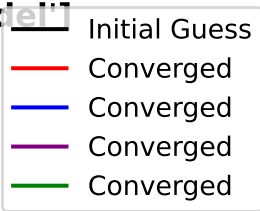
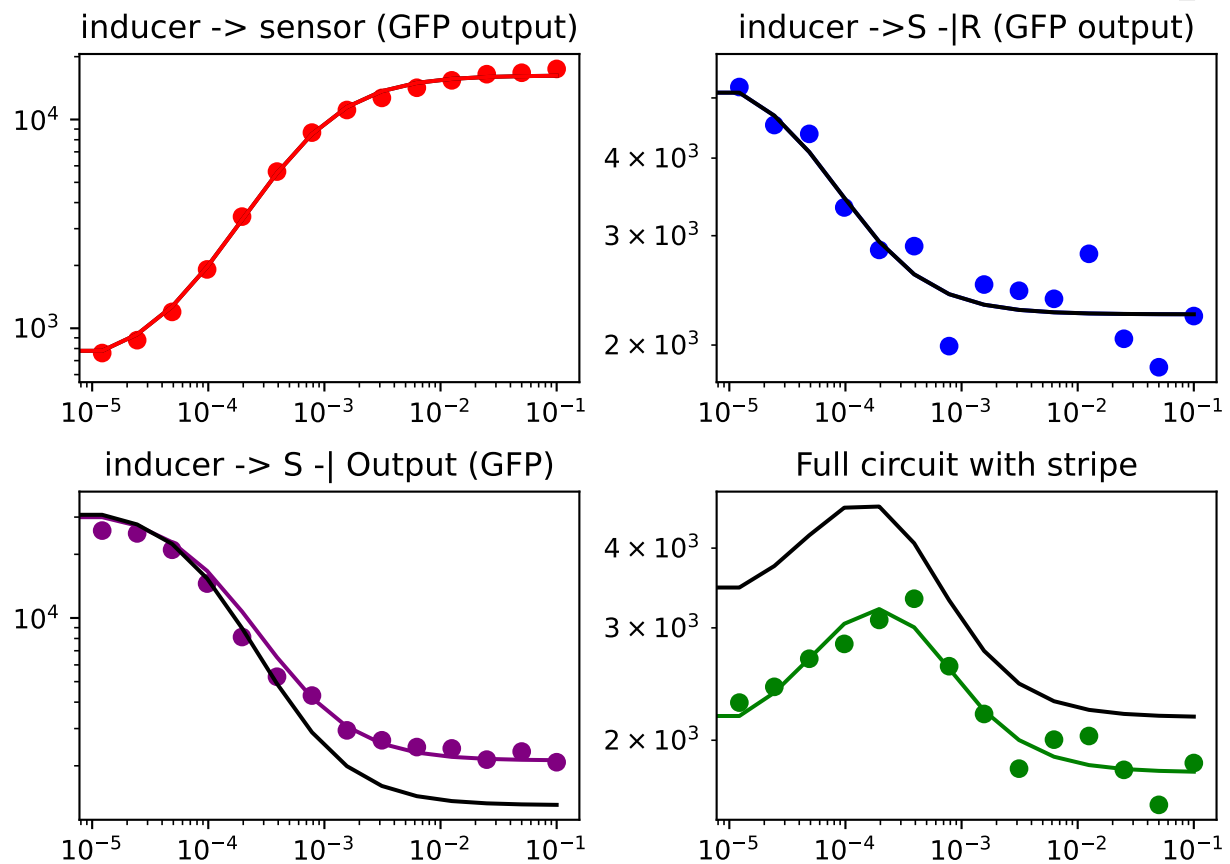


['SM data type data plots for mutation', 'Output10', 'using model:', 'model_hill.model']



time elapsed for this fit
--- 3.7211825847625732 seconds ---

Across all four plots:

RSS (converged)=0.091

RSS (initial)=0.735

RSS (% reduction)=0.89

	epsilon	Initial_guesses	Converged
A_s	0.000000	650.714912	650.714912
B_s	0.000000	16259.979950	16259.979950
C_s	0.000000	1296.448889	1296.448889
N_s	0.000000	1.154067	1.154067
A_r	0.000000	2020.019216	2020.019216
B_r	0.000000	23688.809187	23688.809187
C_r	0.000000	0.010358	0.010358
N_r	0.000000	0.910072	0.910072
A_h	0.000000	143.802212	143.802212
B_h	0.000000	50238.271408	50238.271408
C_h	0.000000	0.000929	0.000929
A_o	-1.610495	1.673894	0.063400
B_o	0.707448	0.895342	1.602790
C_o	1.321197	2.657699	3.978896
N_o	-0.202664	1.379953	1.177289
F_o	-1.438708	2.361284	0.922576

message: Optimization terminated successfully.
success: True
status: 0
fun: 0.09107592218659229
x: [6.507e+02 1.626e+04 ... 1.177e+00 9.226e-01]
nit: 960
nfev: 1398
final_simplex: (array([[6.507e+02, 1.626e+04, ..., 1.177e+00, 9.226e-01],
[6.507e+02, 1.626e+04, ..., 1.177e+00, 9.226e-01],
...,
[6.507e+02, 1.626e+04, ..., 1.177e+00, 9.226e-01],
[6.507e+02, 1.626e+04, ..., 1.177e+00, 9.226e-01]]), array([9.108e-02, 9.108e-02, ..., 9.108e-02, 9.108e-02]))