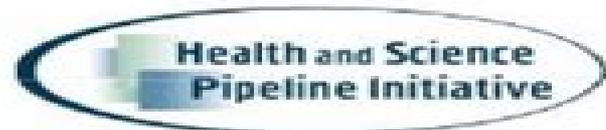


HASPI Medical Biology Lab 20

HIV Transmission

Teacher Information



Description

Students will exchange fluids in a simulation of disease transmission. This lab is specifically simulating HIV transmission, but could be used for any disease transmitted through the sharing of fluids. Each student will be given a numbered vial and exchange fluids with 5 other students in the class. One vial will contain sodium hydroxide that is not visible and acts as simulated HIV. This will be followed by a simulated "HIV test" in which the students will use a drop of phenolphthalein, and any vials that have had sodium hydroxide transferred to them will turn pink indicating contamination with HIV. Students follow up by tracing back to determine who transferred the virus to them and what their treatment options may be. The background information includes an overview of the development, discovery, and treatment options for HIV. Students will also review what effect HIV can have on the immune system.

Objectives

1. Observe how simulating the sharing of fluids demonstrates the mode of transmission for HIV and other transmittable diseases.
2. Understand the importance of the cells of the immune system and how a compromised immune system will affect overall immunity.
3. Understand how vaccinations can work to enhance the body's immune system against infectious diseases.
4. Correlate how the Human Immunodeficiency Virus (HIV) can cause Autoimmune Deficiency Syndrome (AIDS).
5. Understand the history of HIV development, discovery, and treatment options.

CA Biology State Standards

10b. Students know the role of antibodies in the body's response to infection.

10c. Students know how vaccination protects an individual from infectious diseases.

10d. Students know there are important differences between bacteria and viruses with respect to their requirements for growth and replication, the body's primary defenses against bacterial and viral infections, and effective treatments of these infections.

10e. Students know why an individual with a compromised immune system (for example, a person with AIDS) may be unable to fight off and survive infections by microorganisms that are usually benign.

10f.* Students know the roles of phagocytes, B-lymphocytes, and T-lymphocytes in the immune system.

Time: 40-50 minutes

After passing out the vials and droppers to each student they will take 3 minutes to exchange information and fluids with a partner, then rotate to a new partner. A total of 5 partners' vial/fluids will be exchanged with each other, for a total of 15 minutes followed by the "HIV test", which should take about 5 minutes. Post-lab review and questions will take an additional 20-30 minutes, but could be done as homework.

Haspi Medical Biology Lab 20

Clemens Wendtner



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Table of Contents Haspi Medical Biology Lab 20

1. Understanding the eBook Haspi Medical Biology Lab 20
 - The Rise of Digital Reading Haspi Medical Biology Lab 20
 - Advantages of eBooks Over Traditional Books
2. Identifying Haspi Medical Biology Lab 20
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Haspi Medical Biology Lab 20
 - User-Friendly Interface
4. Exploring eBook Recommendations from Haspi Medical Biology Lab 20
 - Personalized Recommendations
 - Haspi Medical Biology Lab 20 User Reviews and Ratings
 - Haspi Medical Biology Lab 20 and Bestseller Lists
5. Accessing Haspi Medical Biology Lab 20 Free and Paid eBooks
 - Haspi Medical Biology Lab 20 Public Domain eBooks
 - Haspi Medical Biology Lab 20 eBook Subscription Services

- Haspi Medical Biology Lab 20 Budget-Friendly Options
- 6. Navigating Haspi Medical Biology Lab 20 eBook Formats
 - ePub, PDF, MOBI, and More
 - Haspi Medical Biology Lab 20 Compatibility with Devices
 - Haspi Medical Biology Lab 20 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Haspi Medical Biology Lab 20
 - Highlighting and Note-Taking Haspi Medical Biology Lab 20
 - Interactive Elements Haspi Medical Biology Lab 20
- 8. Staying Engaged with Haspi Medical Biology Lab 20
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Haspi Medical Biology Lab 20
- 9. Balancing eBooks and Physical Books Haspi Medical Biology Lab 20
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Haspi Medical Biology Lab 20
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Haspi Medical Biology Lab 20
 - Setting Reading Goals Haspi Medical Biology Lab 20
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Haspi Medical Biology Lab 20
 - Fact-Checking eBook Content of Haspi Medical Biology Lab 20
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

-
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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