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NPTEL

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Unit 3 - Week 2

Week 2 Assignment 2

The due date for submitting this assignment has passed. **Due on 2018-09-12, 23:59 IST.**
As per our records you have not submitted this assignment.

1) Is it essential to use multiple concentrations of the analyte for a kinetic analysis? ***1 point***

- True
- False

No, the answer is incorrect.
Score: 0

Accepted Answers:
True

2) Is it possible for two different molecules to have similar affinities but different kinetics? ***1 point***

- True
- False

No, the answer is incorrect.
Score: 0

Accepted Answers:
True

3) The purity of the ligand has no effect on immobilization. Is it true or false? ***1 point***

- True
- False

No, the answer is incorrect.
Score: 0

Accepted Answers:
False

4) During optimisation the best analyte concentration range, which is recommended for injection? ***1 point***

- 10-20 µM
- 5 - 100% of Rmax
- 0.1 – 10 times of expected KD
- None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
0.1 – 10 times of expected KD

- short & long kinetics
- steady state kinetics

No, the answer is incorrect.
Score: 0

Accepted Answers:
short & long kinetics

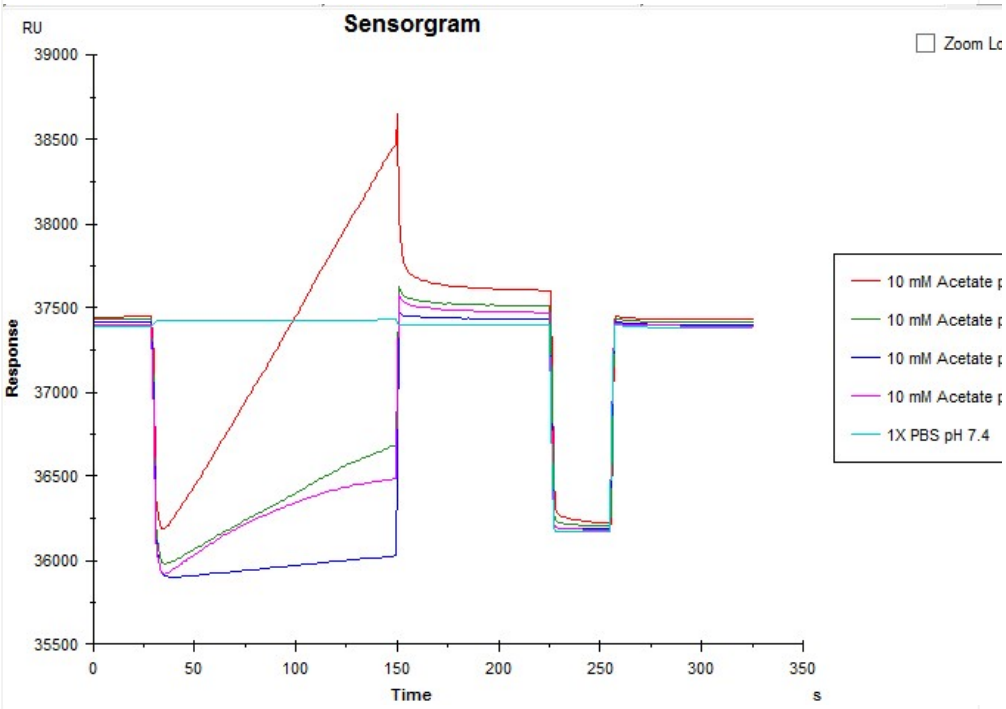
6) To calculate meaningful results in an SPR experiment it is essential to have which type of curves? ***1 point***

- That go to Rmax
- That have sharp association and dissociation
- That have curvature
- With a low response

No, the answer is incorrect.
Score: 0

Accepted Answers:
That have curvature

7) Based on Figure 1 shown below, which of the buffers tested for an SPR experiment would be a good choice for performing immobilization of the ligand? ***1 point***

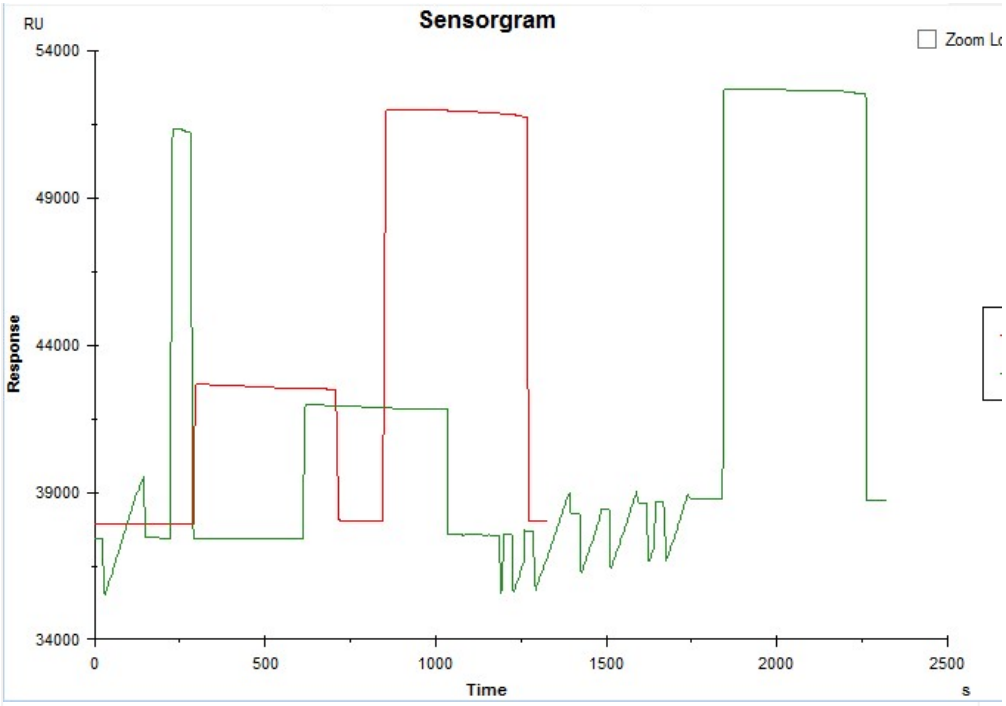


- 10mM Acetate pH 4.0
- 10mM Acetate pH 4.5
- 10mM Acetate pH 5.0
- 10mM Acetate pH 5

No, the answer is incorrect.
Score: 0

Accepted Answers:
10mM Acetate pH 4.0

8) Based on Figure 2 shown below, which of the following curves depicts blank immobilization? ***1 point***



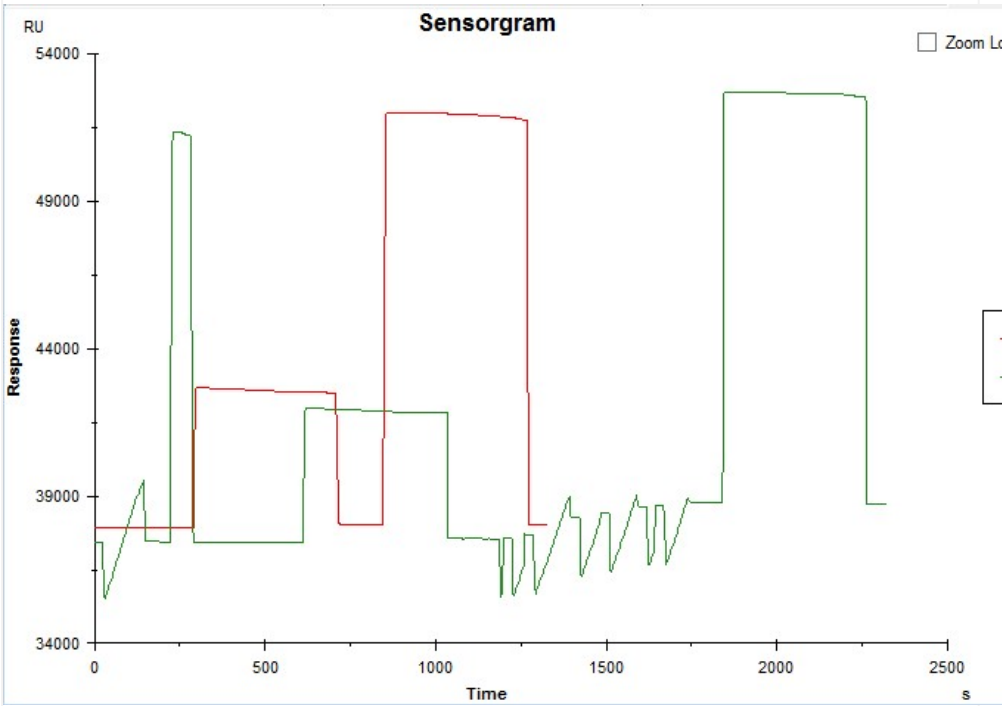
1

2

No, the answer is incorrect.
Score: 0

Accepted Answers:
1

9) Based on Figure 2 shown below, which of the following curves depicts immobilization of the ligand? ***1 point***



1

2

No, the answer is incorrect.

Score: 0

Accepted Answers:
2

10) In the formulation of an SPR experiment, one tries to minimize non-specific binding. Which of the following will be the best choice? ***1 point***

- Using a low pH running buffer
- By adding salt and/or detergent to the running buffer
- by varying the analyte injection time
- None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
By adding salt and/or detergent to the running buffer

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