Stryer: BIOCHEMISTRY, Fifth Edition

ERRATA

p. xiv — *Authors of* Clinical Companion *should be:* Kirstie Saltsman, Ph.D., Jeremy M. Berg, M.D., and Gordon Tomaselli, M.D.

p. xxviii — *Title of §16.3.6 should be:* Six High Transfer Potential Phosphoryl Groups Are Spent in Synthesizing Glucose from Pyruvate

p. 19 — *Figure legend, line 5: mediteranei* should be *mediterranei*

p. 23 — *§2.2.2, line 19:* mg^{2+} ion or other ions *should be* Mg^{2+} or other ions

p. 28 — *In flow of sequence information,* Linear nucleic acid *should appear under* DNA *and under* RNA, *not under arrows.*

Figure credit should be: Courtesy of Gregory J. Gatto, Jr.

p. 52 — *Figure 3.19, line 3 of legend:* Try *should be* Tyr

p. 65 — *Figure 3.53,* Denatured reduced ribonuclease: *At* 26, *bond should be to* S, *not* H.

p. 67 — *Lines 3 and 4 from bottom:* PrP^{SC} *should be* PrP^{Sc}

p. 71 — *Figure 3.60, line 5 of legend:* Try *should be* Tyr

p. 75 — *Problem 1, line 3:* question mark *should be* period

p. 76 — *Problem 13, line 3: Insert* -ASN *so line reads* Gly-Ser-Cys-Ile-Glu-Asn-Cys-Glu-Ile-Ser-Gly-Arg-Glu-Ala-Thr.

Problem 16, line 1, should be: Concentrate on the concentration.

p. 85 — *Figure 4.11, panels (A) and (B):* Low pH (+) *should be at left,* High pH (–) *at right.*

p. 86 — *Figure 4.12(A): Label at top should be* Low pH (+)

p. 95 — *Figure 4.25, line 2 of legend:* chymotrypic *should be* chymotryptic

p. 109 *Last line:* revolving *should be* resolving

p. 115 *Table, line 2:* $(NH)_4SO_4$ *should be* $(NH_4)_2SO_4$

p. 133 *§5.5, point 2, line 4:* EFG *should be* DEF

p. 147 *Figure 6.4, arrow label:* dTTP *should be* TTP

p. 156 *Figure 6.20,* Potential oligonucleotide sequences: *second group should be:*

$$CC\begin{matrix}A\\C\\G\\T\end{matrix}$$ [ALL ROM; DELETE BAR; EQ SPACE]

P. 157 *Line 4 and Figure 6.21 label:* replication *should be* replicating

p. 158 *Figure 6.4,* Double-stranded cDNA: *Top structure should be blue; bottom structure should be green. In bottom structure, right end should be* 3′.

p. 170 *Problem 13,* Northern blots *diagram: For person B, RNA probe should be at level of RNA probe for person A.*

Question in last line of first paragraph should read: Is this percentage of identity significant?

p. 182 *Figure 7.17,* Subtilisin: Ser 64 *should be* Ser 221; His 57 *should be* His 64

p. 190 *Table 8.1; the third and fourth column heads should be:* Uncatalyzed rate (k_{un}, s^{-1}); Catalyzed rate (k_{cat}, s^{-1}).

p. 197 *Line 14:* [S] = 1M *should be* [S] = 1 M

p. 198 *Point 3, line 9:* quenches *should be* reduces

§8.3.2, point 1: First sentence should be in italic type up to the dash.

p. 199 *Line 1:* residues numbered 35, 52, 62, 63, and 101 *should be* residues numbered 35, 52, 62, 63, 101, and 108

p. 200 *Point 5, line 8:* site *should be* sites

p. 202 *Equation (19) should be:*

$$[ES] = \frac{[E]_t[S]/K_M}{1+[S]/K_M}$$ [ALL TERMS S/B ROM]

p. 203 *Line 11:* $(V_{max}/K_M)/[S]$ *should be* $(V_{max}/K_M)[S]$

p. 206 *Line 6:* k_1, k_{-1}, and k_2 *should be* k_1, k_{-1}, and k_{cat}

Equation (30) should be:

$$\frac{k_{cat}}{K_M} = \frac{k_{cat}}{(k_{-1}+k_{cat})/k_1} = \frac{k_{cat}}{k_{cat}+k_{-1}}k_1 < k_2$$ [SUBS (ONLY) S/B ROM]

Line 18: triosephosphate *should be* triose phosphate

p. 211 *Line 3:* iodoactemide *should be* iodoacetamide

Line 4: 27 *should be* 28

p. 217 *Table 8.1: Interchange entries for* Vitamin A *and* Vitamin E.

p. 225 *Problem 13: Delete vertical line in graph.*

p. 239 *Figure 9.20,* Peptide substrate: *Red bond should be black; bond to*
N
| *in center of structure should be red.*
H

p. 252 *Figure 9.45, line 2 of legend:* interconversion of nucleoside triphosphate *should be* interconversion of a nucleoside triphosphate

p. 267 *§10.1.3, line 6 from bottom:* Michaelis-Menton *should be* Michaelis-Menten

§10.1.3, line 3 from bottom: close to one other *should be* close to one another

p. 281 *Figure 10.32, arrow label:* Chymotrypsin *should be* π-Chymotrypsin

p. 282 *§10.5.3, title:* Tryspinogen *should be* Trypsinogen

p. 301 *Figure 11.9,* Sialic acid (Sia): H *at far right should be* OH

p. 310 *Line 14:* acetylglucosamines *should be* acetylglucosamine

p. 347 *Figure 13.2(B): Axis label* Membrane potential (mV) *should be red.*

p. 358 *Figure 13.20: All red loops should enter the helices.*

p. 375 *Line 3 from bottom:* the reactant products *should be* the reactant and products

p. 393 *Problem 7: Delete* How would you test your hypothesis?

p. 404 Phosphatidyl inositol 4,5-bisphosphate (PIP_2) *structure:* OH—— *at left should be* HO——

p. 406 *Figure 15.14: Interchange structures of* Inositol 1,4,5-trisphosphate *and* Inositol 1,3,4-trisphosphate; *leave labels in place.*

p. 417 *Line 9 from bottom:* that 90% *should be* than 90%

p. 418 *§15.5.1, line 6:* that 90% *should be* than 90%

p. 422 *Key Terms, column 2, line 2:* (GCPR) *should be* (GPCR)

pp. 436–437 *Table 16.3: Entry for* Step 6 *in last column should be* –0.4 (–1.7).

p. 438 *Line 2:* –47 kcal mol^{-1} (–197 kJ mol^{-1}) *should be* –21 kcal mol^{-1} (–88 kJ mol^{-1})

p. 439 *Figure 16.12: In* Glyceraldehyde 3-phosphate dehydrogenase *reaction, add arrowhead pointing to* $NADH + H^+$.

p. 446 *Line 25:* $G_s\alpha$ *should be* $G_{\alpha s}$

Figure 16.20: $G_s\alpha$ *should be* $G_{\alpha s}$

p. 455 *Title of §16.3.6 should be:* Six High Transfer Potential Phosphoryl Groups Are Spent in Synthesizing Glucose from Pyruvate

p. 459 *Line 8 from bottom:* summized *should be* summarized

p. 463 Historical aspects; Fruton, J. S., *reference should be:* Fruton, J. S., 1999. *Proteins, Enzymes, Genes: The Interplay of Chemistry and Biology.* Yale University Press.

p. 470 *Figure 17.7:* $E_1(\alpha_3)$ *should be* $E_1(\alpha_2\beta_2)$, *in black;* $E_2(\alpha_2\beta_2)$ *should be* $E_2(\alpha_3)$, *in red.*

p. 480 *Figure 17.17: Interchange* CO_2 *and* CoA; *add arrowhead to* CO_2 *in new position; delete connection from* Acetyl CoA *to* Kinase.

p. 509 *§18.3.7, line 5 from bottom:* Emanual *should be* Emanuel

p. 515 *Figure 18.38: At top of figure, reverse arrow between* Oxaloacetate *and* Malate.

p. 519 *§18.6.3, line 10:* (N^{3-}) *should be* (N_3^-)

p. 537 *Figure 19.17, line 2:* histadine *should be* histidine

p. 550 *Problem 10, graph: In key,* Π + + DDT + thioredoxin *should be* Π + DDT + thioredoxin; *x axis label should be* Dithiothreitol (DDT), mM

p. 584 *Figure 21.10: Reaction arrow labels for* R state *and for* T state *should be* 2 ATP; 2 ADP.

p. 585 *Figure 21.11: Reaction arrow labels should be* 2 AMP; 2 ATP; 2 glucose 6-phosphate.

Figure 21.12: Reaction arrow label should be 2 glucose.

p. 590 *Third structure should be labeled* UDP.

p. 597 *Second bulleted point, line 2:* TTM *should be* 7TM.

p. 610 *Top structure in margin should be labeled* Palmitoleoyl CoA.

p. 632 *Problem 19, panel (C): Interchange* Wild type *and* Mutant *labels.*

p. 645 *Line 9:* discussed in Chapter 24 *should be* discussed in Chapter 25

p. 665 *Oxygen atoms in* Glutamate *structure should be red. There should be two nitrogen atoms in* N_2 *structure at left.*

p. 688 *Figure 24.35:* Protoporhyrin IX *should be* 4 Protoporphyrin IX

p. 692 *Problem 11; add, following the problem title:* Consider the branched pathway above.

p. 770 *Figure 24.7: Label middle pathway* Direct repair

p. 788 *Line 18:* comma *should be* semicolon

p. 797 *Figure 28.23,* Mature tRNA: Anticondon *should be* Anticodon

p. 806 *Line 13: Delete* from

p. 840 *First bulleted point, line 8:* an the incorrect amino acid *should be* an incorrect amino acid

p. 844 *Problem 19: All instances of* eIF4 *in text and in panel (A) should be* eIF4A.

p. 847 *Point 2, line 9:* concentration *should be* concentrations

p. 850 *Point 2, line 9: Delete closing parenthesis.*

p. 852 *Table 30.1: Entry for* Liver *in* Glucose or glycogen *column should be* 400(1700).

p. 869 *Figure 31.2: Last word of legend should be* lactose.

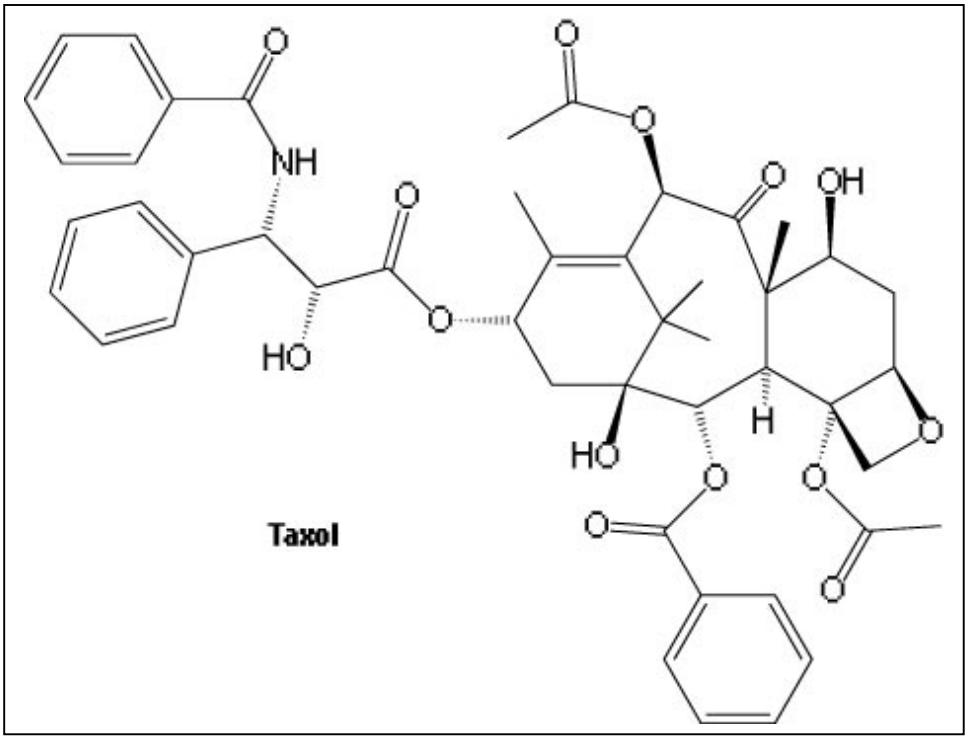
p. 877 *Line 2 from bottom:* 5′-GCC-3′ should be 5′-CGG-3′

p. 882 *Figure 31.25:* LLXXL *should be* LXXLL

p. 887 *Figure 31.34, legend: Line 6 should read* leader encodes two tryptophan residues and has

Figure 31.34, line 9 of legend: atenuator *should be* attenuator

p. 964 Taxol *structure should be:*



p. 973 *Problem 6:* Open and Shutt case *should be* Open and Schutt case

p. C1 *Problem 13: Remove parentheses.*

p. C6 *Problem 14, lines 1 and 2:* E_A *should be* E_B; E_B *should be* E_C.

Problem 15: Move part label (b) *to bottom graph.*

p. C14 *Problem 11:* Dicylohexylcarbodiimide *should be* Dicyclohexylcarbodiimide