Week 3 Assignment 3

Due on 2019-06-21, 23:59 IST.

1) Which of the following techniques is most useful in analyzing gene expression data? 1 point
   A) Northern blotting
   B) Western blotting
   C) Microarray
   D) All of the above

   No. The answer is incorrect.
   Additional Answer
   Microarray
   Gene expression differences in S. cerevisiae (Saccharomyces cerevisiae)

2) Which of the following is NOT an abundance-based sequencing approach? 1 point
   A) Direct Sequencing
   B) Nucleic Acid Proportional Proportion Analysis (NAPPA)
   C) Sanger-based sequencing
   D) Reference-Phase Proportion Profiling

   No. The answer is incorrect.
   Additional Answer
   Sanger-based sequencing
   Gene expression differences in S. cerevisiae (Saccharomyces cerevisiae)

3) For a peptide sequence of 8 amino acids, which of the following sets of totoe tryptic peptides represent the same amino acid? 1 point
   D) None of the above

   No. The answer is incorrect.
   Additional Answer
   Gene expression differences in S. cerevisiae (Saccharomyces cerevisiae)

4) Which of the following sets indicates the carboxy terminal of peptide sequence? 1 point
   A) 1, 2, 3, 4, 5, 6, 7
   B) 1, 2, 3, 4, 5, 6, 11
   C) 1, 2, 3, 4, 5, 6, 7, 8
   D) None of the above

   No. The answer is incorrect.
   Additional Answer
   1, 2, 3, 4, 5, 6, 7
   Gene expression differences in S. cerevisiae (Saccharomyces cerevisiae)

5) Phosphorylation can be found on which of the following amino acids? 1 point
   A) Serine, arginine, and proline
   B) Serine, arginine, and tyrosine
   C) Serine, threonine, and tyrosine
   D) Serine, threonine, and histidine

   No. The answer is incorrect.
   Additional Answer
   Serine, threonine, and tyrosine
   Gene expression differences in S. cerevisiae (Saccharomyces cerevisiae)

6) Which of the following is TRUE about mRNA splicing? 1 point
   A) Non-identical exons in the same place
   B) Identical exons in different places
   C) Identical exons in the same place
   D) None of the above

   No. The answer is incorrect.
   Additional Answer
   Identical exons in the same place
   Gene expression differences in S. cerevisiae (Saccharomyces cerevisiae)

7) How many significant transcriptional changes were made for HSP61? 1 point
   A) 1
   B) 2
   C) 3
   D) 4

   No. The answer is incorrect.
   Additional Answer
   1
   Gene expression differences in S. cerevisiae (Saccharomyces cerevisiae)

8) To which species does the protein with the highest score belong? 1 point
   A) S. cerevisiae
   B) A. thaliana
   C) A. thaliana
   D) None of the above

   No. The answer is incorrect.
   Additional Answer
   A. thaliana
   Gene expression differences in S. cerevisiae (Saccharomyces cerevisiae)

9) How many peptides were detected for the protein with the highest score? 1 point
   A) 1
   B) 2
   C) 3
   D) 4

   No. The answer is incorrect.
   Additional Answer
   1
   Gene expression differences in S. cerevisiae (Saccharomyces cerevisiae)

10) Identify the correct peptide sequence for the protein with the highest score. 1 point
    A) KQIAKRAT
    B) LQPYKRDGPAWAGNKDPRTNSKFGS
    C) KQIAKRAT
    D) LQPYKRDGPAWAGNKDPRTNSKFGS

   No. The answer is incorrect.
   Additional Answer
   LQPYKRDGPAWAGNKDPRTNSKFGS
   Gene expression differences in S. cerevisiae (Saccharomyces cerevisiae)