Unit 14 - Week 12

Assignment 12

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2019-04-24, 23:59 IST.

1) Western blotting is done to detect
   - a. Specific DNA
   - b. Specific RNA
   - c. Specific protein
   - d. Specific DNA-protein complex

No, the answer is incorrect.
Score: 0
Accepted Answers:
- c. Specific protein

2) In western blotting, the first step is to
   - a. run a SDS-PAGE
   - b. run an agarose gel
   - c. transfer the proteins in a membrane
   - d. add primary antibody to the sample

No, the answer is incorrect.
Score: 0
Accepted Answers:
- a. run a SDS-PAGE

3) The proteins of the sample are separated using
   - a. SDS-PAGE
   - b. Western blot
   - c. Protein purification
   - d. Immunoblot

No, the answer is incorrect.
Score: 0
Accepted Answers:
- a. SDS-PAGE
5) For DNA fingerprinting, which of the following techniques is used?

- a. Eastern blotting
- b. Western blotting
- c. Northern blotting
- d. Southern blotting

No, the answer is incorrect.
Score: 0

Accepted Answers:
- d. Southern blotting

6) Which technique is suitable for detecting a specific mRNA expression in cells?

- a. Northern blotting
- b. Southern blotting
- c. Western blotting
- d. Co-immuno precipitation

No, the answer is incorrect.
Score: 0

Accepted Answers:
- a. Northern blotting

7) In blotting techniques, a probe is

- a. a specific protein to detect DNA
- b. a short piece of labelled double stranded DNA which is complementary to a specific DNA
- c. a short piece of labelled single stranded DNA or RNA which is complementary to a specific DNA or RNA
- d. all of these

No, the answer is incorrect.
Score: 0

Accepted Answers:
- c. a short piece of labelled single stranded DNA or RNA which is complementary to a specific DNA or RNA

8) The non-specific sites on the nitrocellulose membrane can be blocked by

- a. Tween 20
- b. Sodium dodecyl sulfate
- c. Sodium chloride
- d. Rehydrated powder milk

No, the answer is incorrect.
Score: 0
9) Why the probe is labelled?  
   - a. Improve binding capability  
   - b. improve location identification  
   - c. improve visibility  
   - d. improve stability  
   **No, the answer is incorrect.**  
   Score: 0

10) What is the major force behind protein or nucleic acids to go out from the gel onto the membrane?  
   - a. electric current  
   - b. pH gradient  
   - c. pressure  
   - d. temperature  
   **No, the answer is incorrect.**  
   Score: 0

11) In Northern hybridization probe hybridization forms  
   - a. RNA-antibody hybrid  
   - b. DNA-DNA hybrid  
   - c. DNA-RNA hybrid  
   - d. All of the above  
   **No, the answer is incorrect.**  
   Score: 0

12) To detect the protein in Western blotting,  
   - a. antibody is used  
   - b. antigen is used  
   - c. DNA probe is used  
   - d. RNA probe is used  
   **No, the answer is incorrect.**  
   Score: 0

13) If you want to strip an already used membrane for western blotting which of the following membranes is best to use?  
   - a. Nitrocellulose  
   - b. PVDF
14. What will happen if you forget washing the membrane after incubation with primary and secondary antibody?

- a. Background noise will be very high
- b. Whole blot will be dark
- c. No specific band will be observed
- d. All of the above

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
b. PVDF

15. Why "ghost bands" appear in blots?

- a. Blocking was not done
- b. Too much protein has been loaded
- c. Incubation with primary antibody was too long
- d. Too much substrate for secondary antibody was added

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
b. Too much protein has been loaded  
c. Incubation with primary antibody was too long