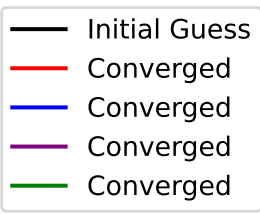
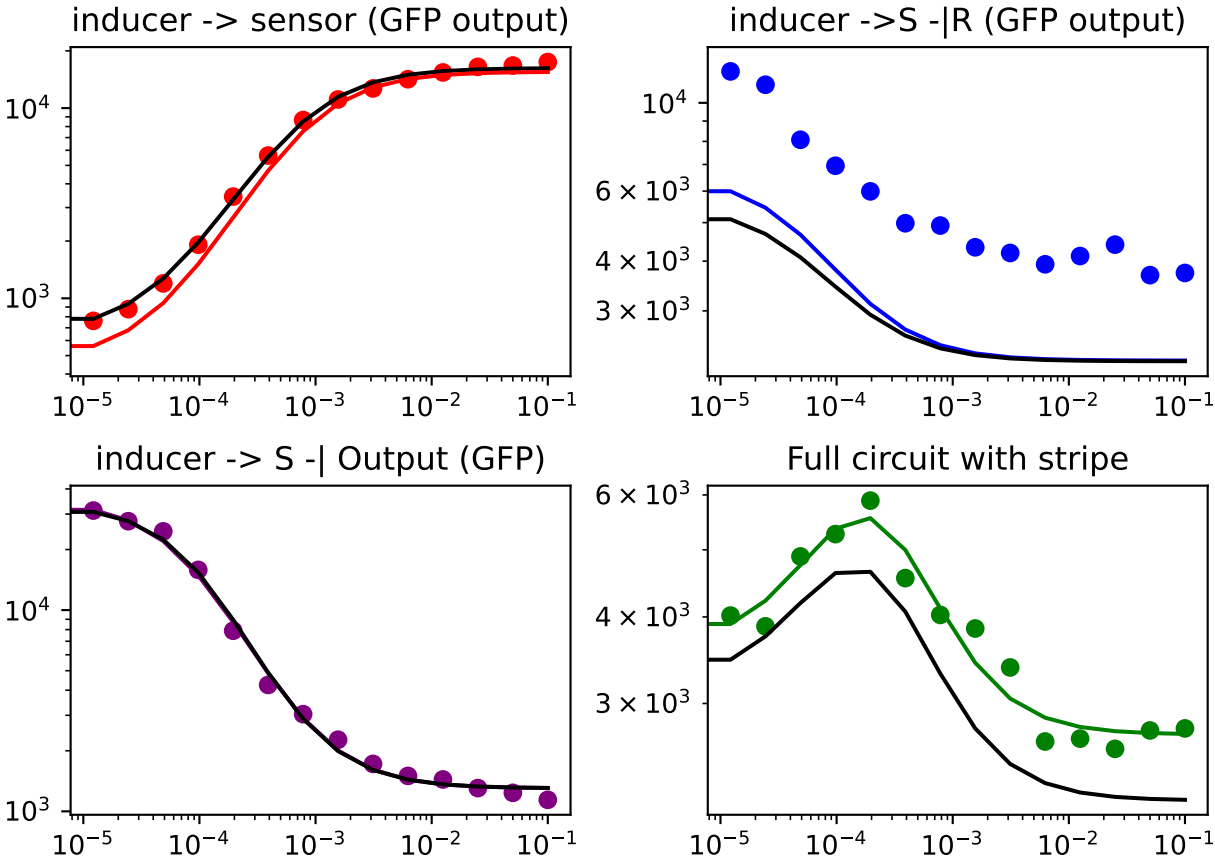


['SM data type data plots for mutation', 'Regulator4', 'using model:', 'model']



time elapsed for this fit
--- 176.43277311325073 seconds ---

Across all four plots:

RSS (converged)=1.219

RSS (initial)=1.446

RSS (% reduction)=0.543

	epsilon	Initial_guesses	Converged
A_s	-183.877239	650.714912	466.837673
B_s	-717.502248	16259.979950	15542.477702
C_s	-138.574897	1296.448889	1157.873991
N_s	0.036564	1.154067	1.190631
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	-142.204745	143.802212	1.597467
B_h	16257.789881	50238.271408	66496.061290
C_h	0.001025	0.000929	0.001955
A_o	613.891914	1.673894	615.565808
B_o	2.575911	0.895342	3.471253
C_o	-0.472733	2.657699	2.184966
N_o	-0.233070	1.379953	1.146882
F_o	-1.731059	2.361284	0.630225

message: Optimization terminated successfully.
success: True
status: 0
fun: 1.219416547322105
x: [4.668e+02 1.554e+04 ... 1.147e+00 6.302e-01]
nit: 59658
nfev: 77389
final_simplex: (array([[4.668e+02, 1.554e+04, ..., 1.147e+00, 6.302e-01],
[4.668e+02, 1.554e+04, ..., 1.147e+00, 6.302e-01],
[4.668e+02, 1.554e+04, ..., 1.147e+00, 6.302e-01],
...,
[4.668e+02, 1.554e+04, ..., 1.147e+00, 6.302e-01],
[4.668e+02, 1.554e+04, ..., 1.147e+00, 6.302e-01],
[4.668e+02, 1.554e+04, ..., 1.147e+00, 6.302e-01]]), array([1.219e+00, 1.219e+00, ..., 1.219e+00, 1.219e+00]))