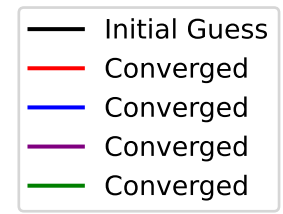
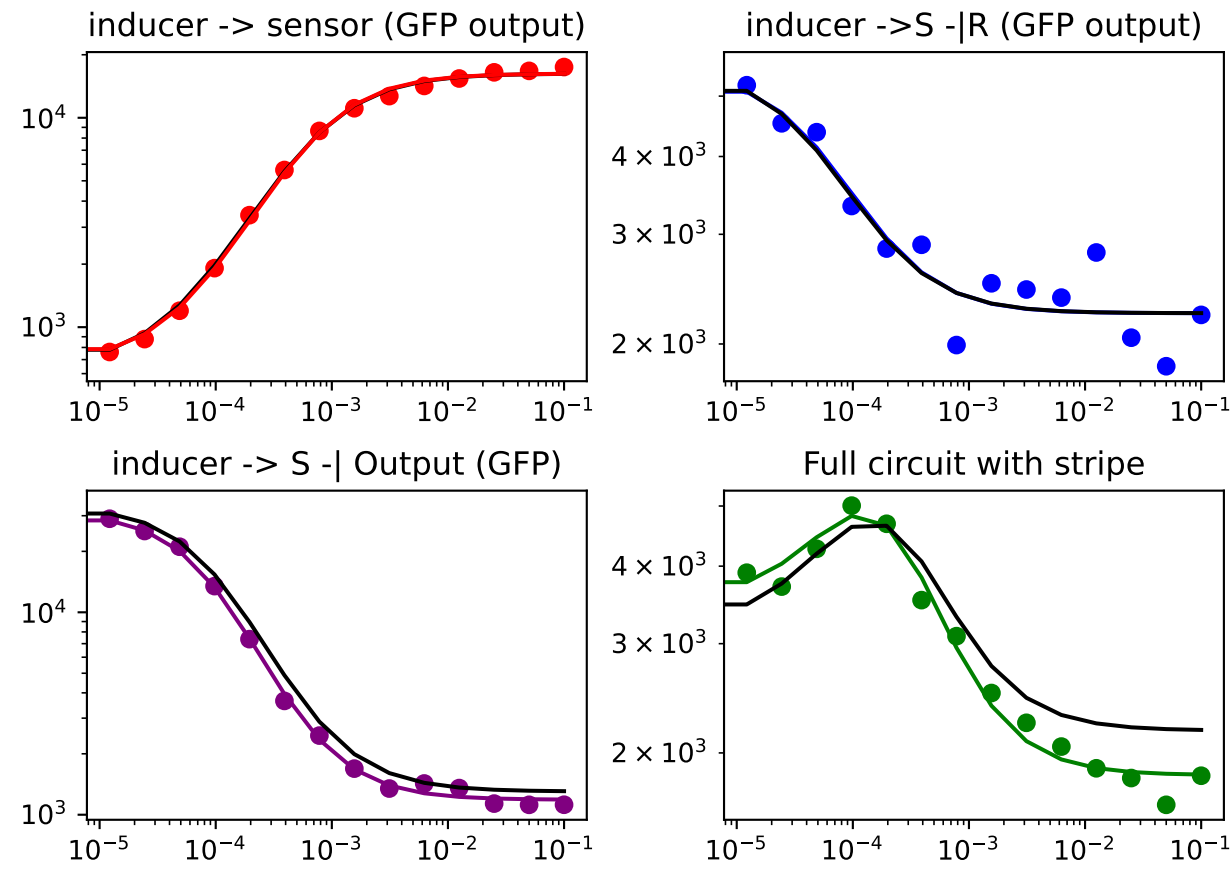


['SM data type data plots for mutation', 'Output1', 'using model:', 'model']



time elapsed for this fit  
--- 15.891180515289307 seconds ---

Across all four plots:

RSS (converged)=0.056  
RSS (initial)=0.152  
RSS (% reduction)=0.732

	epsilon	Initial_guesses	Converged
A_s	22.022965	650.714912	672.737877
B_s	7.504290	16259.979950	16267.484240
C_s	-5.819438	1296.448889	1290.629450
N_s	0.031977	1.154067	1.186044
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	246.923708	143.802212	390.725920
B_h	1923.504529	50238.271408	52161.775937
C_h	0.000216	0.000929	0.001145
A_o	-0.316898	1.673894	1.356996
B_o	1.245829	0.895342	2.141171
C_o	-0.702571	2.657699	1.955127
N_o	0.045365	1.379953	1.425318
F_o	-1.306895	2.361284	1.054389

message: Optimization terminated successfully.  
success: True  
status: 0  
fun: 0.05567006626750709  
x: [ 6.727e+02 1.627e+04 ... 1.425e+00 1.054e+00]  
nit: 4382  
nfev: 5971  
final\_simplex: (array([[ 6.727e+02, 1.627e+04, ..., 1.425e+00, 1.054e+00],  
[ 6.727e+02, 1.627e+04, ..., 1.425e+00, 1.054e+00],  
...,  
[ 6.727e+02, 1.627e+04, ..., 1.425e+00, 1.054e+00],  
[ 6.727e+02, 1.627e+04, ..., 1.425e+00, 1.054e+00]]), array([ 5.567e-02, 5.567e-02, ..., 5.567e-02, 5.567e-02]))