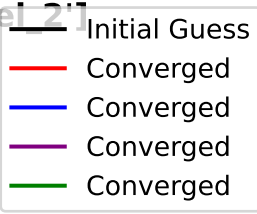
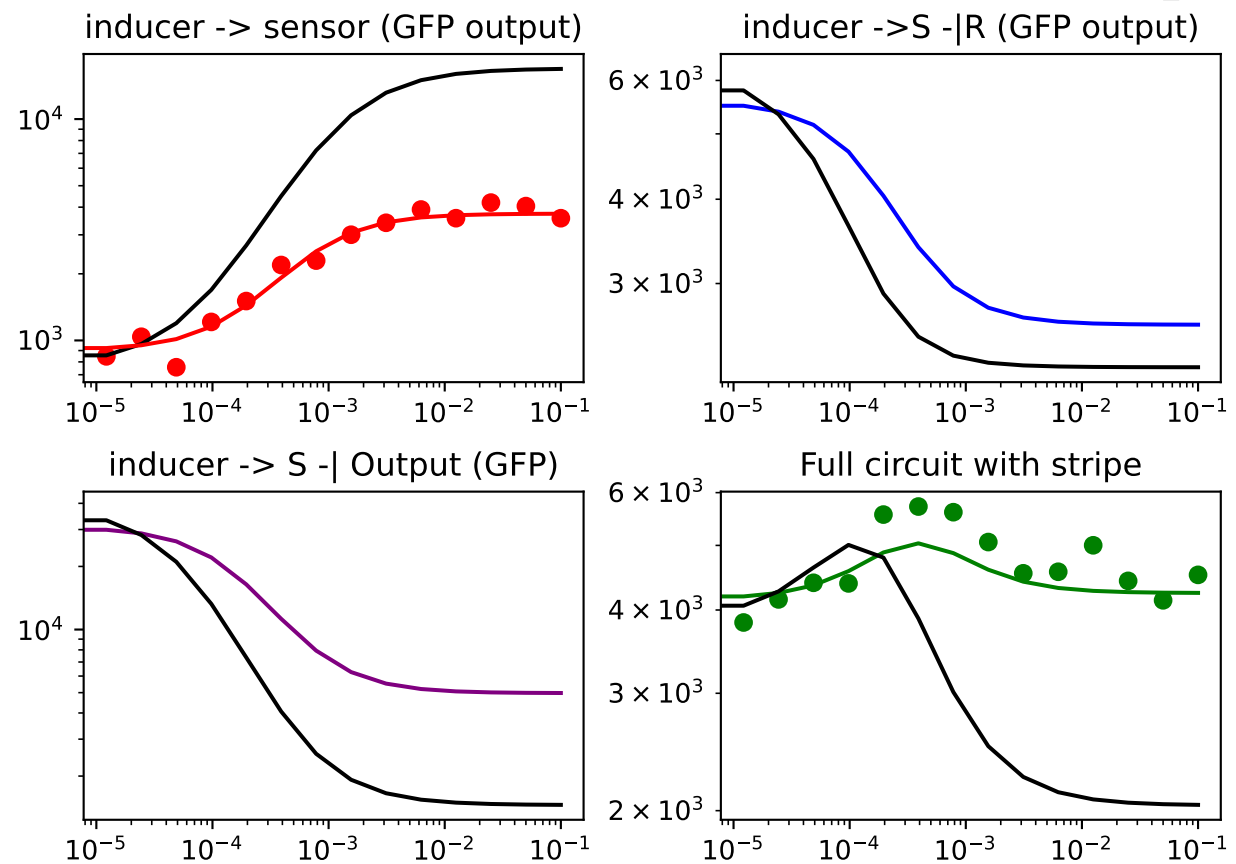


['SM data type data plots for mutation', 'Sensor10', 'using model:', 'model\_hill.model\_2']



time elapsed for this fit  
--- 2.352107048034668 seconds ---

Across all four plots:

RSS (converged)=0.066

RSS (initial)=3.971

RSS (% reduction)=0.984

	epsilon	Initial_guesses	Converged
A_s	136.900582	7.671584e+02	9.040590e+02
B_s	-13201.519671	1.694202e+04	3.740500e+03
C_s	716.831410	8.969736e+02	1.613805e+03
N_s	0.112362	1.151182e+00	1.263544e+00
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: 0.06611949331732757  
x: [ 9.041e+02 3.740e+03 ... 1.418e+00 1.478e+00]  
nit: 700  
nfev: 1119  
final\_simplex: (array([[ 9.041e+02, 3.740e+03, ..., 1.418e+00, 1.478e+00],  
[ 9.041e+02, 3.740e+03, ..., 1.418e+00, 1.478e+00],  
...,  
[ 9.041e+02, 3.740e+03, ..., 1.418e+00, 1.478e+00],  
[ 9.041e+02, 3.740e+03, ..., 1.418e+00, 1.478e+00]]), array([ 6.612e-02, 6.612e-02, ..., 6.612e-02, 6.612e-02]))