['SM data type data plots for mutation', 'Sensor9', 'using model:', '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
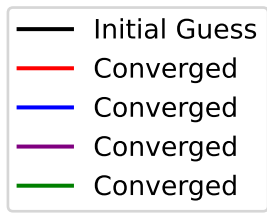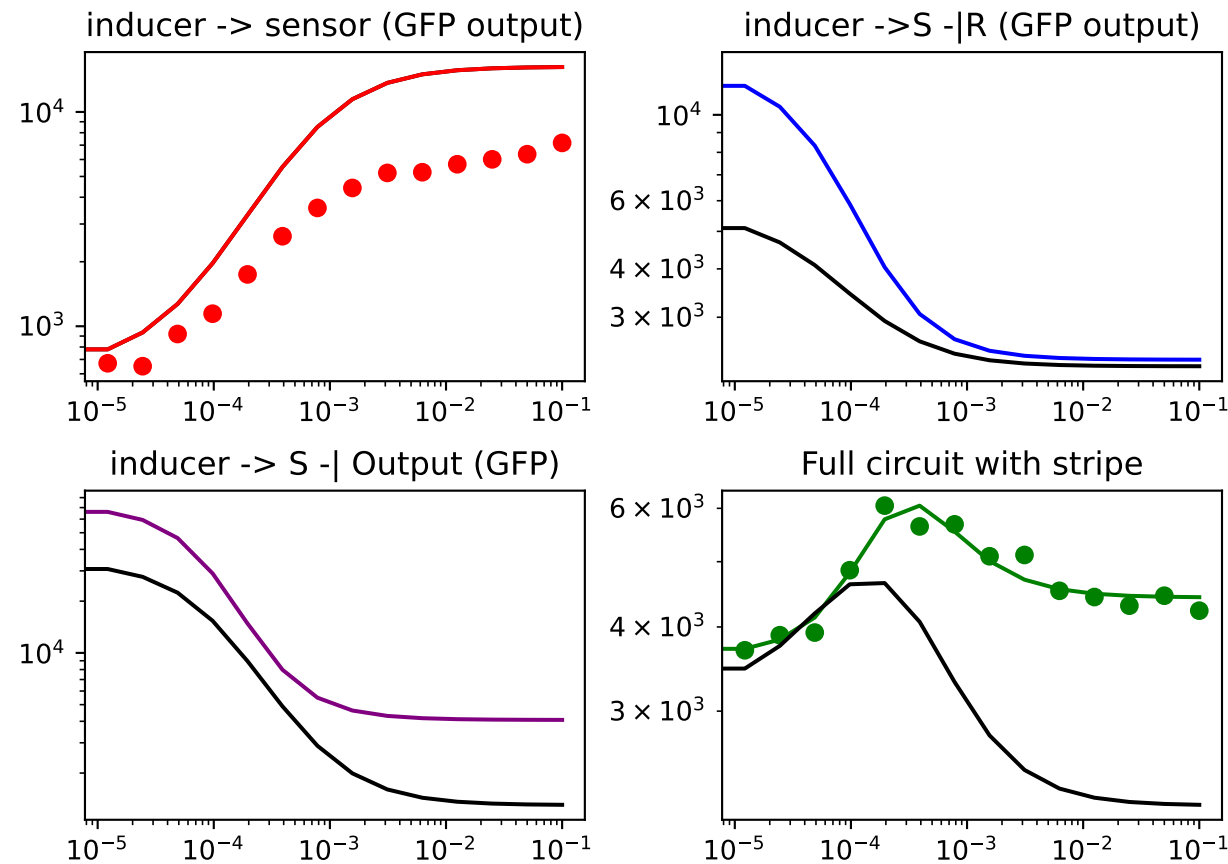
time elapsed for this fit
--- 40.79175138473511 seconds ---

Across all four plots:

RSS (converged)=1.652

RSS (initial)=2.353

RSS (% reduction)=0.588

	epsilon	Initial_guesses	Converged
A_s	0.000000	650.714912	650.714912
B_s	0.000000	16259.979950	16259.979950
C_s	0.000000	1296.448889	1296.448889
N_s	0.000000	1.154067	1.154067
A_r	122.182115	2020.019216	2142.201331
B_r	-3048.723196	23688.809187	20640.085991
C_r	-0.008976	0.010358	0.001382
N_r	0.597446	0.910072	1.507519
A_h	3364.518747	143.802212	3508.320959
B_h	36959.640823	50238.271408	87197.912231
C_h	-0.000132	0.000929	0.000797
A_o	-1.322913	1.673894	0.350982
B_o	0.729575	0.895342	1.624917
C_o	0.455351	2.657699	3.113050
N_o	0.584842	1.379953	1.964795
F_o	0.276290	2.361284	2.637574

message: Optimization terminated successfully.
success: True
 status: 0
    fun: 1.6515062924967585
      x: [6.507e+02 1.626e+04 ... 1.965e+00 2.638e+00]
    nit: 16078
   nfev: 21368
final_simplex: (array([[6.507e+02, 1.626e+04, ..., 1.965e+00,
           2.638e+00],
          [6.507e+02, 1.626e+04, ..., 1.965e+00,
           2.638e+00],
          ...,
          [6.507e+02, 1.626e+04, ..., 1.965e+00,
           2.638e+00],
          [6.507e+02, 1.626e+04, ..., 1.965e+00,
           2.638e+00]]), array([1.652e+00, 1.652e+00, ..., 1.652e+00, 1.652e+00]))