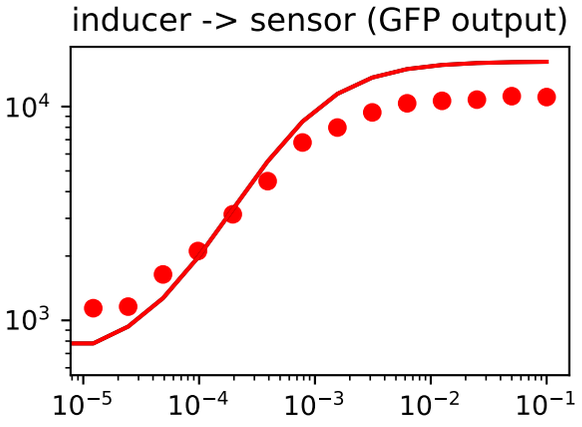
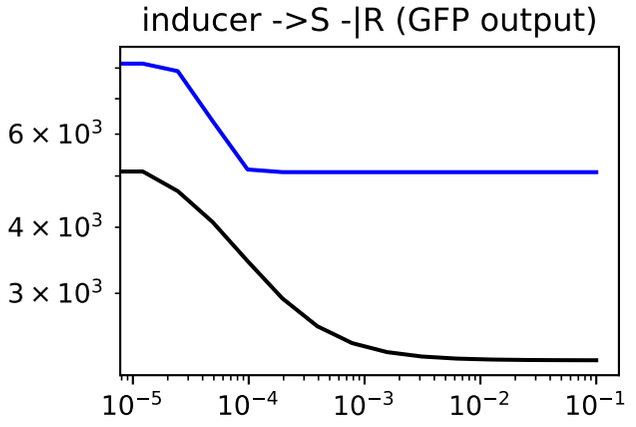
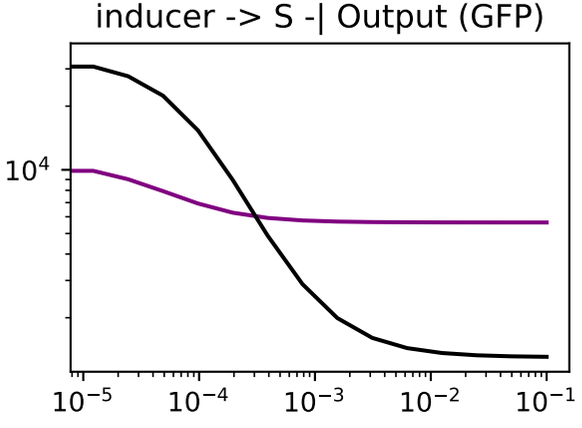
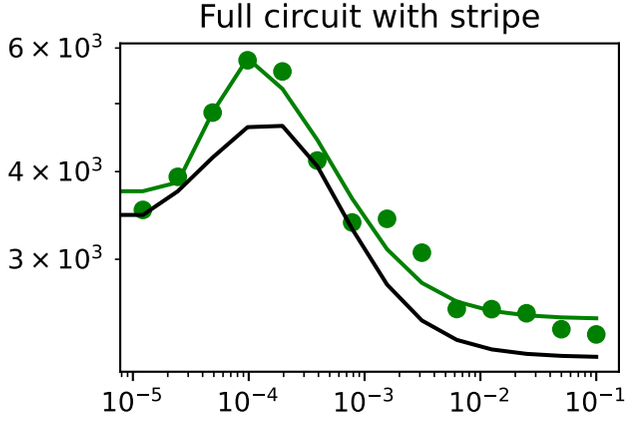
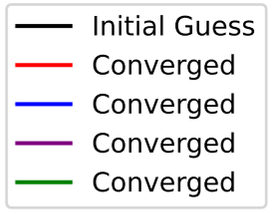
['SM data type data plots for mutation', 'Sensor1', 'using model:', 'model']











time elapsed for this fit
--- 38.5137357711792 seconds ---

Across all four plots:

RSS (converged)=0.284

RSS (initial)=0.332

RSS (% reduction)=0.539

	epsilon	Initial_guesses	Converged
A_s	0.000000	650.714912	6.507149e+02
B_s	0.000000	16259.979950	1.625998e+04
C_s	0.000000	1296.448889	1.296449e+03
N_s	0.000000	1.154067	1.154067e+00
A_r	3064.142611	2020.019216	5.084162e+03
B_r	-20530.439883	23688.809187	3.158369e+03
C_r	-0.009531	0.010358	8.268924e-04
N_r	7.208515	0.910072	8.118587e+00
A_h	5392.311910	143.802212	5.536114e+03
B_h	218971.622490	50238.271408	2.692099e+05
C_h	0.034188	0.000929	3.511727e-02
A_o	-1.673894	1.673894	3.663068e-15
B_o	6.321683	0.895342	7.217025e+00
C_o	-0.270260	2.657699	2.387439e+00
N_o	-0.138883	1.379953	1.241069e+00
F_o	4.325944	2.361284	6.687228e+00

message: Optimization terminated successfully.
success: True
status: 0
fun: 0.28368443760564377
x: [6.507e+02 1.626e+04 ... 1.241e+00 6.687e+00]
nit: 15090
nfev: 19926
final_simplex: (array([[6.507e+02, 1.626e+04, ..., 1.241e+00,
6.687e+00],
[6.507e+02, 1.626e+04, ..., 1.241e+00,
6.687e+00],
...,
[6.507e+02, 1.626e+04, ..., 1.241e+00,
6.687e+00],
[6.507e+02, 1.626e+04, ..., 1.241e+00,
6.687e+00]]), array([2.837e-01, 2.837e-01, ..., 2.837e-01, 2.837e-01]))