

Name _____

Period _____

Ms. Foglia - AP Biology

Date _____

LAB 22. DNA RESTRICTION ENZYME SIMULATION

In this exercise you will use the computer to simulate the Lambda DNA restriction digests that you will also perform in the laboratory. Using the results from the computer simulation and your actual restriction digests, you will answer a series of questions designed to help you interpret the results of your DNA digests.

1. Download and SAVE the Lambda DNA sequence from the BiologyZone Web site: http://bio.kimunity.com/ap_biology/labs/lambdaDNA.doc
2. Save the file to your computer or to a disk.
3. Open the saved file in Microsoft Word. It contains the entire phage Lambda DNA sequence, or genome. Browse through the file. Notice how the file is simply a long string of the letters A, C, G and T.

Question 1

What does each of these letters represent?

4. Now determine how many letters there are in the genome. To do this:
 - a. From the EDIT menu, choose SELECT ALL
 - b. Under the TOOLS menu, choose WORD COUNT
 - c. Note the number of characters.

Question 2

What is the size of the Lambda genome:

- a. in bases? _____
- b. in kilobases? (note: 1 Kb = 1,000 bases) _____

5. Click OK to close the window.

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RM Cervero



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The Science Teacher ,1991 *The Proceedings of the 2002 Summer Computer Simulation Conference* Jeffrey Wallace,2002 **Evolutionary Computation in Bioinformatics** Gary Fogel,David W. Corne,2003 This book offers a definitive resource that bridges biology and evolutionary computation The authors have written an introduction to biology and bioinformatics for computer scientists plus an introduction to evolutionary computation for biologists and for computer scientists unfamiliar with these techniques *Addison-Wesley Biology* Addison Wesley,1996-04 **The American Biology Teacher** ,2003 Biology ,1993 **Cumulated Index Medicus** ,1993 Biomedical Index to PHS-supported Research ,1988 **Exploring Genetics and Developmental Biology Using Multideimensional[multidimensional] Manipulatives and Biotechnology Laboratories** Danida Dawn Saffron,2001 **Teaching Genetics in an Introductory Biology Course** Kristina A. Porter,2004 **Scientific and Technical Aerospace Reports** ,1969 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database **The Software Catalog** MENU Staff,Menu,1987 Laboratory Techniques in Biochemistry and Molecular Biology Thomas Spence Work,Elizabeth Work,1969 *The Role of Data in Scientific Progress* Phyllis S. Glaeser,1985 *String Processing and Information Retrieval Symposium and International Workshop on Groupware* ,1999 This text contains proceedings from the 1999 String Processing and Information Retrieval Symposium SPIRE 99 and the 1999 International Workshop on Groupware CRIWG 99 It is aimed at professors researchers practitioners students and other computing professionals Proceedings of the National Academy of Sciences of the United States of America National Academy of Sciences (U.S.),National Academy of Sciences (U.S.),1989-05 Horticultural Abstracts ,1995 *Japanese Technical Periodical Index* ,1986 *EPA Publications Bibliography* ,1993 **Agrindex** ,1995

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In a digitally-driven earth where displays reign supreme and quick interaction drowns out the subtleties of language, the profound secrets and emotional subtleties concealed within words usually move unheard. Yet, located within the pages of **Biology Lab 10 Restriction Enzyme Simulation Answers** a fascinating literary value pulsating with fresh emotions, lies a fantastic journey waiting to be undertaken. Published by an experienced wordsmith, this enchanting opus invites visitors on an introspective journey, lightly unraveling the veiled truths and profound influence resonating within the very cloth of each word. Within the emotional depths of this touching evaluation, we can embark upon a sincere exploration of the book is primary themes, dissect their fascinating writing type, and yield to the powerful resonance it evokes heavy within the recesses of readers hearts.

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