

Microbes Count! – Notes and Corrections

8/26/03

Be sure to check the *Microbes Count!* web site <<http://bioquest.org/microbescount>> for late-breaking information and corrections. Additional notes and new resources will also be posted on the website as they become available.

Chapter 1

Modeling More Mold

- Pages 34 and 35. The equations for linear growth, exponential growth, and logistic growth are incorrect in the printed book. The equations should read:

$$\text{Linear Growth: } N(t + 1) = N(t) + D$$

$$\text{Exponential Growth: } N(t + 1) = N(t) + r \cdot N(t)$$

$$\text{Logistic Growth: } N(t + 1) = N(t) + \frac{r \cdot N(t) \cdot [K - N(t)]}{K}$$

This has been corrected in the “Modeling More Mold.pdf” file that is available on the *Microbes Count!* web site <<http://bioquest.org/microbescount>>. The “Modeling More Mold.pdf” file that is included on the *Microbes Count!* CD includes some, but not all, of these corrections.

- Page 34. The line immediately below the linear growth equation on page 34 reads:
“where $N(t)$ represents the numbers or size of the system at time t , $N(t) + 1$ ”;
it should read
“where $N(t)$ represents the numbers or size of the system at time t , $N(t + 1)$ ”.

This has been corrected in the “Modeling More Mold.pdf” file that is available on the *Microbes Count!* CD and on the web site <<http://bioquest.org/microbescount>>.

Chapter 4

Exploring HIV Evolution – An Opportunity for Research

- Page 138. In the third line of main text on page 138, the word “fir~~st~~” should read “first”.
- Page 144. In Table 3, the statistics S and \square are most meaningful when applied to contemporaneous sequence data. The first sentence on page 144 should therefore read “Select all the clones from **a single visit** of one subject and align them.” Similarly, the second text box on page 144 should read “Calculate \square for the three **visits** you chose to work with...”.

Chapter 9

Mold Fights Back: A Challenge for Sanitation

- Page 267. In the list of authors, the spelling of Dr. Eli Meir’s name is incorrect. It should be corrected from “Mier” to “Meir”.

A Plague on Both Houses – Modeling Viral Infection to Control a Pest Outbreak

- Page 290. The following sentence has been deleted in the PDF version on the *Microbes Count!* CD: “(For instance, cell B1006 will display in red if \square is too large.)”
- Page 291. The instructions for disabling automatic calculation in an *Excel* spreadsheet only apply to *Excel 2001*. The following information has been added to the PDF version of the activity on the *Microbes Count!* CD:
“Note that these instructions apply to *Excel 2001*. For other versions of *Excel*, consult the Help Index for instructions on how to disable automatic recalculation.”

Chapter 10

Controlling Potato Blight: Past, Present, and Future

- Page 299. Philip Arneson, Cornell University, was inadvertently omitted from the list of authors. The list should read “Ethel D. Stanley and Philip Arneson”.