Feedback — Quiz 2: Measurement Technology

Help Center

Authentication is not required for this quiz.

You submitted this quiz on **Mon 3 Aug 2015 10:28 PM PDT**. You got a score of **10.00** out of **10.00**.

Question 1		
Genome assembly refers to		
Your Answer	Score	Explanation
A computational process to translate highlevel code into machinelevel instructions		
A computational method to identify the genes being expressed in a cell or tissue		
A computational method for reconstructing chromosomes from short reads	✓ 1.00	
A method for capturing gene sequences		
Total	1.00 / 1.00	

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Which of the following is not true about DNA?

Your Answer Score Explanation

- Each strand has a direction
- ONA molecules can be millions of bases in length

It doesn't matter which direction you write the sequence in	✓ 1.00
One strand is complementary to the other	
Total	1.00 / 1.00

uestion 3			
NA molecules are translate	d into		
our Answer		Score	Explanation
Proteins	✓	1.00	
Exons			
DNA molecules			
Introns			
- otal		1.00 / 1.00	
ıl		1.00 / 1.00	

Question 4		
Messenger RNA is		
Your Answer	Score	Explanation
A shortened version of DNA		
A reverse copy of DNA		
A special signal that helps a cell communicate with other cells		
A template from which proteins are constructed by ribosomes	✓ 1.00	
Total	1.00 /	

1.00

Question 5

DNA is copied into DNA in order to

Your Answer		Score	Explanation
Replicate a cell	~	1.00	
Respond to an infection			
Create species diversity			
Encourage evolutionary changes			
Total		1.00 / 1.00	

Question 6

Evolutionary biology involves the study of

Your Answer		Score	Explanation
O How the cell membrane is formed			
The process of natural selection that allows some DNA mutations to survive and cause others to die out	~	1.00	
The origin of the very first living organisms			
The purpose of life on earth			
Total		1.00 /	
		1.00	

Question 7

Which of the following can we measure with next generation sequencing?

Your Answer		Score	Explanation
O Protein levels			
DNA variants	~	1.00	
RNA secondary structure			
Protein transport rates			
Total		1.00 / 1.00	

Question 8

What is the first step in ChIP-sequencing to measure protein-DNA binding?

Your Answer		Score	Explanation
Antibody pulldown of the linked proteinDNA fragments			
Sequencing the bound DNA fragments			
Fragmenting the DNA			
Cross-linking proteins to the DNA	~	1.00	
Total		1.00 / 1.00	

Question 9

Which of the following can be measured using bisulfite conversion and then sequencing?

Your Answer Score Explanation

ODNA-protein binding		
DNA methylation	✓ 1.00	
 Transcription-factor binding 		
DNA secondary structure		
Total	1.00 / 1.00	

What is the primary measurement technology used in most modern genomics experiments?

Your Answer		Score	Explanation
O Polymerase chain reaction			
Western blotting			
Nanopore sequencing			
Oligonucleotide arrays			
Sanger sequencing			
Next generation sequencing	✓	1.00	
Total		1.00 / 1.00	