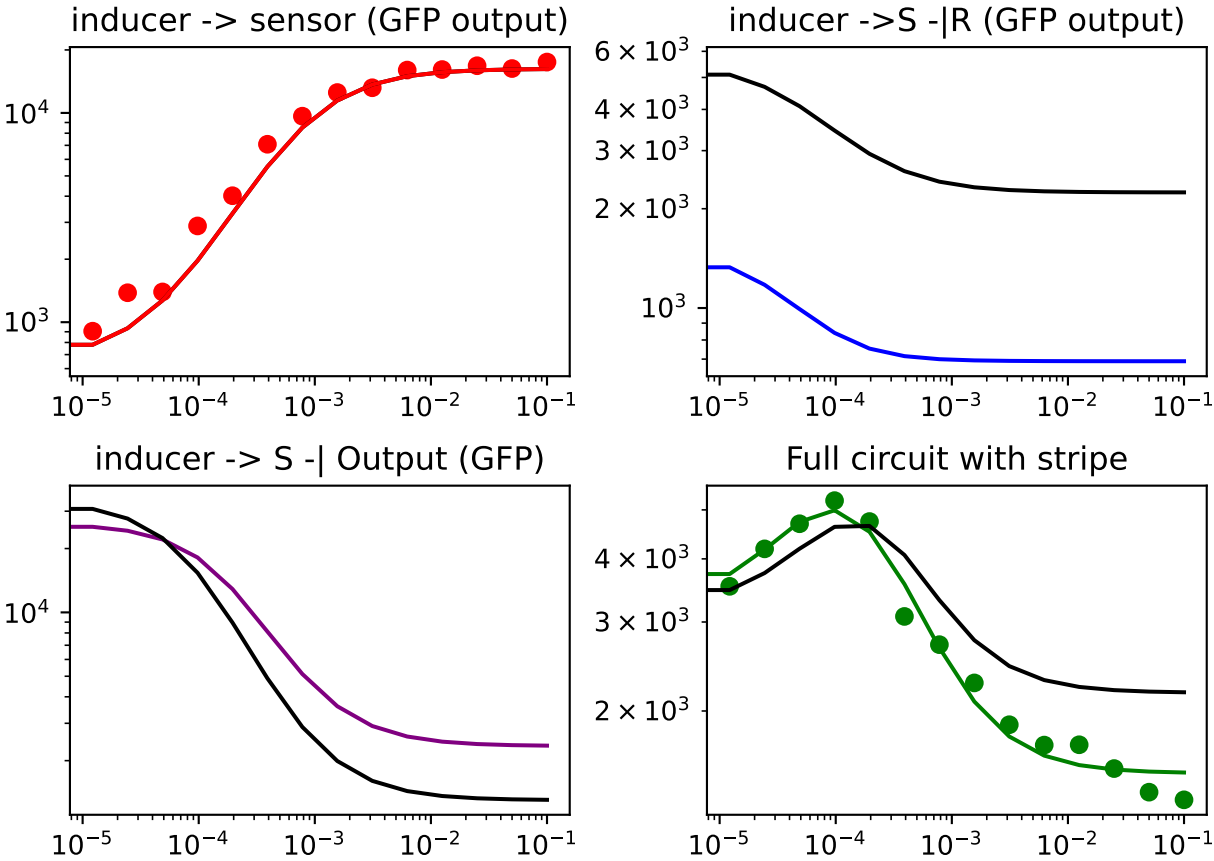


['SM data type data plots for mutation', 'Sensor2', 'using model:', 'model']



time elapsed for this fit
--- 16.974259853363037 seconds ---

Across all four plots:

RSS (converged)=0.12

RSS (initial)=0.295

RSS (% reduction)=0.711

	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	-1335.820745	2020.019216	684.198471
B_r	-14995.993692	23688.809187	8692.815495
C_r	-0.004108	0.010358	0.006250
N_r	0.683801	0.910072	1.593873
A_h	-143.788059	143.802212	0.014154
B_h	-20293.667944	50238.271408	29944.603464
C_h	-0.000558	0.000929	0.000371
A_o	0.752950	1.673894	2.426844
B_o	0.300063	0.895342	1.195405
C_o	4.440547	2.657699	7.098246
N_o	-0.007943	1.379953	1.372010
F_o	-1.608237	2.361284	0.753046

message: Optimization terminated successfully.
success: True
status: 0
fun: 0.1197352048915372
x: [6.507e+02 1.626e+04 ... 1.372e+00 7.530e-01]
nit: 6595
nfev: 8921
final_simplex: (array([[6.507e+02, 1.626e+04, ..., 1.372e+00,
7.530e-01],
[6.507e+02, 1.626e+04, ..., 1.372e+00,
7.530e-01],
...,
[6.507e+02, 1.626e+04, ..., 1.372e+00,
7.530e-01],
[6.507e+02, 1.626e+04, ..., 1.372e+00,
7.530e-01]]), array([1.197e-01, 1.197e-01, ..., 1.197e-01, 1.197e-01]))