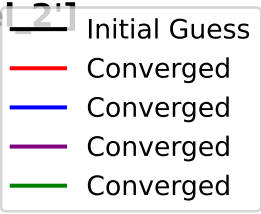
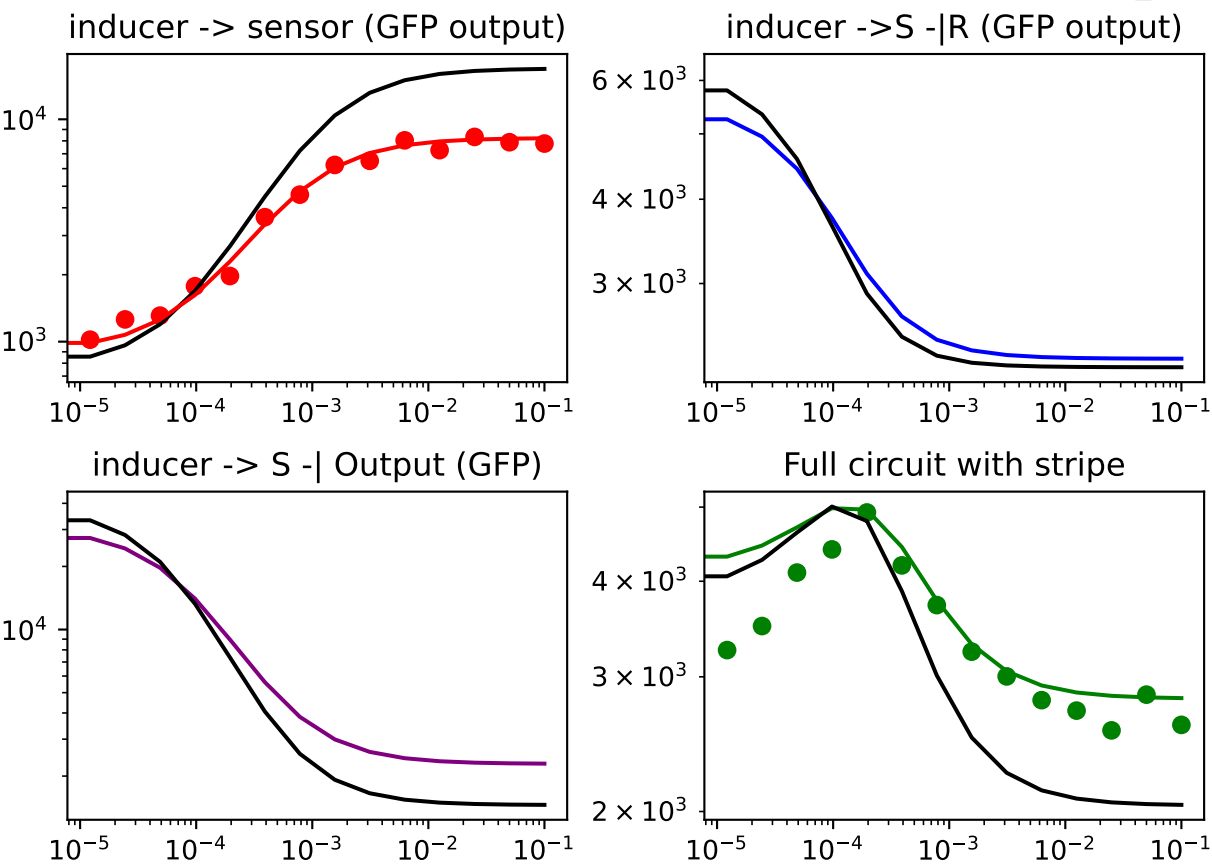


['SM data type data plots for mutation', 'Sensor4', 'using model:', 'model_hill.mode



time elapsed for this fit
--- 1.6830847263336182 seconds ---

Across all four plots:

RSS (converged)=0.077

RSS (initial)=0.887

RSS (% reduction)=0.92

	epsilon	Initial_guesses	Converged
A_s	143.635099	7.671584e+02	9.107935e+02
B_s	-8696.580256	1.694202e+04	8.245439e+03
C_s	491.003253	8.969736e+02	1.387977e+03
N_s	-0.033331	1.151182e+00	1.117851e+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: 0.07737684756345134
x: [9.108e+02 8.245e+03 ... 1.418e+00 1.478e+00]
nit: 543
nfev: 885
final_simplex: (array([[9.108e+02, 8.245e+03, ..., 1.418e+00,
1.478e+00],
[9.108e+02, 8.245e+03, ..., 1.418e+00,
1.478e+00],
...,
[9.108e+02, 8.245e+03, ..., 1.418e+00,
1.478e+00],
[9.108e+02, 8.245e+03, ..., 1.418e+00,
1.478e+00]]), array([7.738e-02, 7.738e-02, ..., 7.738e-02, 7.738e-02]))