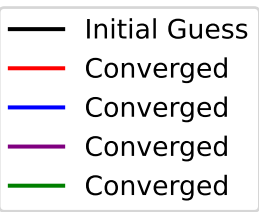
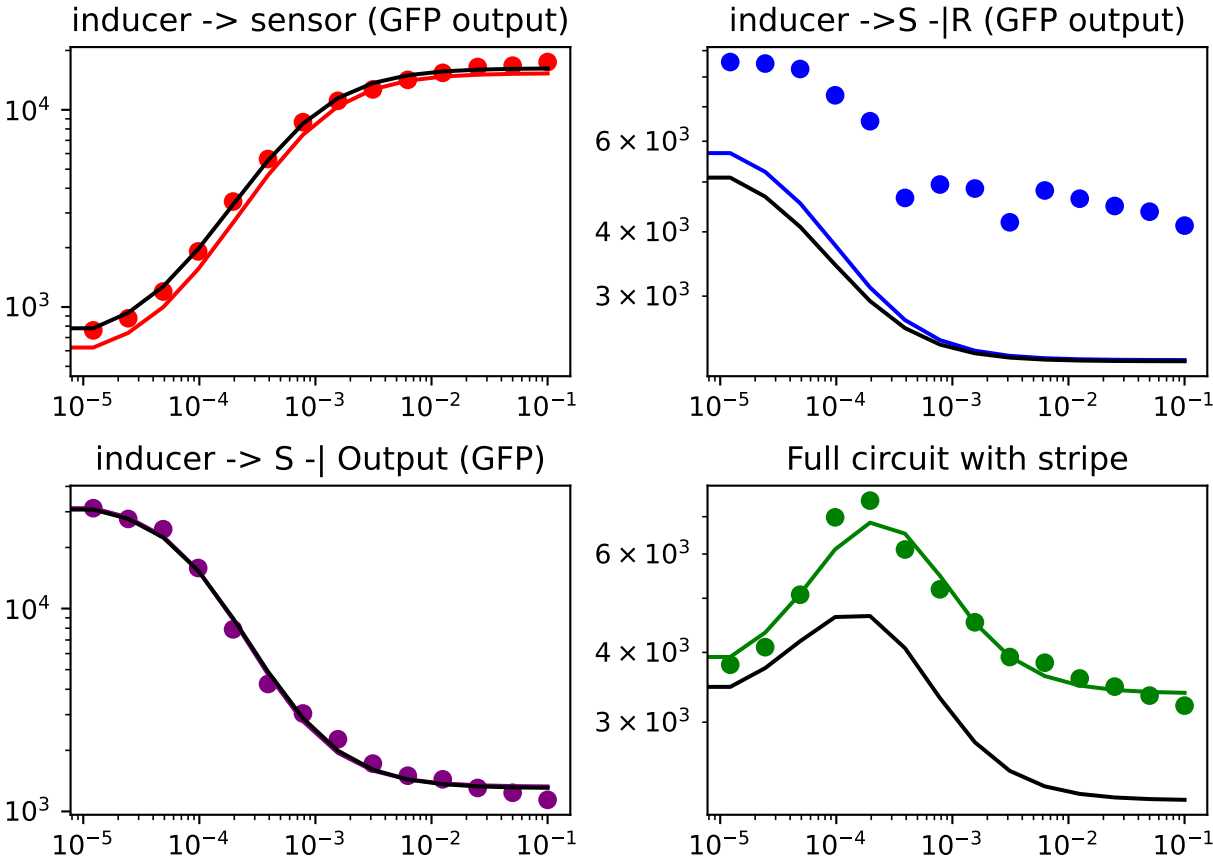


['SM data type data plots for mutation', 'Regulator5', 'using model:', 'model']



time elapsed for this fit
--- 37.93808197975159 seconds ---

Across all four plots:

RSS (converged)=1.211

RSS (initial)=1.717

RSS (% reduction)=0.587

	epsilon	Initial_guesses	Converged
A_s	-119.900303	650.714912	5.308146e+02
B_s	-918.851186	16259.979950	1.534113e+04
C_s	-144.464629	1296.448889	1.151984e+03
N_s	0.035566	1.154067	1.189633e+00
A_r	0.000000	2020.019216	2.020019e+03
B_r	0.000000	23688.809187	2.368881e+04
C_r	0.000000	0.010358	1.035760e-02
N_r	0.000000	0.910072	9.100723e-01
A_h	253.375620	143.802212	3.971778e+02
B_h	3689.358728	50238.271408	5.392763e+04
C_h	0.000367	0.000929	1.296115e-03
A_o	-1.673894	1.673894	6.244101e-13
B_o	4.390134	0.895342	5.285476e+00
C_o	0.901457	2.657699	3.559156e+00
N_o	-0.026505	1.379953	1.353448e+00
F_o	-1.152356	2.361284	1.208928e+00

message: Optimization terminated successfully.
success: True
status: 0
fun: 1.210589570588235
x: [5.308e+02 1.534e+04 ... 1.353e+00 1.209e+00]
nit: 13519
nfev: 17601
final_simplex: (array([[5.308e+02, 1.534e+04, ..., 1.353e+00, 1.209e+00],
[5.308e+02, 1.534e+04, ..., 1.353e+00, 1.209e+00],
...,
[5.308e+02, 1.534e+04, ..., 1.353e+00, 1.209e+00],
[5.308e+02, 1.534e+04, ..., 1.353e+00, 1.209e+00]]), array([1.211e+00, 1.211e+00, ..., 1.211e+00, 1.211e+00]))