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Courses » Interactomics

Announcements

Course

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Unit 2 - Week 1

	The due date for submitting this assignment has no	has	
How to access the portal ?	The due date for submitting this assignment has passed. As per our records you have not submitted this assignment. Due on 2018-09-12, 23:59 IST assignment.		9 IST.
Week 1	1) The pH of the immobilization buffer is dependent on which of the following?		1 point
Lecture 1 - Introduction to Interactomics	pl of the ligand Molecular weight of the ligand		
Lecture 2 - An overview of label-free technologies	pl of the analyte Molecular weight of the analyte No, the answer is incorrect.		
Lecture 3 - An overview of surface plasmon resonance (SPR)	Score: 0 Accepted Answers: pl of the ligand 2) Which of the following statement is true?		1 point
Lecture 4 - An overview of surface plasmon resonance imaging (SPRi)	Ligand is used as the immobilization buffer and a Ligand is used as the running buffer and analyte Ligand is immobilized on the surface and analyte Ligand is used as the capture molecule and analyte	is used as the immobilization buffer a is flown over it	
Lecture 5 - Basics of SPR: Surface chemistry	No, the answer is incorrect. Score: 0 Accepted Answers:		
Download Videos	Ligand is immobilized on the surface and analyte is flow	n over it	
Weekly Feedback	3) What are the different applications of an SPR system? Kinetics		1 point
Quiz : Week 1 Assingment 1	Binding		
Week 1	Concentration analysis		

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Week 5	experiment
Week 6	All bound analyte is removed
	Minimum effect on ligand activity
Week 7	Both of the above
Week 8	None of the above
	No, the answer is incorrect. Score: 0
	Accepted Answers: Both of the above
	5) Using the information provided below, calculate the immobilization level needed for an 1 point Rmax of 200 RU. If the molecular weight of a ligand is 150kDa, molecular weight of the analyte is 30kDa and the stoichiometric ratio of interaction is 1:1.
	● 40 RU
	600 RU
	0 1000 RU
	45000 RU
	No, the answer is incorrect. Score: 0
	Accepted Answers: 1000 RU
	6) Which of the following can be treated as a reference surface for an SPR assay? 1 point
	Unmodified surface
	Activated-deactivated surface
	Surface immobilized with dummy ligand
	All of the above
	No, the answer is incorrect. Score: 0
	Accepted Answers:
	All of the above 7) A sensorgram is a plot of? 1 point
	Response against concentration Response against time
	KD against concentration
	KD against time
	No, the answer is incorrect.
	Score: 0
	Accepted Answers: Response against time
	8) Which of the following buffer is used for dissolving the analyte? 1 point
	Regeneration buffer
	Running buffer
	Immobilization buffer

Any of the above	
No, the answer is incorrect. Score: 0	
Accepted Answers: Running buffer	
9) What is the unit of association rate constant?	1 point
Molar (M) Per second (s-1) Per molar per second (M-1s-1) None of the above	
No, the answer is incorrect. Score: 0	
Accepted Answers: Per molar per second (M-1s-1)	
10)What is the unit of dissociation rate constant?	1 point
Molar (M) Per second (s-1) Per molar per second (M-1s-1) None of the above	
No, the answer is incorrect. Score: 0	
Accepted Answers: Per second (s-1)	
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