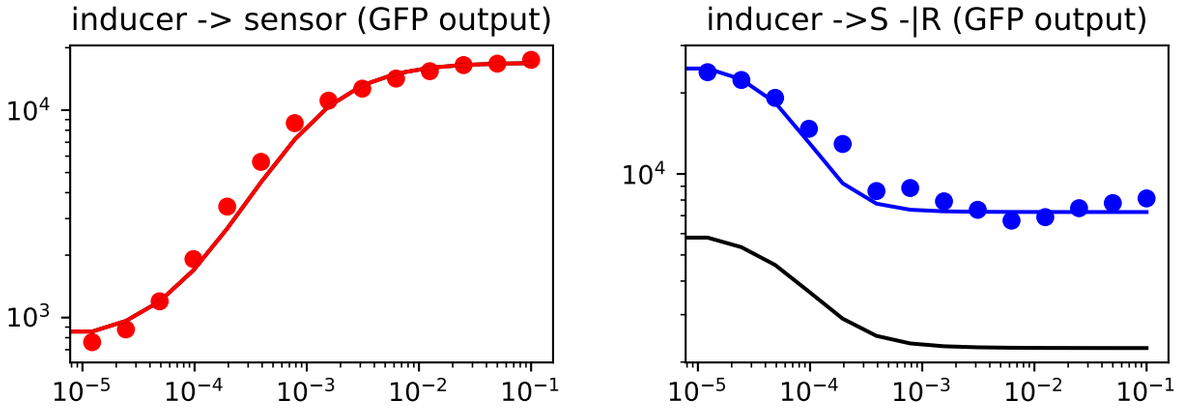
['SM data type data plots for mutation', 'Regulator1', 'using model:', 'model_hill.model_2']



time elapsed for this fit
--- 3.509382486343384 seconds ---

Across all four plots:

RSS (converged)=0.421

RSS (initial)=5.564

RSS (% reduction)=0.93

	epsilon	Initial_guesses	Converged
A_s	0.000000	7.671584e+02	7.671584e+02
B_s	0.000000	1.694202e+04	1.694202e+04
C_s	0.000000	8.969736e+02	8.969736e+02
N_s	0.000000	1.151182e+00	1.151182e+00
A_r	4971.184685	2.229804e+03	7.200989e+03
B_r	19677.383844	8.961652e+03	2.863904e+04
C_r	-0.000474	1.461384e-03	9.872900e-04
N_r	0.796116	1.841235e+00	2.637351e+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: 0.4209959918761989
x: [7.672e+02 1.694e+04 ... 1.418e+00 1.478e+00]
nit: 730
nfev: 1206
final_simplex: (array([[7.672e+02, 1.694e+04, ..., 1.418e+00, 1.478e+00],
[7.672e+02, 1.694e+04, ..., 1.418e+00, 1.478e+00],
...,
[7.672e+02, 1.694e+04, ..., 1.418e+00, 1.478e+00],
[7.672e+02, 1.694e+04, ..., 1.418e+00, 1.478e+00]]), array([4.210e-01, 4.210e-01, ..., 4.210e-01, 4.210e-01]))