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NPTEL

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Courses » **Applications of interactomics using Genomics and proteomics technologies**

Announcements   **Course**   Ask a Question   Progress   FAQ

Unit 1 - How to access the portal

Register for Certification exam

Course outline

How to access the portal

○ How to access the home page?

○ How to access the course page?

○ How to access the MCQ, MSQ and Programming assignments?

○ How to access the subjective assignments?

○ Quiz : Assignment 0

○ New Lesson

Week 1

Week 2

Week 3

Week 4

Week 5

Assignment 0

The due date for submitting this assignment has passed.
As per our records you have not submitted this **Due on 2019-02-25, 23:59 IST.**
assignment.

1) Immunoprecipitation experiment is a classic example of   *1 point*

○ DNA-protein interaction

○ Protein-protein interaction

○ Bead-protein interaction

○ All of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Protein-protein interaction

2) A cDNA library   *1 point*

○ can also be called an expressed sequence tag (EST) library

○ consists of coding sequences from genes that are expressed

○ is specific to the set of conditions under which the original mRNA was generated

○ all of these

No, the answer is incorrect.
Score: 0

Accepted Answers:
all of these

3) Yeast two hybrid system is used to study   *1 point*

○

Proteome

○

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Accepted Answers:
Interactome

4) NGS stands for   *1 point*

- ◯ Next Generation Standards
- ◯ Next Generation Sequencing
- ◯ Nucleic acid Gap Search tool
- ◯ Nucleic Acid Global Positioning Software

No, the answer is incorrect.
Score: 0

Accepted Answers:
Next Generation Sequencing

5) An ideal biomarker   *1 point*

- ◯ is a biomolecules which is capable of distinguishing between patients and healthy subjects
- ◯ correlates with the diseased condition
- ◯ may provide cheap and stable test
- ◯ All of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
All of the above

6) What according to you plays a major role in a protein-protein interaction?   *1 point*

- ◯ Primary Structure
- ◯ Secondary structure
- ◯ Tertiary Structure
- ◯ Native State

No, the answer is incorrect.
Score: 0

Accepted Answers:
Native State

7) Select one of the most challenging aspects of protein microarrays?   *1 point*

- ◯ Multifunctional assays
- ◯ Small volumes
- ◯ Protein functionality
- ◯ High density

No, the answer is incorrect.
Score: 0

Accepted Answers:
Protein functionality

8) Which of the following defines reverse phase protein microarray?   *1 point*

- ◯ When purified proteins are printed on glass slides
- ◯ ORFs are imprinted on the glass surface using BS3 linker
- ◯ Either cell or tissue lysates are immobilized on the microarray chip
- ◯ Specific antibodies are printed on the chip surface

No, the answer is incorrect.
Score: 0

Accepted Answers:
Either cell or tissue lysates are immobilized on the microarray chip

9) Which of these is NOT a label-free detection platform?   *1 point*

- ◯ Surface Plasmon Resonance
- ◯ ELISA
- ◯ Bio-layer interferometry
- ◯ All are label-based platforms

No, the answer is incorrect.
Score: 0

Accepted Answers:
ELISA

10) Which of these are the potential applications of Surface Plasmon Resonance?   *1 point*

i) Analysis of binding kinetics
ii) Provides affinity of molecular interactions
iii) Allows quantitative analysis of proteome in different samples
iv) Calibration free concentration analysis of analytes

- ◯ i, ii and iv
- ◯ ii, iii and iv
- ◯ i, ii and iii
- ◯ i and ii

No, the answer is incorrect.
Score: 0

Accepted Answers:
i, ii and iv

You were allowed to submit this assignment only once.

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