['SM data type data plots for mutation', 'Sensor5', 'using model:', 'model_hill.model_2']

inducer -> sensor (GFP output)

inducer ->S -|R (GFP output)

inducer -> S -| Output (GFP)

Full circuit with stripe

Legend:
- Initial Guess
- Converged
- Converged
- Converged
- Converged
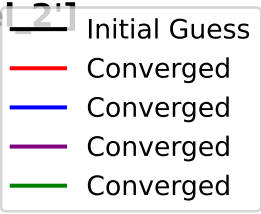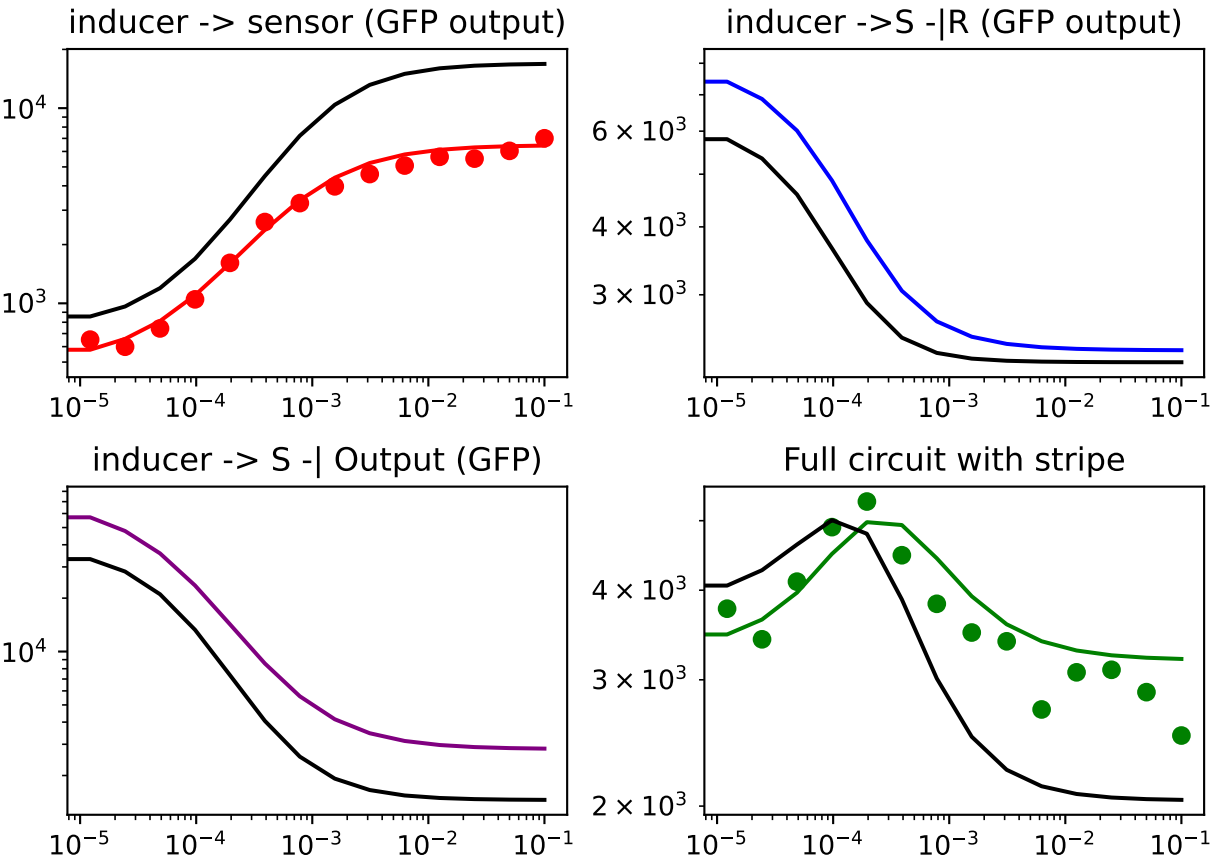
time elapsed for this fit
--- 6.4080491065979 seconds ---

Across all four plots:

RSS (converged)=0.061

RSS (initial)=1.971

RSS (% reduction)=0.97

	epsilon	Initial_guesses	Converged
A_s	-268.089001	7.671584e+02	4.990694e+02
B_s	-10465.722652	1.694202e+04	6.476297e+03
C_s	293.923648	8.969736e+02	1.190897e+03
N_s	-0.132535	1.151182e+00	1.018647e+00
A_r	0.000000	2.229804e+03	2.229804e+03
B_r	0.000000	8.961652e+03	8.961652e+03
C_r	0.000000	1.461384e-03	1.461384e-03
N_r	0.000000	1.841235e+00	1.841235e+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: 0.060732462719036075
     x: [4.991e+02 6.476e+03 ... 1.418e+00 1.478e+00]
   nit: 665
  nfev: 1060
final_simplex: (array([[4.991e+02, 6.476e+03, ..., 1.418e+00,
                1.478e+00],
              [4.991e+02, 6.476e+03, ..., 1.418e+00,
                1.478e+00],
              ...,
              [4.991e+02, 6.476e+03, ..., 1.418e+00,
                1.478e+00],
              [4.991e+02, 6.476e+03, ..., 1.418e+00,
                1.478e+00]]), array([6.073e-02, 6.073e-02, ..., 6.073e-02, 6.073e-02]))