Module Quiz 4

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

Started: Feb 8 at 4:02pm

Quiz Instructions

Module 4 Genetics, Evolution, and Behavior



This quiz is open media. Use anything you like to help you, except for another person or their answers. Good luck!

Question 1 1 pts

Based on chapter 18 in your book: In what way has neuroscience contributed to the legal system or the legal decisions we make?

 By taking advantage of epigenetics, we can now "cure" someone of hostile behaviors, rather than putting them in jail for the rest of their lives

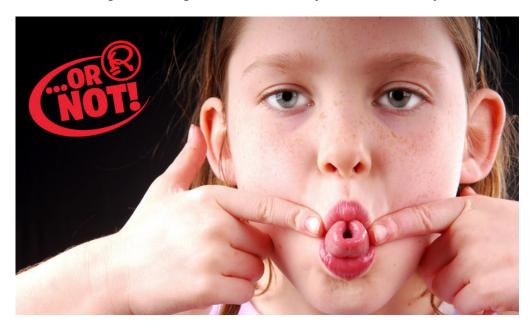
 We have made significant advances in EEG such that we can now tell with certa lying 	inty who is
 Understanding that addiction should be seen as a disease rather than a behavior someone's complete control may lead to therapeutic rehabilitation rather than put 	
○ All of the above	
Question 2	1 pts
Based on chapter 18 in your book: Research in the field of neuroeconomics has discovered	
○ Genetic markers that predict when someone will make a high-risk purchase	
A single structure in the brain that inhibits purchasing behavior	
A neurotransmitter that appears to mediate stock market performance	
O Hormones play a role in financial decision making	
Question 3	1 pts
A gene is best described as a	
○ 6ft length of DNA	
○ base pair, either AT or CG	
○ set of three base pairs	
○ specific segment of DNA	

https://suu.instructure.com/courses/744855/quizzes/2508041/take?preview=1

Question 4

1 pts

For the tongue rolling trait, how many alleles must you have?



- \bigcirc 0
- \bigcirc 1
- \bigcirc 2
- 3
- **4**

Question 5	1 pts
What is Crispr?	
A method for turning genes on and off	
A method for breaking apart a segment of DNA and repairing it with the code we want	t
A method for disabling ribosomes	
○ A drawer in your refrigerator	

Question 6	1 pts
Which of the following is TRUE about genetic tags?	
 Most of the genetic tags we accumulate on our genes are erased in the fetus to creablank slate 	ate a
○ Most of the genetic tags we accumulate on our genes are passed on to the fetus	
O None of the genetics tags we accumulate on our genes are passed on to the fetus	
○ Genetic tags are like a game of Russian roulette – most of them are blank and one i	s not
Question 7	1 pts
Which of the following supports the statement that a form of "euge	enics" is

Question /	1 pts
Which of the following supports the statement that a form of practiced today? Select all that apply.	"eugenics" is
☐ Banning immigrants from certain countries	
☐ Arranged marriages	
Couples with genetic disorders deciding not to reproduce and have children	
☐ The movie "Idiocracy"	

Question 8	1 pts
What does the nature vs nurture question refer to?	
○ whether we should spank/not spank children	
whether biology or the environment controls our behavior	
the relative contributions of neurotransmitters and hormones on behavior	

Question 9	1 pts
Other than sperm and egg, each cell in the human	body has pairs of
○ 23 : chromosomes	
○ 23 : genes	
○ 46 : chromosomes	
○ 2 : legs	
Genes ultimately direct which in turn affe	ct the development of
everything that makes us who we are.	
o peptides	
peptideshormones	

a person's phenotype remains stable throughout the lifespan	
genes can be active or inactivate	
gene activity can change over the lifespan	
gene function can be controlled by experience	
Question 12	1 pt
Characteristics that are determined by several genes rathe single pair of genes are referred to as	er than by a
○ multigenic	
o polygenic	
heterogenic	
heterogenicconfused	
○ confused	1 pt
o confused Question 13	1 pt
o confused Question 13	1 pt
Confused Question 13 To estimate heritability	1 pt
Confused Question 13 To estimate heritability We need only study one person	1 pt

https://suu.instructure.com/courses/744855/quizzes/2508041/take?preview=1

Question 14

1 pts

What is/are some of the challenge(s) faced by twin studies?

- O MZ twins typically share an environment, not just a genetic code
- MZ twins tend to be treated more similarly compared to regular siblings
- It is hard to find MZ twins reared apart from birth
- O All of the above are challenges faced by twin studies

My girlfriend told me she was leaving me because I keep pretending to be a Transformer. I said, "No, wait! I can change."



Question 15 1 pts

Two identical (MZ) twins have their epigenomes compared minutes after birth. Though very similar, there are some differences. What likely explains this?

- O The lab tech made a mistake
- The twins had different experiences in the womb
- There was a genetic mutation in one of the twins

○ The premise of the question is wrong. This could never happen.

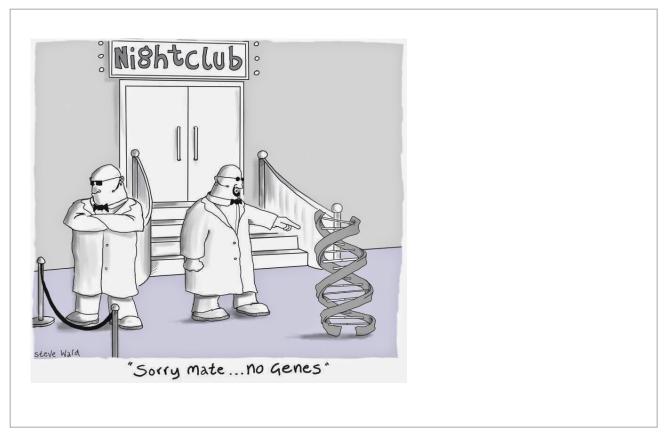
Question 16	1 pts
As MZ twins, which of the following would we expect to see?	
Their epigenomes become more dissimilar	
Their epigenomes become more similar	
○ The epigenomes of MZ twins remain identical and do not change with age	
○ MZ twins are a freak of nature	

Question 17	1 pts
Epigenetics is the study of how	
 the internal and external environment of an organism affects the arrangement of the that make up DNA 	e bases
the internal and external environment of an organism results in genetic mutations	
 the internal and external environment of an organism affects how the genetic code turning genes on and off 	is read by
○ the game called "tag" is played	

Question 18	1 pts
What important implication does the field of epigenetics have?	
○ Huh? Did we cover that?	

 $\ \bigcirc$ It suggests that nature is more important than nurture

It suggests that nurture is more important than nature	
It suggests that our well-being is a product of both natu	ire and nurture
Question 19	1 pt
As components of organic molecules,	groups attach to DNA
turning specific genes "off", whereas g specific genes "on".	roups attach to DNA and turi
○ Methyl : Acetyl	
○ Acetyl : Methyl	
o antagonist : agonist	
○ inhibitor : stimulator	
Question 20	44
Question 20	1 pt
If a given trait is "sex-linked", this means	
o you need to have sex to express it	
o males are more likely to have the trait	
○ females are more likely to have the trait	
it is a trait carried only by sperm	



Not saved

Submit Quiz