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

Legend:
- Initial Guess (black)
- Converged (red)
- Converged (blue)
- Converged (purple)
- Converged (green)

inducer -> sensor (GFP output)

inducer ->S -|R (GFP output)

inducer -> S -| Output (GFP)

Full circuit with stripe
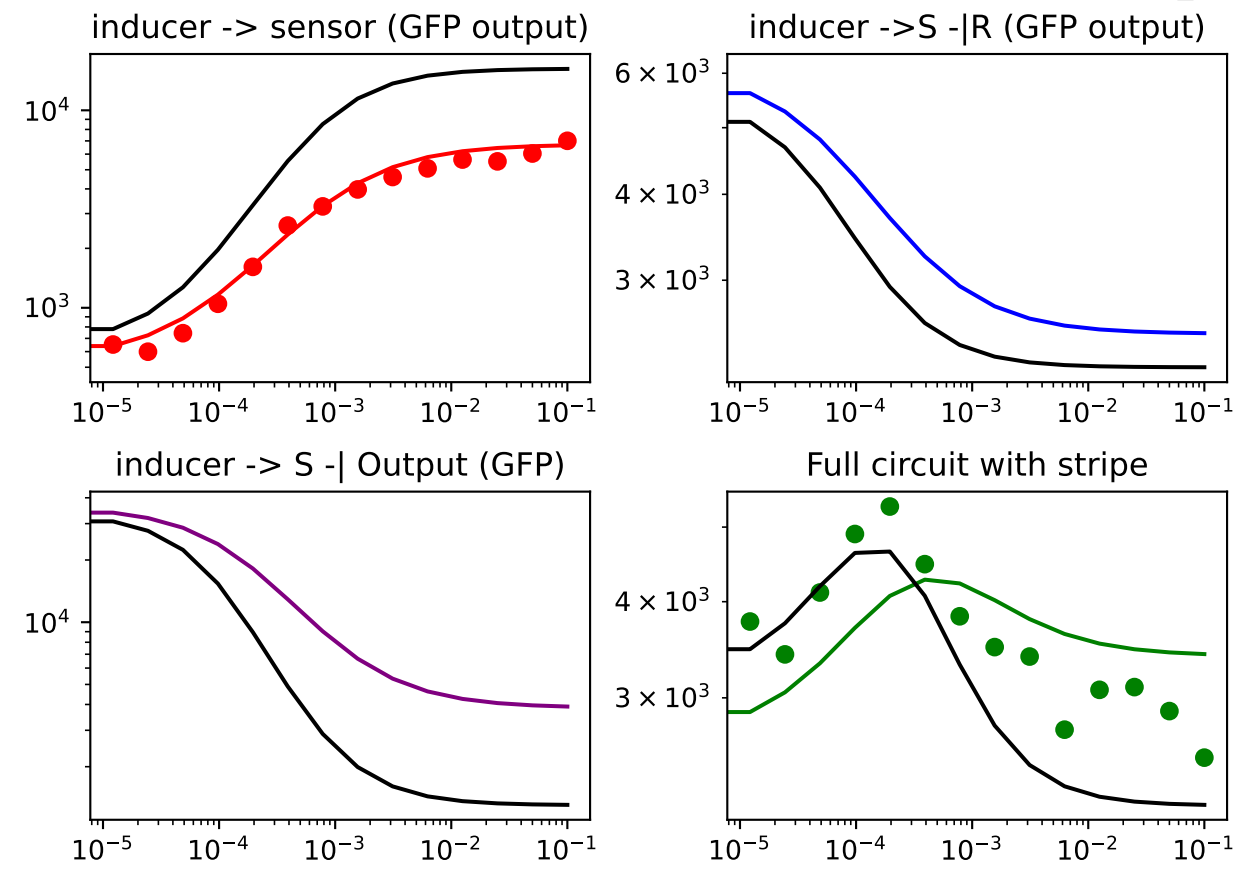
time elapsed for this fit
--- 2.4705450534820557 seconds ---

Across all four plots:

RSS (converged)=0.146

RSS (initial)=2.053

RSS (% reduction)=0.933

	epsilon	Initial_guesses	Converged
A_s	-106.627390	650.714912	544.087522
B_s	-9528.569520	16259.979950	6731.410429
C_s	-297.989261	1296.448889	998.459628
N_s	-0.212369	1.154067	0.941698
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	0.000000	1.673894	1.673894
B_o	0.000000	0.895342	0.895342
C_o	0.000000	2.657699	2.657699
N_o	0.000000	1.379953	1.379953
F_o	-0.217011	2.361284	2.144273

message: Optimization terminated successfully.
success: True
 status: 0
    fun: 0.14635373535248491
      x: [5.441e+02 6.731e+03 ... 1.380e+00 2.144e+00]
    nit: 777
   nfev: 1237
final_simplex: (array([[5.441e+02, 6.731e+03, ..., 1.380e+00,
          2.144e+00],
        [5.441e+02, 6.731e+03, ..., 1.380e+00,
          2.144e+00],
        ...,
        [5.441e+02, 6.731e+03, ..., 1.380e+00,
          2.144e+00],
        [5.441e+02, 6.731e+03, ..., 1.380e+00,
          2.144e+00]]), array([1.464e-01, 1.464e-01, ..., 1.464e-01, 1.464e-01]))