['SM data type data plots for mutation', 'Output4', 'using model:', 'model_hill.model_2']

inducer -> sensor (GFP output)

inducer ->S -|R (GFP output)

- Initial Guess
- Converged
- Converged
- Converged
- Converged
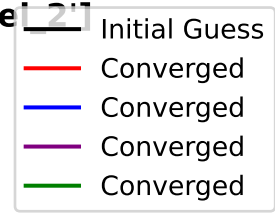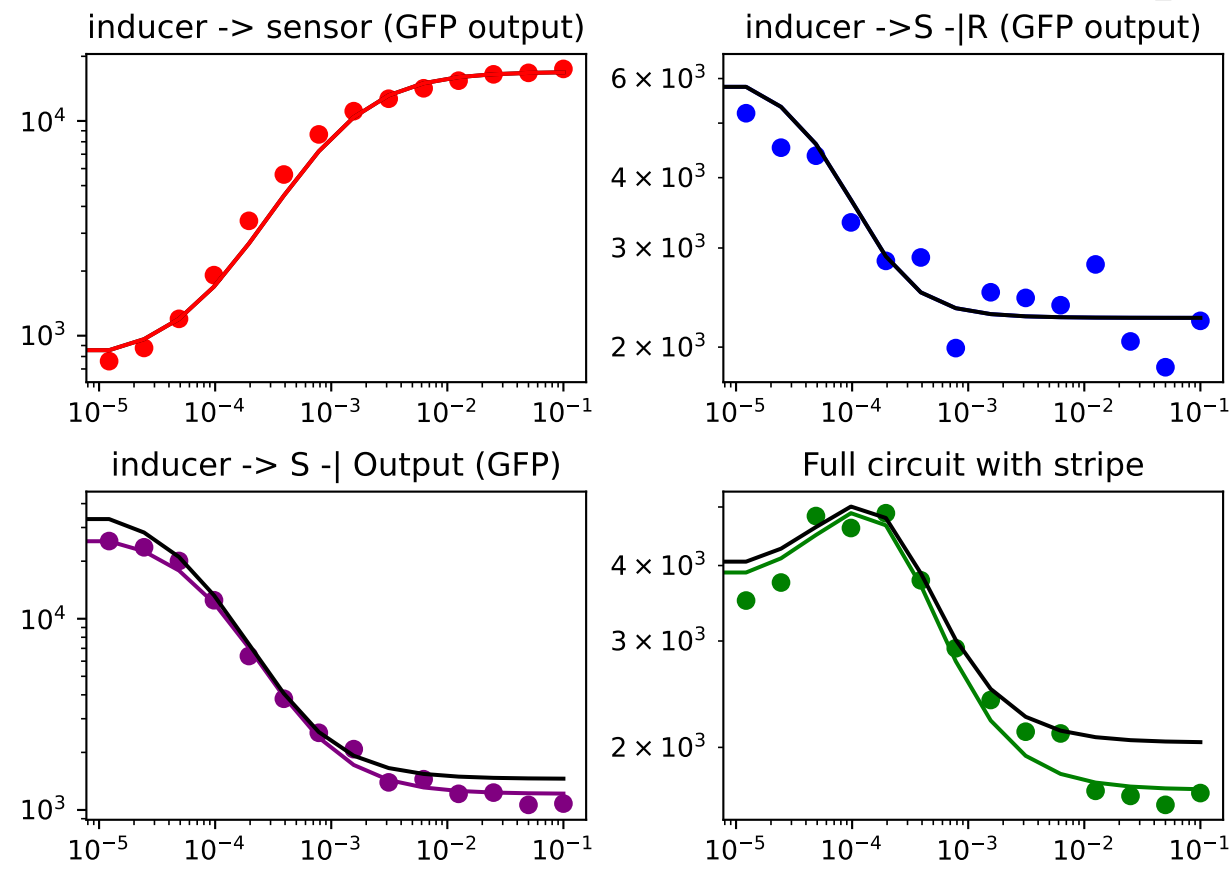
time elapsed for this fit
--- 9.192170858383179 seconds ---

inducer -> S -| Output (GFP)

Full circuit with stripe

Across all four plots:

RSS (converged)=0.121

RSS (initial)=0.244

RSS (% reduction)=0.669

	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	-3.028618e+02	9.859837e+02	683.121897
B_o	-1.791747e+07	1.801530e+07	97824.797034
C_o	-9.849612e-02	1.010522e-01	0.002556
N_o	-3.502596e-02	1.417996e+00	1.382970
F_o	2.762577e-02	1.477611e+00	1.505236

message: Optimization terminated successfully.
success: True
 status: 0
   fun: 0.1205528463288701
    x: [7.672e+02 1.694e+04 ... 1.383e+00 1.505e+00]
  nit: 2227
 nfev: 3307
final_simplex: (array([[7.672e+02, 1.694e+04, ..., 1.383e+00,
         1.505e+00],
        [7.672e+02, 1.694e+04, ..., 1.383e+00,
         1.505e+00],
        ...,
        [7.672e+02, 1.694e+04, ..., 1.383e+00,
         1.505e+00],
        [7.672e+02, 1.694e+04, ..., 1.383e+00,
         1.505e+00]]), array([1.206e-01, 1.206e-01, ..., 1.206e-01, 1.206e-01]))