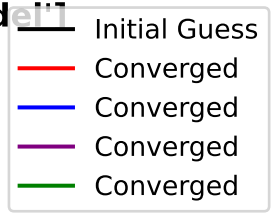
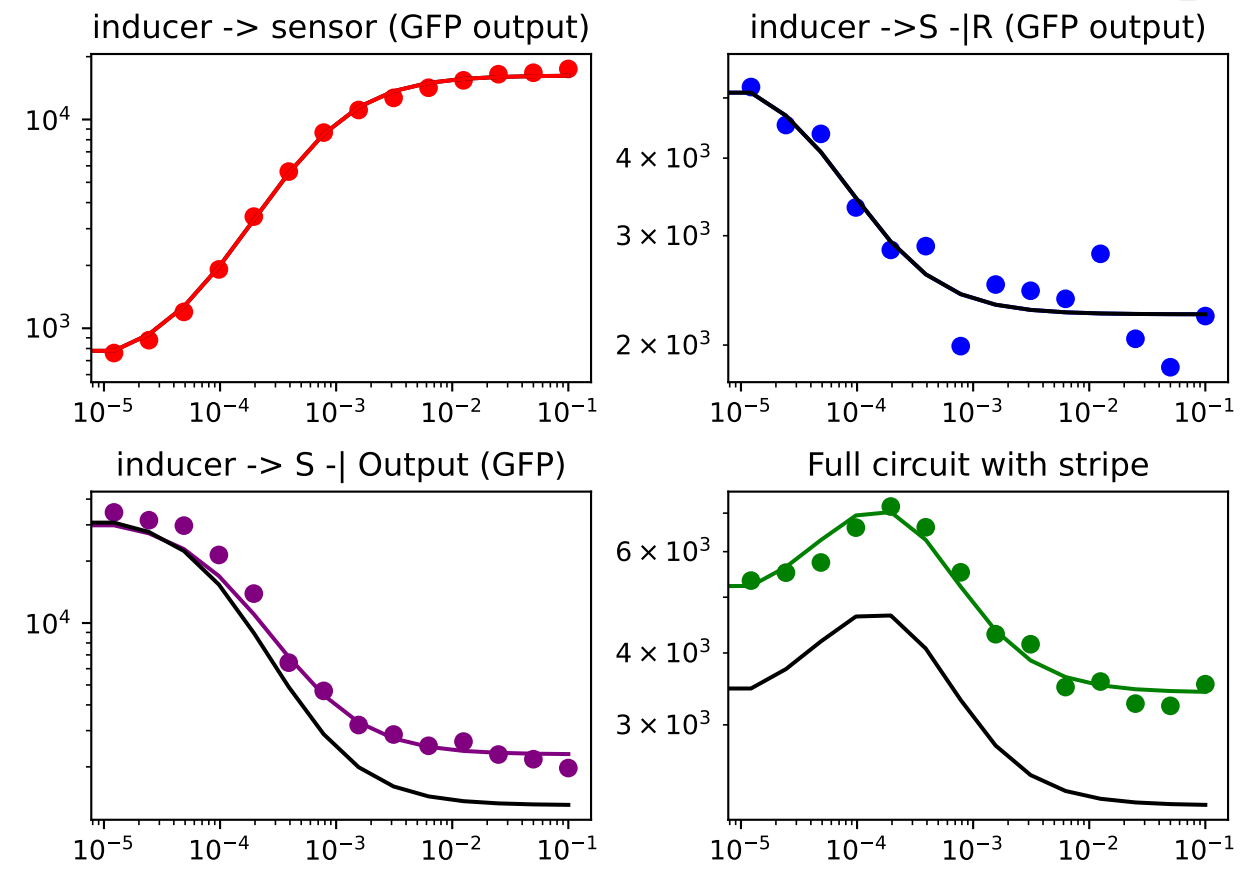


['SM data type data plots for mutation', 'Output7', 'using model:', 'model_hill.mod



time elapsed for this fit
--- 2.690615653991699 seconds ---

Across all four plots:

RSS (converged)=0.099
RSS (initial)=1.108
RSS (% reduction)=0.918

	epsilon	Initial_guesses	Converged
A_s	0.000000	650.714912	6.507149e+02
B_s	0.000000	16259.979950	1.625998e+04
C_s	0.000000	1296.448889	1.296449e+03
N_s	0.000000	1.154067	1.154067e+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	0.000000	143.802212	1.438022e+02
B_h	0.000000	50238.271408	5.023827e+04
C_h	0.000000	0.000929	9.291293e-04
A_o	-1.673894	1.673894	2.918811e-07
B_o	0.288858	0.895342	1.184200e+00
C_o	0.210986	2.657699	2.868685e+00
N_o	-0.236431	1.379953	1.143521e+00
F_o	-0.430038	2.361284	1.931246e+00

message: Optimization terminated successfully.
success: True
status: 0
fun: 0.09893105456449203
x: [6.507e+02 1.626e+04 ... 1.144e+00 1.931e+00]
nit: 908
nfev: 1255
final_simplex: (array([[6.507e+02, 1.626e+04, ..., 1.144e+00, 1.931e+00],
[6.507e+02, 1.626e+04, ..., 1.144e+00, 1.931e+00],
...,
[6.507e+02, 1.626e+04, ..., 1.144e+00, 1.931e+00],
[6.507e+02, 1.626e+04, ..., 1.144e+00, 1.931e+00]]), array([9.893e-02, 9.893e-02, ..., 9.893e-02, 9.893e-02]))