Converged 4×10^{3} 3×10^{3} 10^{3} 2×10^3 time elapsed for this fit --- 17.58650517463684 seconds --- 10^{-1} 10^{-3} 10^{-4} 10^{-3} 10^{-5} 10^{-4} 10^{-2} 10^{-2} 10^{-1} inducer -> S -| Output (GFP) Full circuit with stripe 6×10^{3} 4×10^{3} 10^{4} 3×10^{3} 10⁻⁵ 10⁻³ 10^{-2} 10^{-2} 10^{-4} 10^{-1} 10⁻⁵ 10⁻³ 10^{-1} 10^{-4} Across all four plots: RSS (converged)=1.264 RSS (initial)=1.584RSS (% reduction)=0.556 epsilon Initial guesses Converged message: Optimization terminated successfully. A_s 0.000000 650.714912 650.714912 success: True 0.000000 16259.979950 16259.979950 status: 0 1296.448889 1296.448889 0.000000 fun: 1.2639544451241065 0.000000 1.154067 1.154067 x: [6.507e+02 1.626e+04 ... 1.745e+00 2.632e-01] A r -1428.167962 2020.019216 591.851254 nit: 6749 Br -8872.474093 23688.809187 14816.335094 nfev: 9199 C_r 0.006010 0.010358 0.016368 final simplex: (array([[6.507e+02, 1.626e+04, ..., 1.745e+00, -0.490137 0.910072 Νr 0.419935 2.632e-011, 51.913700 143.802212 195.715912 [6.507e+02, 1.626e+04, ..., 1.745e+00, B h 28069.984493 50238.271408 78308.255901 2.632e-01], Ch -0.000799 0.000929 0.000130 1.887949 1.673894 3.561844 [6.507e+02, 1.626e+04, ..., 1.745e+00, Αо 0.614989 0.895342 1.510331 Во 2.632e-01], C_0 [6.507e+02, 1.626e+04, ..., 1.745e+00, 2.766145 2.657699 5.423843 0.365542 1.379953 1.745495 2.632e-01]), array([1.264e+00, 1.264e+00, ..., 1.264e+00, 1.264e+00]))

inducer -> S - | R (GFP output)

Initial Guess

Converged Converged

Converged

['SM data type data plots for mutation', 'Sensor8', 'using model:', 'model']

2.361284

0.263186

-2.098098

inducer -> sensor (GFP output)

 10^{4}