Assignment 1

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

1) You want to study the function of a particular protein. Which type of microarray platform would you NOT prefer?

- NAPPA
- MIST
- Peptide arrays
- Antibody arrays

No, the answer is incorrect.
Score: 0
Accepted Answers:
Antibody arrays

2) Which one of the following does not involve cell-free expression?

- PISA
- MIST
- Reverse phase
- DAPA

No, the answer is incorrect.
Score: 0
Accepted Answers:
Reverse phase

3) Which of the following statement(s) about protein arrays is/are NOT true?

1. Can be used to study substrate specificity of protein kinases
2. Enable us to study post-translational modifications
3. Tissue, cell lysates can be directly spotted on a glass slide
4. Three dimensional (3D) conformation of proteins can never be preserved

1 point
No, the answer is incorrect.
Score: 0
Accepted Answers:
Only 4

4) Which one of the following statements about NAPPA array is/are NOT true? 1 point
1. Involves a process of printing DNA
2. Full length proteins cannot be printed using NAPPA
3. Can be used for serum screening
4. All cDNAs append a common epitope tag to all of the proteins

   - 1 and 2
   - Only 4
   - 1 and 3
   - Only 2

No, the answer is incorrect.
Score: 0
Accepted Answers:
Only 2

5) You have just printed a microarray slide. Your next step is to test whether the printing has worked. What of the following would you choose? 1 point

   - Anti-protein antibody
   - Picogreen stain
   - Malachite green stain
   - Anti-GST antibody

No, the answer is incorrect.
Score: 0
Accepted Answers:
Picogreen stain

6) What would you choose to know if your proteins are expressed on the slide? 1 point

   - Anti-protein antibody
   - Picogreen stain
   - Malachite green stain
   - Anti-GST antibody

No, the answer is incorrect.
Score: 0
Accepted Answers:
Anti-GST antibody

7) What does LIMS mean? 1 point

   - Laboratory instrument used for robotic plating
   - Software that automates workflows and manage samples and associated information
   - Machine commonly found in labs used for large-scale plasmid preps
   - Integrated laboratory system for expression of fusion proteins in cells

No, the answer is incorrect.
Score: 0
Accepted Answers:
Software that automates workflows and manage samples and associated information
8) You are a doctor and your friend tells you about his family's medical history for a particular disease. Which type of biomarker would you choose to test if he also has the disease at that moment?

- Early detection marker
- Prognostic marker
- Disease progression marker
- Risk marker

No, the answer is incorrect.
Score: 0
Accepted Answers:
Early detection marker

9) You are a scientist who is trying to study immune responses to a particular disease X using NAPPA arrays. Which of the following statements cannot be true?

1. Patients with disease X show signals for antigen A along with other antigens
2. Normal patients who do not have the disease also show signals for antigen A
3. Patients with disease Y (similar to disease X) will never show signals for antigen A
4. Two patients with disease X will always show signals for antigen A

2 and 4
1 and 2
1 and 3
3 and 4

No, the answer is incorrect.
Score: 0
Accepted Answers:
3 and 4

10) You have identified a possible biomarker for X disease. What will you do next to be very sure that it is indeed a biomarker?

- Compare cases and controls from the same population
- Compare age and gender matched cases and controls
- Perform a blinded study on patients from the population
- All of these

No, the answer is incorrect.
Score: 0
Accepted Answers:
All of these