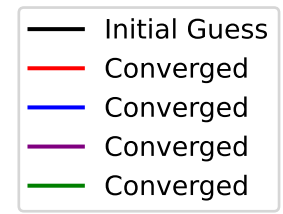
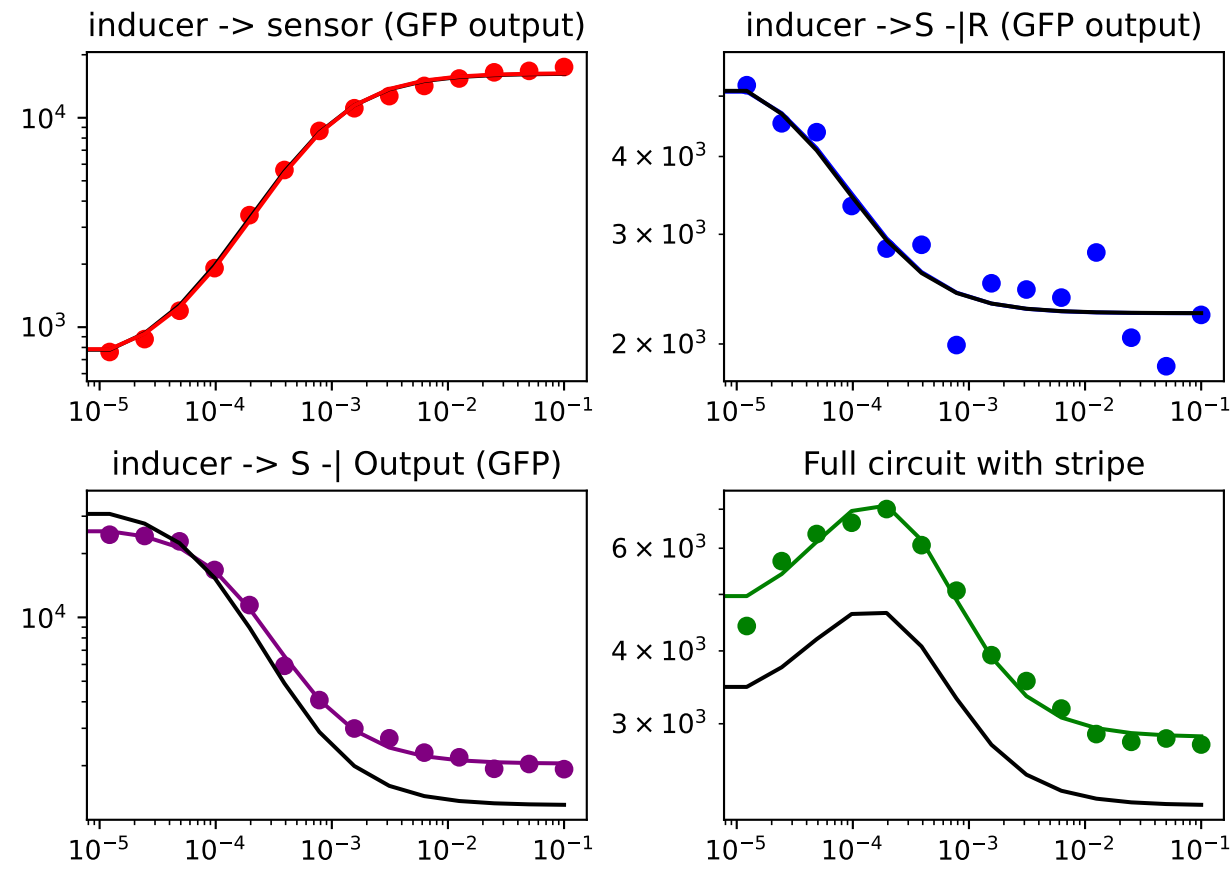


['SM data type data plots for mutation', 'Output9', 'using model:', 'model']



time elapsed for this fit
--- 23.700912952423096 seconds ---

Across all four plots:

RSS (converged)=0.052
RSS (initial)=0.711
RSS (% reduction)=0.932

	epsilon	Initial_guesses	Converged
A_s	16.762155	650.714912	6.674771e+02
B_s	88.856512	16259.979950	1.634884e+04
C_s	-34.334679	1296.448889	1.262114e+03
N_s	0.016359	1.154067	1.170426e+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	428.925078	143.802212	5.727273e+02
B_h	-18516.041632	50238.271408	3.172223e+04
C_h	-0.000416	0.000929	5.128883e-04
A_o	-1.673894	1.673894	8.563796e-12
B_o	2.017619	0.895342	2.912961e+00
C_o	0.149913	2.657699	2.807612e+00
N_o	0.042333	1.379953	1.422285e+00
F_o	-1.323642	2.361284	1.037641e+00

message: Optimization terminated successfully.
success: True
status: 0
fun: 0.05219452289808844
x: [6.675e+02 1.635e+04 ... 1.422e+00 1.038e+00]
nit: 8640
nfev: 11340
final_simplex: (array([[6.675e+02, 1.635e+04, ..., 1.422e+00, 1.038e+00],
[6.675e+02, 1.635e+04, ..., 1.422e+00, 1.038e+00],
...,
[6.675e+02, 1.635e+04, ..., 1.422e+00, 1.038e+00],
[6.675e+02, 1.635e+04, ..., 1.422e+00, 1.038e+00]]), array([5.219e-02, 5.219e-02, ..., 5.219e-02, 5.219e-02]))