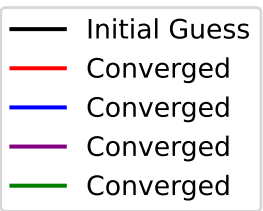
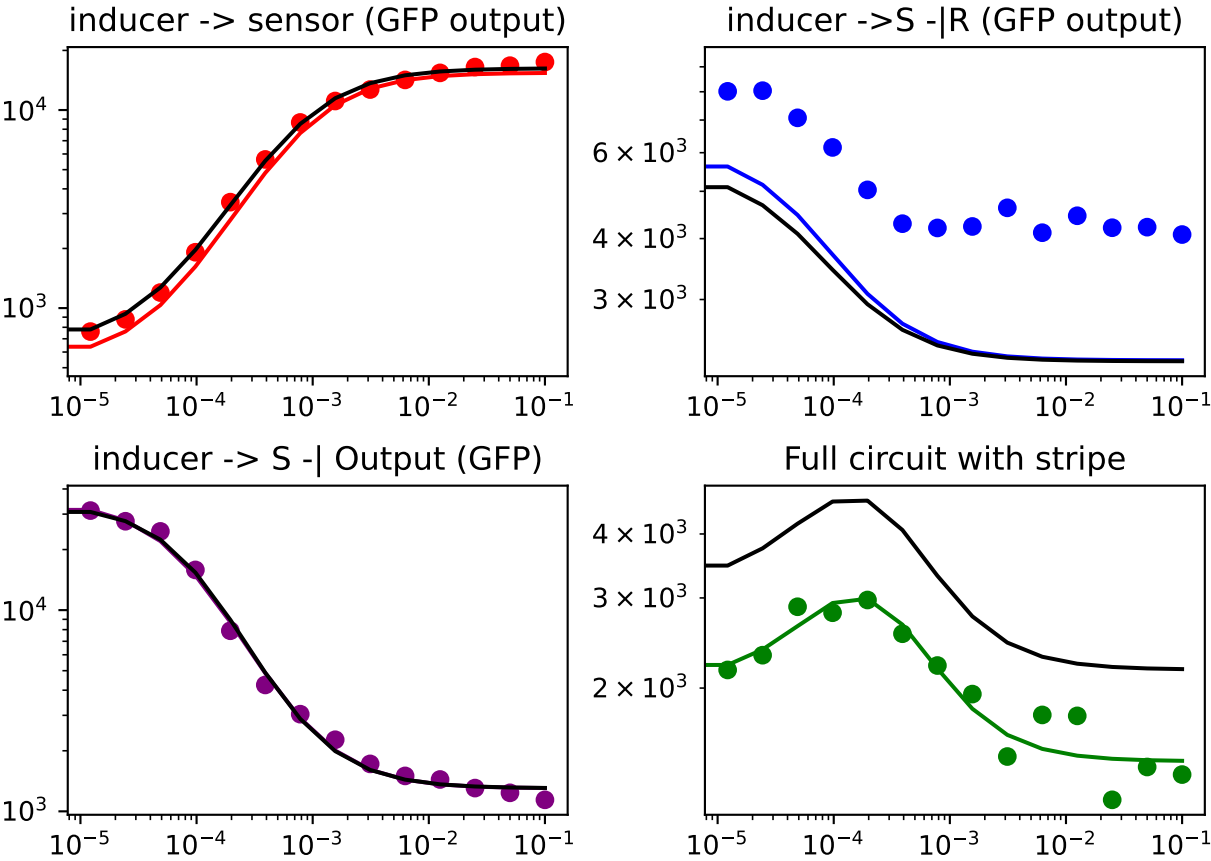


['SM data type data plots for mutation', 'Regulator10', 'using model:', 'model']



time elapsed for this fit
--- 48.92400097846985 seconds ---

Across all four plots:

RSS (converged)=0.946

RSS (initial)=1.527

RSS (% reduction)=0.618

	epsilon	Initial_guesses	Converged
A_s	-111.601696	650.714912	539.113216
B_s	-825.014772	16259.979950	15434.965178
C_s	-110.611845	1296.448889	1185.837044
N_s	0.027826	1.154067	1.181893
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	-140.930947	143.802212	2.871265
B_h	21075.526521	50238.271408	71313.797929
C_h	0.000984	0.000929	0.001913
A_o	17.644332	1.673894	19.318226
B_o	-0.713601	0.895342	0.181741
C_o	-0.511831	2.657699	2.145868
N_o	-0.201917	1.379953	1.178035
F_o	3.964223	2.361284	6.325507

message: Optimization terminated successfully.
success: True
status: 0
fun: 0.945661226946576
x: [5.391e+02 1.543e+04 ... 1.178e+00 6.326e+00]
nit: 18213
nfev: 23797
final_simplex: (array([[5.391e+02, 1.543e+04, ..., 1.178e+00, 6.326e+00],
[5.391e+02, 1.543e+04, ..., 1.178e+00, 6.326e+00],
...,
[5.391e+02, 1.543e+04, ..., 1.178e+00, 6.326e+00],
[5.391e+02, 1.543e+04, ..., 1.178e+00, 6.326e+00]]), array([9.457e-01, 9.457e-01, ..., 9.457e-01, 9.457e-01]))