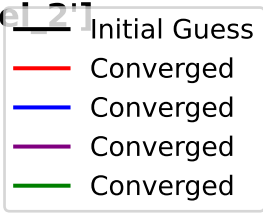
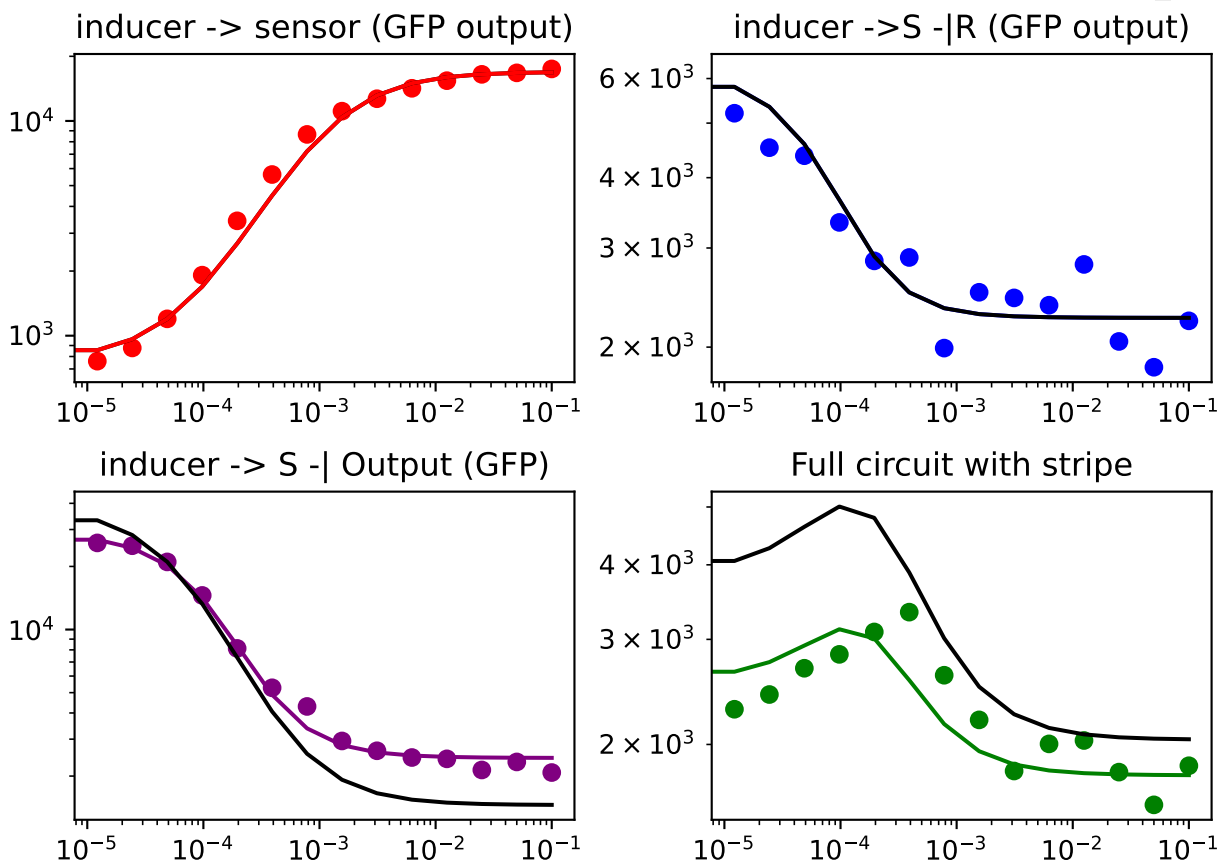


['SM data type data plots for mutation', 'Output10', 'using model:', 'model_hill.model_2']



time elapsed for this fit
--- 14.021954536437988 seconds ---

Across all four plots:

RSS (converged)=0.158
RSS (initial)=0.835
RSS (% reduction)=0.841

	epsilon	Initial guesses	Converged
A_s	0.000000e+00	7.671584e+02	767.158409
B_s	0.000000e+00	1.694202e+04	16942.019302
C_s	0.000000e+00	8.969736e+02	896.973585
N_s	0.000000e+00	1.151182e+00	1.151182
A_r	0.000000e+00	2.229804e+03	2229.803862
B_r	0.000000e+00	8.961652e+03	8961.651645
C_r	0.000000e+00	1.461384e-03	0.001461
N_r	0.000000e+00	1.841235e+00	1.841235
A_o	1.184933e+03	9.859837e+02	2170.916523
B_o	-1.797095e+07	1.801530e+07	44351.156117
C_o	-1.000224e-01	1.010522e-01	0.001030
N_o	3.647987e-01	1.417996e+00	1.782794
F_o	-7.338672e-01	1.477611e+00	0.743743

message: Optimization terminated successfully.
success: True
status: 0
fun: 0.15778735075686035
x: [7.672e+02 1.694e+04 ... 1.783e+00 7.437e-01]
nit: 3137
nfev: 4483
final_simplex: (array([[7.672e+02, 1.694e+04, ..., 1.783e+00, 7.437e-01],
[7.672e+02, 1.694e+04, ..., 1.783e+00, 7.437e-01],
...,
[7.672e+02, 1.694e+04, ..., 1.783e+00, 7.437e-01],
[7.672e+02, 1.694e+04, ..., 1.783e+00, 7.437e-01]]), array([1.578e-01, 1.578e-01, ..., 1.578e-01, 1.578e-01]))