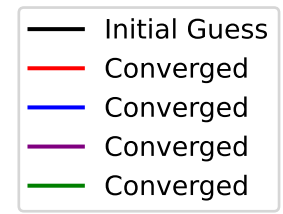
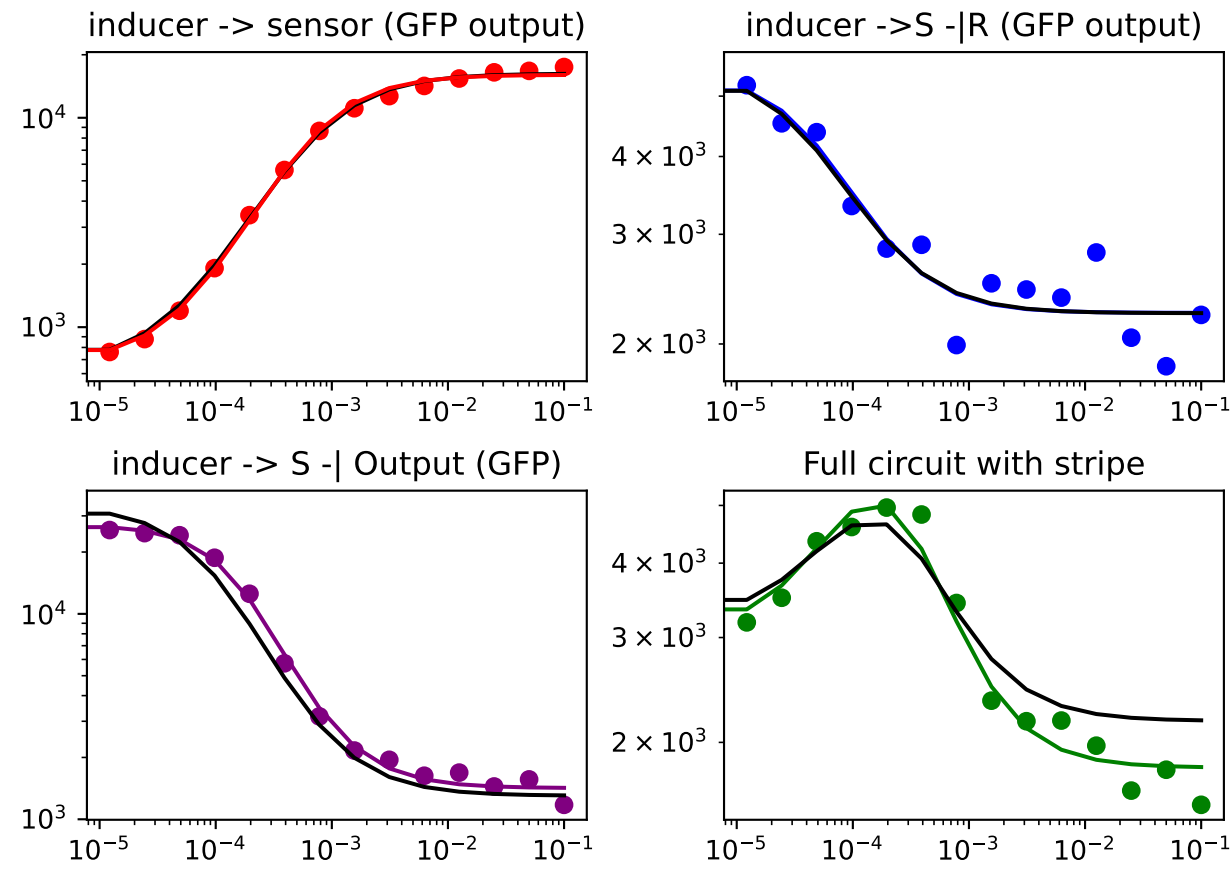


['SM data type data plots for mutation', 'Output5', 'using model:', 'model']



time elapsed for this fit  
--- 11.406686067581177 seconds ---

Across all four plots:

RSS (converged)=0.073  
RSS (initial)=0.184  
RSS (% reduction)=0.715

	epsilon	Initial_guesses	Converged
A_s	25.174826	650.714912	6.758897e+02
B_s	-214.601699	16259.979950	1.604538e+04
C_s	87.822022	1296.448889	1.384271e+03
N_s	0.074361	1.154067	1.228428e+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	-143.802212	143.802212	2.631796e-12
B_h	-19421.430749	50238.271408	3.081684e+04
C_h	-0.000512	0.000929	4.167862e-04
A_o	0.891442	1.673894	2.565336e+00
B_o	0.603329	0.895342	1.498671e+00
C_o	0.116487	2.657699	2.774186e+00
N_o	0.215593	1.379953	1.595546e+00
F_o	-0.948157	2.361284	1.413126e+00

message: Optimization terminated successfully.  
success: True  
status: 0  
fun: 0.0732268052454623  
x: [ 6.759e+02 1.605e+04 ... 1.596e+00 1.413e+00]  
nit: 3672  
nfev: 4895  
final\_simplex: (array([[ 6.759e+02, 1.605e+04, ..., 1.596e+00, 1.413e+00],  
[ 6.759e+02, 1.605e+04, ..., 1.596e+00, 1.413e+00],  
...,  
[ 6.759e+02, 1.605e+04, ..., 1.596e+00, 1.413e+00],  
[ 6.759e+02, 1.605e+04, ..., 1.596e+00, 1.413e+00]]), array([ 7.323e-02, 7.323e-02, ..., 7.323e-02, 7.323e-02]))