

Errata for B. Ingalls "Mathematical Modeling in Systems Biology", MIT Press, 2013

page 36, missing parentheses. The term  $hf(a(n-1)h)$  should read  $hf(a((n-1)h))$

page 64, the reference to aspirin as a competitive inhibitor is incorrect. It should refer to ibuprofen. (Aspirin acts as an acetylating agent on the same enzyme.)

page 147, the kinetics for  $V_{MATI}$  are stated incorrectly. The factor  $(1+[AdoMet]/K_{iMATI})$  should multiply only the  $(K_{mMATI}/[Met])$  term in the denominator (rather than multiplying the whole denominator, as written).

page 155, problem 5.6.6 (b), "METIII" should say "MATIII"

page 179, caption of Figure 6.3, the value of  $k_3$  should be 2 (not 3 as printed)

page 181, caption of Figure 6.5, the value of  $k_{Gd0}$  should be 0.11 (not 0.004 as printed)

page 200, caption of Figure 6.18. Initial conditions (both panels) all zero except unbound receptor concentration equal to one ( $[R]=1$ ).

page 218, figure 6.24: missing second P on MAPK-PP (just upstream of the response). Also, missing value for  $K_{M6}$  (=15).

page 219, Problem 6.8.9 (a) and (b), references to figure 6.3 should be references to figure 6.14

page 230, last line should read "RNA polymerase will find its way to the promoter."

page 241, caption of figure 7.7, the value of  $R_T/K_1$  is 213.2 (mistakenly printed as the product  $R_T*K_1$ ).

page 258, caption of Figure 7.19, the values of the parameters  $K_3$  and  $K_4$  should be reported as 2 $\mu$ M

page 261, typo: 'Collin's toggle switch' should read 'Collins toggle switch'

page 263, caption of figure 7.23, the value for  $\gamma_y$  should be 0.012, not 0.06.

page 265, Display (7.24), in the equation for  $d/dt I$ , the function  $R^*$  is missing its explicit time dependence in the numerator.

page 266, stray left parenthesis in the legend of figure 7.25

page 269, caption of Figure 7.28, value of  $b_C$  should be 0.3 (not 0.07 as printed)

page 288, exercise 7.6.4 should refer to the deterministic (mass action-based) model of the system described near the bottom of page 286 (A→B, B→A).

page 303, problem 7.8.14, line 8, the value of  $\gamma_y$  should be 0.16, not 1.

page 324, caption of Figure 8.6, the values of the parameters  $V^*_w$  and  $\theta_m$  are interchanged. The values should be  $V^*_w=2$ ,  $\theta_m=18$