

***The Laboratorian* – Volume 6, Issue 3**
Lab Tour: 2015 Lab Week Scavenger Hunt
Answer Key

1. What chemical smells like geraniums and was a weapon of mass destruction during the 1910's?
Answer: Lewisite
2. A particular section in the Lab uses the Hemadsorption test to detect the presence of hemagglutination. A negative result for this test is indicated by what?
Answer: Free floating Red Blood Cells (RBCs)
3. What product was implicated in a 2010 outbreak of Listeriosis in Texas that resulted in 5 deaths?
Answer: Celery or diced celery
4. What are the most common causes of TB transmission?
Answer: Coughing and sneezing
5. Name an area in or around your home where lead might be found.
Answer: water lines and plumbing, window sills, doors, soil, vinyl mini blinds, baseboards and walls, painted surfaces, fences and porches, stairs and bannisters
6. The DSHS Media Prep Team supplies media for how many departments in the Lab?
Answer: 11 internal
7. SCID is currently the only disorder newborn screening screens for that is completely curable. What is the treatment for a baby diagnosed with SCID?
Answer: Bone marrow transplant or enzyme replacement therapy
8. What percentage of bats submitted for rabies testing (because they are downed or sick) are positive for rabies at DSHS?
Answer: Approximately 15% of submitted bats are positive for rabies
9. What is the most common source of radionuclides in Drinking Water?
Answer: Most are “naturally occurring,” such as in certain types of rock
10. Name one of the 4 most common mutations found in Galactosemia?
Answer: N314D, Q188R, S135L, K285N
11. Where is hemoglobin E most prevalent?
Answer: Southeast Asia
12. FDA has set a gluten limit of less than 20 ppm for foods to be labeled “gluten-free”. What area of the Laboratory analyzes food samples for Gluten?
Answer: Inorganic Chemistry
13. Which strain of rabies has been eradicated in Texas?
Answer: Coyote rabies or Domestic Dog/Coyote (DDC) rabies has been eradicated in TX. Texas Fox (TF) has been gone for a couple of years so that would be an acceptable answer, as well.

Lab Tour: 2015 Lab Week Scavenger Hunt

Answer Key

14. Name three sources of exposure to radiation from everyday activities.

Answer: Where you live; what you eat and drink; airline travel; computer usage; smoking; medical diagnostic testing

15. What is the function of hemoglobin the human body?

Answer: Hemoglobin enables RBCs to bind to oxygen in the lungs and carry it to tissues and organs throughout the body.

16. What are the 4 main molecular techniques used in our lab to help track disease outbreaks?

Answer: PCR, PFGE, Molecular and Conventional Serotyping, WGS

17. List 3 reasons why it is important to have an arbovirus surveillance program.

Answer:

- Determine the prevalence of arboviruses in nature
- Monitor geographic & temporal spread of arboviruses
- Provide data to local & state mosquito control programs to develop prevention/control measures
- Provide information to local health officials & physicians of the potential for human infection
- There is no anti-arboviral therapy available
- There is no vaccine readily available to the general public
- Inform the general public so that they can take proper precautions to avoid contact with mosquitoes
- Prevents potential outbreaks