Week 7 Assignment 7

The due date for submitting this assignment has passed.
For now on the material you have not read this lesson.

Week 7

Course outline

1. Why is the following an open source data format for mass spectrometry?
   - IDA file format of MS instrument file
   - mdat format of MS instrument file
   - open format of MS instrument file
   
   No, the answer is incorrect.
   
   Accepted Answers:
   - IDA file format of MS instrument file

2. Why is the following the biggest hurdle for the person who is managing public repository?
   - Data acquisition
   - Data generation
   - Data validation
   - Data sharing
   
   No, the answer is incorrect.
   
   Accepted Answers:
   - Data sharing

3. Which of the following resources provides access to protected genomic data from ONTAP? Program?
   - Database of Genes and Proteins
   - The Cancer Genome Atlas
   - Genotype-phenotype resources
   - Database of Genes and Phenotypes
   
   Yes, the answer is incorrect.
   
   Accepted Answers:
   - Database of Genes and Phenotypes

4. Which of the following is NOT the use of data sharing?
   - Role of data
   - Phenotypic data
   - Genotypic data
   - Data reduction
   
   No, the answer is incorrect.
   
   Accepted Answers:
   - Role of data

5. Which of the following is the largest public data resource for proteostatic data?
   - The Human Proteome Atlas
   - The Cancer Genome Atlas
   - The Cancer Gene Reference Atlas
   - The Cancer Genome Atlas
   
   No, the answer is incorrect.
   
   Accepted Answers:
   - The Human Proteome Atlas

6. What is the selection provided for "T" in Fasta format for data submission?
   - Submission of the file's sequence of data
   - Submission of the file's sequence of data
   - Submission of the file's sequence of data
   - Submission of the file's sequence of data

   Yes, the answer is incorrect.
   
   Accepted Answers:
   - Submission of the file's sequence of data

A researcher performed an MRM experiment for a peptide K within the use of a synthetic peptide. During data analysis using Skyline, he used a library generated from its discovery phase experiments. From the figures below, answer the questions 7 to 10.

![Graph with three peaks]

7. Which among the following is the right graph? (Enrich: check the data result)
   - Peak at 52.8
   - Peak at 56.7
   - Peak at 53.1
   - In sufficient information to interpret

   No, the answer is incorrect.
   
   Accepted Answers:
   - Peak at 53.1

8. Which of the following is NOT the best explanation for your answer to question 7?
   - There are many good transitions for the peak
   - The intensity of the correct peak is the lowest
   - The intensity of the peak is the highest
   - The intensity of the peak is the highest

   No, the answer is incorrect.
   
   Accepted Answers:
   - The intensity of the peak is the highest

9. Why were you able to perform the same experiment, what steps would you change to get better results?
   - Change the LC gradient for better separation
   - Use a complementary library and use fragment information for identifying the correct peak
   - Use a complementary library and use fragment information for identifying the correct peak
   - All above

   Yes, the answer is incorrect.
   
   Accepted Answers:
   - All above

10. Which of the following steps can the software Skyline be used?
    - Choosing an ionization format
    - Data analysis
    - Data Augmentation
    - Liquid Chromatography gradient optimization

    No, the answer is incorrect.
    
    Accepted Answers:
    - Choosing an ionization format

Downloaded Files

- Unknown file type
- Compressed file
- Text file
- Image file

No, the answer is incorrect.

Accepted Answers:
- Text file