



## Week 13: Post Lesson Quiz (2022)

✓ 10/10 points

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## Question 1

✓ 1/1 point



Which statement is **false** about Canola

A

Most canola grown in Canada is transgenic.

B

Canola gets part of its name because it was developed in Canada.

Transgenic Canola grown in Canada is Bt.

Your answer

D

One of the main products of canola is vegetable oil.



## Question 2

✓ 1/1 point



Which statement is **false** about tissue culture.

A

The part of a plant used in tissue culture is called the explant.

B

Agar makes a substrate for the cultured tissue to grow.

C

Types and concentration of growth regulators will determine what type of culture will develop.

Tissue culture is only used for plant propagation

Your answer

E

Embryogenesis is where you have cells develop into complete embryos.



## Question 3

✓ 1/1 point



The study of the products of the first step of gene expression of all the genes in a cell,

tissue, or organism is called \_\_\_\_\_.

	transcriptomics	Your answer
B	proteomics	
C	genomics	
D	metabolomics	



#### Question 4

✓ 1/1 point



Stacked traits:

	refer to when a GMO is transformed with genes for more than one trait.	Your answer
B	refer to having a number of different oligonucleotides.	
C	refer to being able to manipulate plants in a number of ways in tissue culture.	
D	are present in almost all transgenic plants in Canada.	
E	refer to being tolerant of a number of insects.	



#### Question 5

✓ 1/1 point



Which of the following terms is NOT used to describe a corn plant that expresses a bacterial gene that protects it from being eaten by an insect?

A	genetically modified organism	
B	transgenic organism	
	mutant organism	Your answer
D	recombinant DNA organism	

E genetically engineered organism



### Question 6

✓ 1/1 point



What are you **NOT** able to do with PCR?

sequence a genome

Your answer

B amplify a DNA sequence

C clone a gene

D detect virus from a nasopharyngeal swab



### Question 7

✓ 1/1 point



Which PCR terms are **mismatched**?

A Primer - Oligonucleotide

Template – Double stranded DNA

Your answer

C Synthesis – 5' to 3' direction

D PCR Machine - Thermocycler



### Question 8

✓ 1/1 point



Question - Agrobacterium

A Agrobacterium is mobile and can move toward a wounded cell.

The Ti-plasmid of Agrobacterium is incorporated into the plant nuclear genome.

Your answer

C Agrobacterium is a common soil bacterium.

D	Agrobacterium caused tumours on plants.
E	Agrobacterium generally impairs plants, but does not kill them.



### Question 9

✓ 1/1 point



You compare a gene DNA sequence between several individuals. You find it is different by one nucleotide in the same regions. What is it called?

	a single nucleotide polymorphism (SNP) <span>Your answer</span>
B	a mutation
C	a genomic instability
D	a transcriptomic difference



### Question 10

✓ 1/1 point



When an organism's genome is sequenced, the DNA data goes into which of the following databases?

A	Seed Bank
B	WHO
C	Thermocycler
	GenBank <span>Your answer</span>

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