Module 4: Quiz

(1) This is a preview of the published version of the quiz

Started: Mar 3 at 2:25pm

Quiz Instructions

Overview

This quiz will help you reflect on the important takeaways of this module's content. You have multiple attempts on this quiz prior to the deadline. This quiz is open book and intended to ensure that you are understanding the content of this module.

Instructions

Click the "Take the Quiz" button to begin. After answering all of the questions, please click Submit at the bottom of the page to submit your answers.

How you'll be graded

Each question is worth a certain amount of points, and you'll earn points for each correct response. To review or discuss any questions or answers in this quiz, please connect with your instructor.

Question 1 1 pts

The pseudoautosomal regions of chromosomes X and Y are 100 percent identical in sequence.

○ True
○ False
Question 2 1 pts
Many genes on the human Y chromosome are palindromic.
○ True
○ False
iii Question 3 1 pts
Genes on the Y chromosome are only expressed in the testis.
○ True
○ False
iii Question 4 1 pts
The highly repetitive nature of the Y chromosome makes it easier to assemble the chromosome reference sequence.
○ True
○ False
Question 5 1 pts

Chromosome Y genes are involved in many cellular processes.
○ True
○ False
iii Question 6 1 pts
Most cancers with a clear sex difference affects males more than females.
O True
○ False
iii Question 7 1 pts
DNA hypermethylation is associated with more severe cancer phenotypes.
O True
○ False
iii Question 8 1 pts
Several important epigenetic modifier genes are located on the X chromosome.
O True
○ False

Question 9 1 pts
Females exhibit higher rates of lipid metabolism than males.
○ True
○ False
iii Question 10 1 pts
Tumor suppressor p53 does not affect X chromosome inactivation.
○ True
O False
iii Question 11 1 pts
Cells from males resist activators of cellular senescence in response to cellular damage and stress which could contribute to faster accumulation of cancer-causing mutations.
○ True
○ False
iii Question 12 1 pts
Antigen presenting cells in males and females present antigens at the same rate.

O True
○ False
iii Question 13 1 pts
Sex hormones can mediate different capacities for angiogenesis in males versus females thus affecting tumors' ability to recruit blood vessels.
O True
○ False
iii Question 14 1 pts
When printing reports from R Markdown files, you can specify whether you want a report printed as a Word document, PDF, or HTML.
○ True
True
True Crue False
True Crue False Question 15 1 pts
True False Cuestion 15 1 pts Using hard-coded values instead variables makes your code easier to reuse. Cuestion 15 1 pts

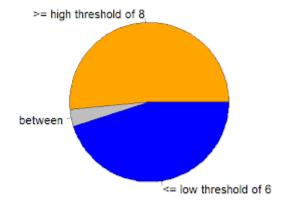
It is easy to remember what you were thinking when looking at code again after some time has passed.
O True
○ False
iii Question 17 1 pts
XY males are expected to have higher expression of chromosome Y genes than XX females.
O True
○ False
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Question 16 1 pts

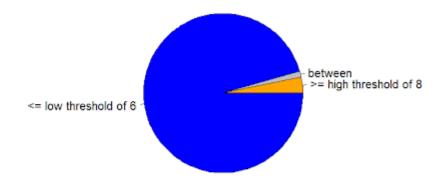
Question 18 1 pts

Using log transformed counts to quantify XIST expression, a threshold of below 6 was chosen to represent low expression and above 8 for high expression. Given the proportion of samples above and below these thresholds, the chosen thresholds are better predictors of cell lines coming from male patients than from female patients.

Thresholds for cell lines reported female [n =379]



Thresholds for cell lines reported male [n =471]



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True

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False

Question 19 1 pts	
To make a new subdirectory called new gene in a directory called prediction, you can use this shell command:	
mkdir new_gene/prediction.	
True	
○ False	
Question 20 1 pts	
To rename a file from	
XIST_prediction.txt	
to	
DDX3Y_prediction.txt,	
you can use this shell command:	
rename XIST_prediction.txt DDX3Y_prediction.txt.	
True	
False	
Not saved	Submit Quiz

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