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Courses » Applications of interactomics using Genomics and proteomics technologies

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Unit 7 - Week 6

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Course outline

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- [Lecture 26 : Biomolecular interactions using Bio-Layer Interferometry \(BLI\)-I](#)
- [Lecture 27 : Biomolecular interactions using Bio-Layer Interferometry \(BLI\)-II](#)
- [Lecture 28 : Biomolecular interaction analytics using MicroScale Thermophoresis](#)
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Assignment 6

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment. **Due on 2019-04-10, 23:59 IST.**

1) Which of the following is correct for Bulk effect?

1 point

- Bulk effect – when analyte binds and increases the RU
- Bulk effect – when buffer binds and increases the RU
- Bulk effect – when analyte and buffer binds to increase the RU
- Bulk effect – when no binding takes place

No, the answer is incorrect.

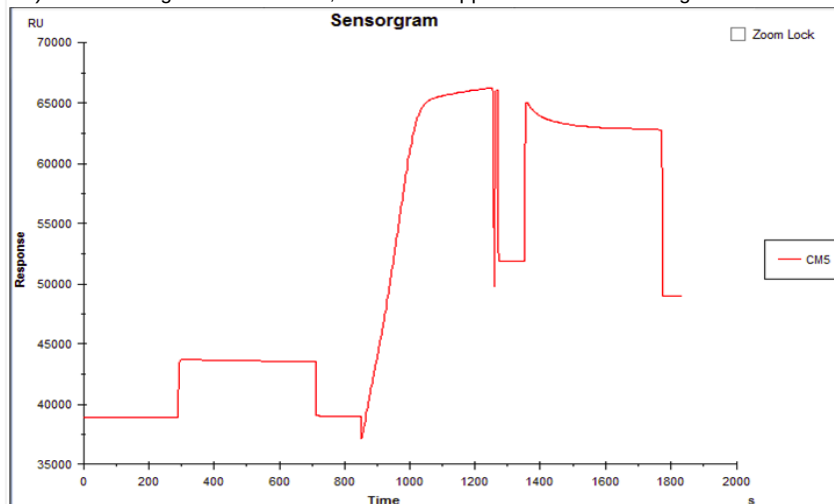
Score: 0

Accepted Answers:

Bulk effect – when buffer binds and increases the RU

2) Based on Figure shown below, what is the approximate amount of ligand immobilized?

1 point



8000 RU

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Accepted Answers:

10000 RU

3) Which of the following bonds is used for immobilization of capturing molecule? **1 point**

- Ionic bond
- Covalent bond
- Van der Waal
- H-bond

No, the answer is incorrect.

Score: 0

Accepted Answers:

Covalent bond

4) Ligands for immobilization require to have which of the following characteristics? **1 point**

- Molecular weight and valency should be more
- Molecular weight and valency should be less
- Molecular weight should be more but valency should be less
- Molecular weight should be less but valency should be more

No, the answer is incorrect.

Score: 0

Accepted Answers:

Molecular weight and valency should be more

5) Rahul sets a reactions of an enzyme and analyte having slow dissociation kinetics, which of the cases explains the best choices of experiment? **1 point**

- Multi cycle kinetics
- Single cycle titration kinetics
- Short and long kinetics
- Steady state kinetics

No, the answer is incorrect.

Score: 0

Accepted Answers:

Short and long kinetics

6) Ramesh has used capture immobilization for his target ligand. What does this suggests about the ligand he is working on? **1 point**

- Ligand was not pure
- Ligand was unstable
- Regeneration conditions were known
- All of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

All of the above

7) Which of the following high throughput panels can be used to locate the gene mutations? **1 point**

- Gene panel
- Exome panel

- Intron panel
- Chromosome panel

No, the answer is incorrect.

Score: 0

Accepted Answers:

Exome panel

8) What is the importance of pH scouting?

1 point

- Predicts buffer compatibility at a particular viscosity
- Predicts buffer compatibility at a particular temperature
- Predicts buffer compatibility at a particular pH
- All of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Predicts buffer compatibility at a particular pH

9) Ram is working on immobilization of protein ligand. He checked for EDC and chip quality but fails to attain the RU upto expected range. What else should he check during such SPR experiments?

1 point

- pH of the solvent
- pI of the Ligand
- Pre concentration
- Concentration of C1 on the chip

No, the answer is incorrect.

Score: 0

Accepted Answers:

pH of the solvent

pI of the Ligand

Pre concentration

10) The biomarkers can be used for which of the following?

1 point

- Screening of Diseases
- Screening of host genders
- Screening of Healthy individuals only
- Screening cannot be done using Biomarkers

No, the answer is incorrect.

Score: 0

Accepted Answers:

Screening of Diseases

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