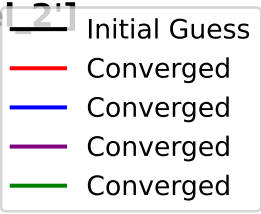
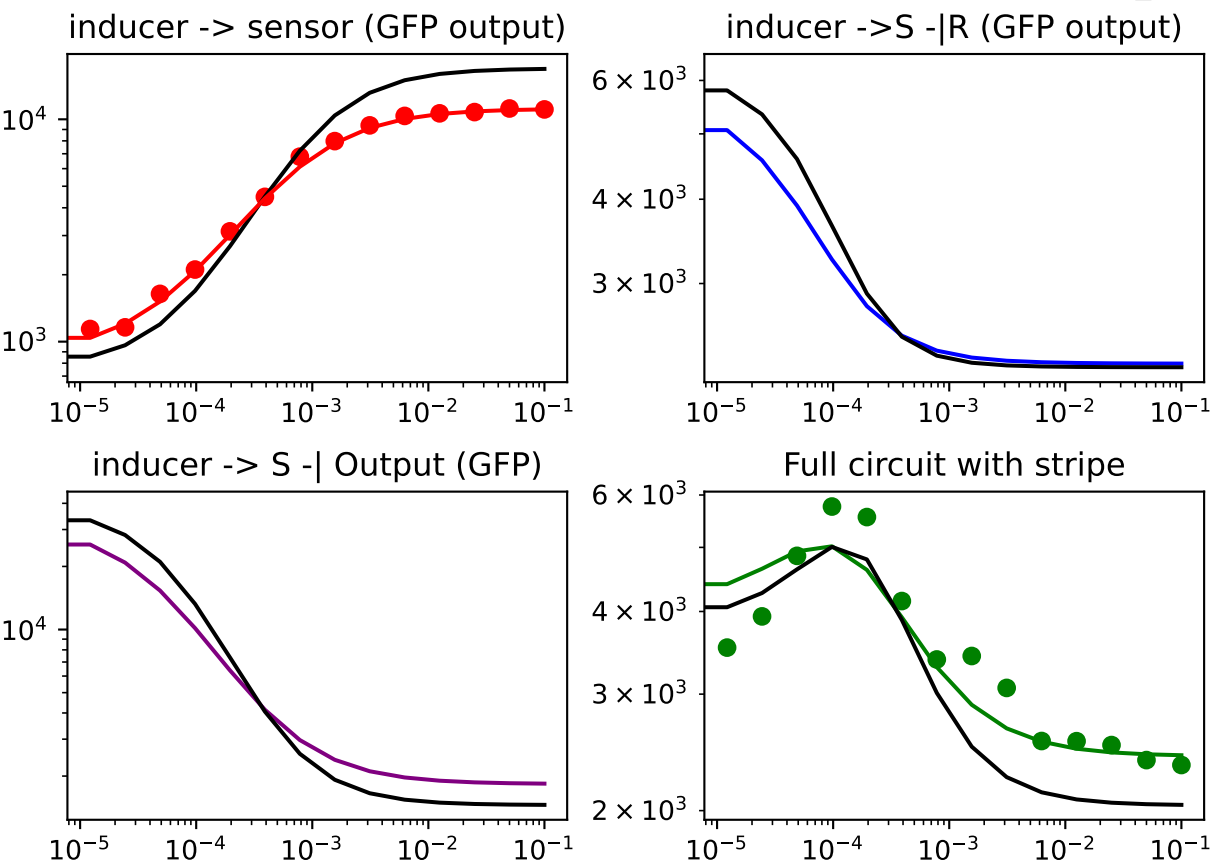


['SM data type data plots for mutation', 'Sensor1', 'using model:', 'model\_hill.mode1.2']



time elapsed for this fit  
--- 4.808736324310303 seconds ---

Across all four plots:

RSS (converged)=0.041

RSS (initial)=0.333

RSS (% reduction)=0.889

	epsilon	Initial_guesses	Converged
A_s	100.520236	7.671584e+02	8.676786e+02
B_s	-5775.749187	1.694202e+04	1.116627e+04
C_s	434.895348	8.969736e+02	1.331869e+03
N_s	-0.162488	1.151182e+00	9.886938e-01
A_r	0.000000	2.229804e+03	2.229804e+03
B_r	0.000000	8.961652e+03	8.961652e+03
C_r	0.000000	1.461384e-03	1.461384e-03
N_r	0.000000	1.841235e+00	1.841235e+00
A_o	0.000000	9.859837e+02	9.859837e+02
B_o	0.000000	1.801530e+07	1.801530e+07
C_o	0.000000	1.010522e-01	1.010522e-01
N_o	0.000000	1.417996e+00	1.417996e+00
F_o	0.000000	1.477611e+00	1.477611e+00

message: Optimization terminated successfully.  
success: True  
status: 0  
fun: 0.041462560638407565  
x: [ 8.677e+02 1.117e+04 ... 1.418e+00 1.478e+00]  
nit: 551  
nfev: 911  
final\_simplex: (array([[ 8.677e+02, 1.117e+04, ..., 1.418e+00, 1.478e+00],  
[ 8.677e+02, 1.117e+04, ..., 1.418e+00, 1.478e+00],  
...,  
[ 8.677e+02, 1.117e+04, ..., 1.418e+00, 1.478e+00],  
[ 8.677e+02, 1.117e+04, ..., 1.418e+00, 1.478e+00]]), array([ 4.146e-02, 4.146e-02, ..., 4.146e-02, 4.146e-02]))