Module 1: Quiz

Started: Mar 3 at 2:21pm

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

Humans have two sex chromosomes, chromosome X and chromosome Y.

○ True

○ False

Question 2 1 pts

Individuals with XX genotype will develop female reproductive organs.

○ True

○ False

Question 3 1 pts

Individuals with XX genotype will develop male reproductive organs.

○ True

○ False

Question 4 1 pts

Tumors produce all the oxygen and nutrients they need to grow larger.

○ True

○ False

Question 5 1 pts

Tumors can produce growth signals and lose their sensitivity for growth signals from outside the tumor region.

○

True

○

False

Question 6 1 pts

Tumors can develop the ability to spread into other regions of the body.

○

True

○

False

Question 7 1 pts

Sex chromosomes do not have an effect on cancer susceptibility or progression.

○

True

○

False

Question 8 1 pts

The Cancer Cell Line Encyclopedia is a collection of cell lines derived from human tumors.

○

True

○

False

Question 9 1 pts

The Cancer Cell Line Encyclopedia contains many cell lines derived from the same cancer patient.

○ True

○ False

Question 10 1 pts

A cell line is used as a model system for laboratory research because they show genetic similarities to the tumor type they were derived from.

○ True

○ False

Question 11 1 pts

When naming variables in R code, it's better to use variable names that tell you what type of data is being stored

```
(example: matrix1)
```

rather than variable names that tell you want information you are keeping track of

```
(example: CCLE_annotations).
```

○ True

○ False

Question 12 1 pts

When writing code, it is helpful to add descriptive comments to help yourself and others understand what the code does

○
True

○
False

Question 13 1 pts

You are writing a function called

```
countFileDims
```

that takes the name of a file containing a gene expression count matrix (rows = genes, columns = samples). The function opens the file, stores the data in a data frame variable called

```
count_matrix,
```

and prints out the dimensions of the

```
count_matrix
```

data frame. Once you call

```
countFileDims
```

function, the variable

```
count_matrix
```

can and should be used throughout the rest of the R script.

○
True

○
False

Question 14 1 pts

Once a function is written, any variable that contains data in the expected format can be passed in as input.

○
True

○
False

Question 15 1 pts

A

```
for
```

loop is used to substitute one variable for another.

○
True

○
False

Question 16 1 pts

A

```
for
```

loop is used to iterate through a list of values performing some manipulation or function.

○

True

○

False

⋮⋮⋮

Question 17 1 pts

The

> ```
> if
> ```

statement can be used to make a choice based on the value of some variable.

○

True

○

False

⋮⋮⋮

Question 18 1 pts

Multiple

> ```
> if
> ```

statements can not be nested together; a separate

> ```
> if
> ```

statement has to be written for each variable.

○

True

○

False

Question 19 1 pts

If

A = TRUE

and

B = TRUE,

then

A && B = TRUE.

○ True

○ False

Question 20 1 pts

If

A = TRUE

and

B = FALSE,

then

A || B = FALSE.

○
True

○
False

Not saved   Submit Quiz