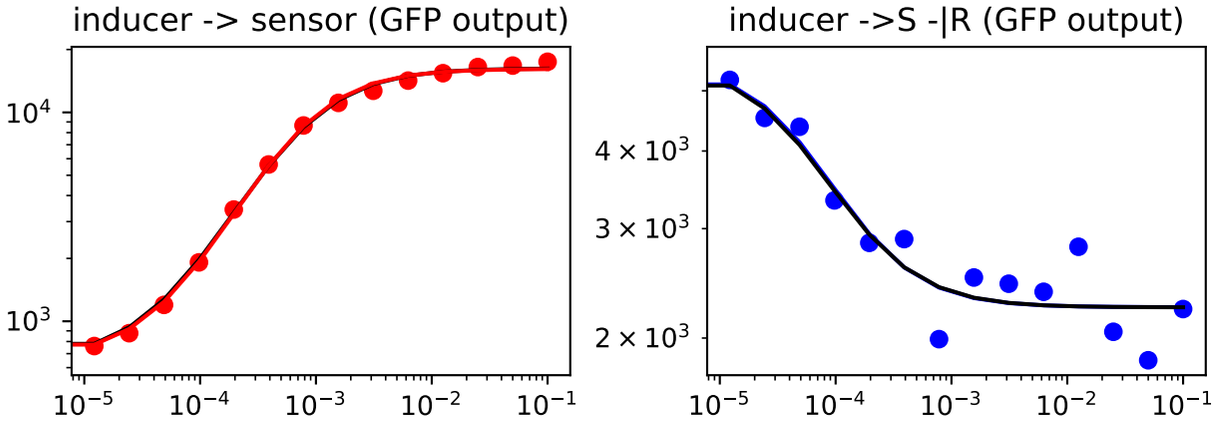
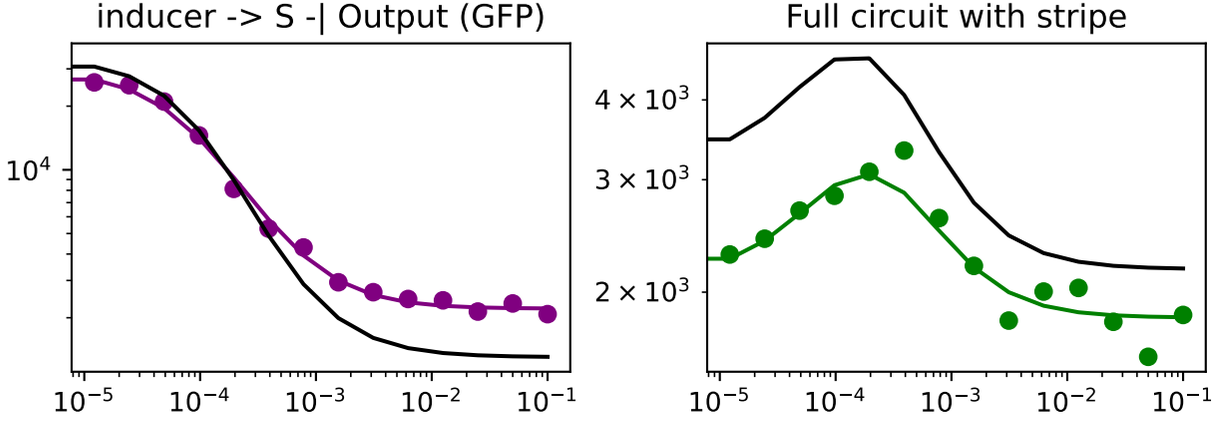
['SM data type data plots for mutation', 'Output10', 'using model:', 'model']



time elapsed for this fit
--- 10.111695051193237 seconds ---



Across all four plots:

RSS (converged)=0.063

RSS (initial)=0.735

RSS (% reduction)=0.921

	epsilon	Initial_guesses	Converged
A_s	7.018094	650.714912	6.577330e+02
B_s	-97.967161	16259.979950	1.616201e+04
C_s	40.262563	1296.448889	1.336711e+03
N_s	0.034405	1.154067	1.188472e+00
A_r	0.000000	2020.019216	2.020019e+03
B_r	0.000000	23688.809187	2.368881e+04
C_r	0.000000	0.010358	1.035760e-02
N_r	0.000000	0.910072	9.100723e-01
A_h	-143.802212	143.802212	3.457881e-12
B_h	24106.454139	50238.271408	7.434473e+04
C_h	0.001434	0.000929	2.363492e-03
A_o	1.473082	1.673894	3.146977e+00
B_o	0.718893	0.895342	1.614234e+00
C_o	0.972755	2.657699	3.630453e+00
N_o	-0.422741	1.379953	9.572119e-01
F_o	-1.612058	2.361284	7.492255e-01

```
     message: Optimization terminated successfully.
     success: True
      status: 0
         fun: 0.06294499394528036
           x: [ 6.577e+02  1.616e+04 ...  9.572e-01  7.492e-01]
         nit: 3385
        nfev: 4557
final_simplex: (array([[ 6.577e+02,  1.616e+04, ...,  9.572e-01,
                         7.492e-01],
                       [ 6.577e+02,  1.616e+04, ...,  9.572e-01,
                         7.492e-01],
                       ...,
                       [ 6.577e+02,  1.616e+04, ...,  9.572e-01,
                         7.492e-01],
                       [ 6.577e+02,  1.616e+04, ...,  9.572e-01,
                         7.492e-01]]), array([ 6.294e-02,  6.294e-02, ...,  6.294e-02,  6.294e-02]))
```