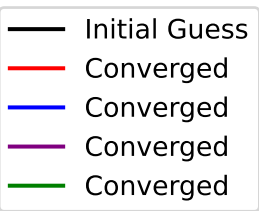
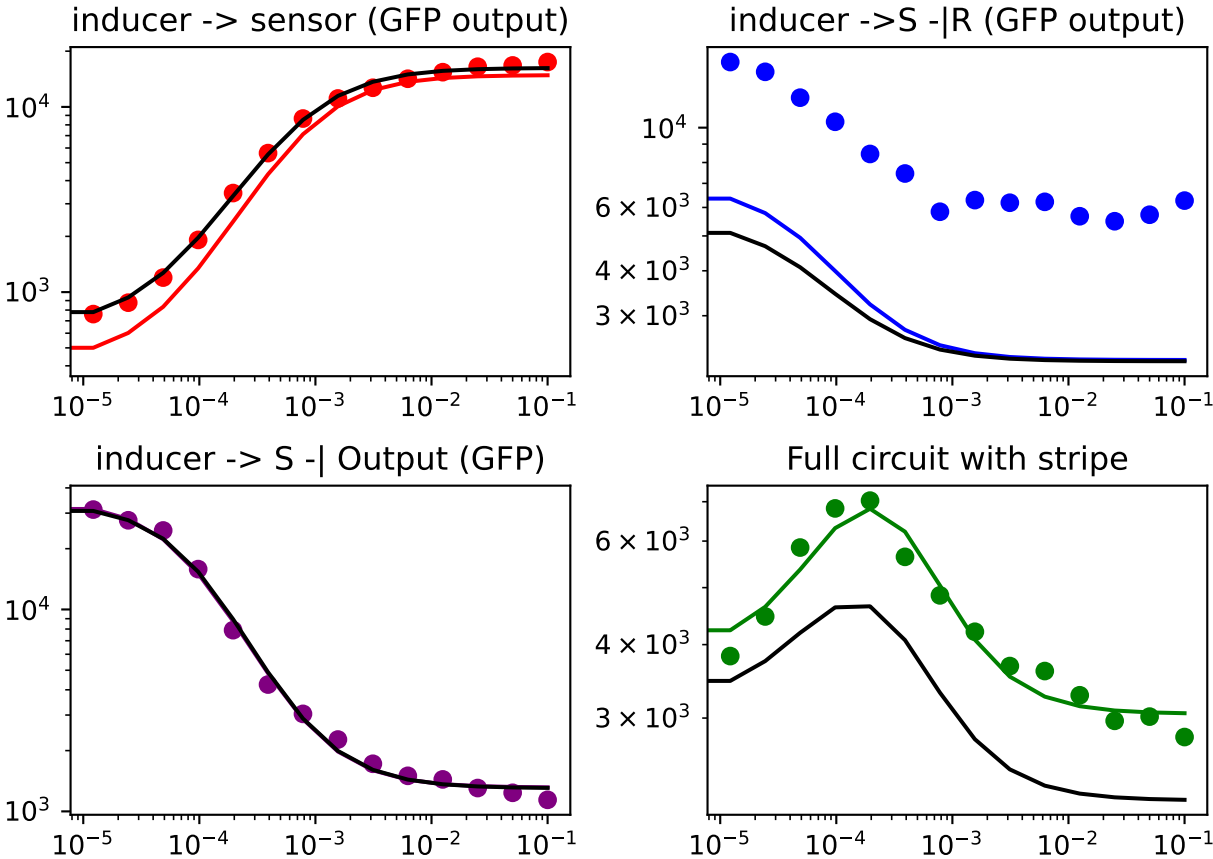


['SM data type data plots for mutation', 'Regulator9', 'using model:', 'model']



time elapsed for this fit
--- 12.741182327270508 seconds ---

Across all four plots:

RSS (converged)=2.705

RSS (initial)=3.258

RSS (% reduction)=0.546

	epsilon	Initial_guesses	Converged
A_s	-227.272961	650.714912	4.234420e+02
B_s	-1392.989053	16259.979950	1.486699e+04
C_s	-160.514665	1296.448889	1.135934e+03
N_s	0.067675	1.154067	1.221742e+00
A_r	0.000000	2020.019216	2.020019e+03
B_r	0.000000	23688.809187	2.368881e+04
C_r	0.000000	0.010358	1.035760e-02
N_r	0.000000	0.910072	9.100723e-01
A_h	-62.747936	143.802212	8.105428e+01
B_h	15828.273823	50238.271408	6.606655e+04
C_h	0.001253	0.000929	2.182483e-03
A_o	-1.673894	1.673894	3.107401e-12
B_o	0.162446	0.895342	1.057788e+00
C_o	-0.383309	2.657699	2.274390e+00
N_o	-0.240714	1.379953	1.139239e+00
F_o	0.906502	2.361284	3.267786e+00

message: Optimization terminated successfully.
success: True
status: 0
fun: 2.705193954915964
x: [4.234e+02 1.487e+04 ... 1.139e+00 3.268e+00]
nit: 4491
nfev: 5993
final_simplex: (array([[4.234e+02, 1.487e+04, ..., 1.139e+00, 3.268e+00],
[4.234e+02, 1.487e+04, ..., 1.139e+00, 3.268e+00],
...,
[4.234e+02, 1.487e+04, ..., 1.139e+00, 3.268e+00],
[4.234e+02, 1.487e+04, ..., 1.139e+00, 3.268e+00]]), array([2.705e+00, 2.705e+00, ..., 2.705e+00, 2.705e+00]))