Assignment 6

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

1) The juvenile signaling pathway, functions in which of the following context(s)?
- Viral infection in C. elegans
- Loss of airway through injury
- Ventilator lung injury
- Non of the above

No, the answer is incorrect.
Score: 0

2) The anther callose primary file is F5P through (1) signaling and the F5P laterally induces secondary files in F5P and F7P through (2) signaling.

- (1) Lk 15 and Lk 12
- (1) Lk 13 and Lk 15
- (2) Lk 15 and Lk 12
- (2) Lk 13 and Lk 15

No, the answer is incorrect.
Score: 0

3) Identify the presumptive cells in which 7 cells maintain the same after differentiation?
- Normal somatic state so that genes are always accessible
- The gene product acts as an activator for its own expression
- Both A and B

No, the answer is incorrect.
Score: 0

4) Which of the following statements are TRUE with respect to the extracellular matrix (ECM)?
- ECM is important in autocrine signaling
- ECM is primarily composed of collagen, proteoglycans, and glycoproteins
- ECM is a network consisting of insoluble macromolecules secreted by the cell
- ECM is crucial for cell migration, attachment, and differentiation

No, the answer is incorrect.
Score: 0

5) Double negative logic, where activation is accomplished by inhibiting an inhibitor, can be found in which of the following pathways?
- -Stat pathway
- Notch pathway
- Wnt pathway
- TGFbeta pathway

No, the answer is incorrect.
Score: 0

6) A mutant allele of either cod 3 or cod 4 results in no offspring, while a mutation in cod 5 leads to excessive cell death and such mutants die as immature 1-point embryos. Cod 3 and cod 4 double mutants, as well as cod 3 and cod 4 double mutants, do not die. Which of the following statements are TRUE?
- cod 3 acts downstream of cod 4 and cod 5
- cod 4 acts downstream of cod 3 and cod 5
- cod 3 acts upstream of cod 4 and downstream of cod 5
- cod 3 acts upstream of cod 5 and downstream of cod 4

No, the answer is incorrect.
Score: 0

7) Effect of the following is VIAEC with respect to sexual development in C. elegans?
- The sexual precursor cells form an appropriate group
- Without the anchor cell only F5P, F3P and F7P disperse the lethal fate
- Lateral inhibition functions through the F9P pathway
- Lateral inhibition functions through the F10P pathway

No, the answer is incorrect.
Score: 0

8) Drosophila continue to live from isolated blastomeres. This result contradicts the concept of autonomous specification because -
- Autonomous specification implies stochastic development
- Autonomous specification implies stochastic development
- Autonomous specification implies that only cells have a limited developmental potential
- Developmental potential of a blastomere is greater than what it develops into as a part of a normal embryo. This conclusion is consistent with the concept of autonomous specification.

No, the answer is incorrect.
Score: 0

9) Developmental potential of a blastomere is greater than what it develops into as a part of a normal embryo. This conclusion is consistent with the concept of autonomous specification.
- Autonomous specification
- Genetic equivalence and differential gene expression
- Remorality of cell fate during the stage of specification
- Mosaic development

No, the answer is incorrect.
Score: 0

10) Match the pairs:

- (a) Autonomous specification
- (b) Conditional specification
- (c) Sympathetic specification

1. The developmental fate of a rudex depends on its somatic location
2. This developmental potential of a rudex depends on the cues provided by the neighboring wild
3. This developmental potential of a blastomere depends on its embryonic location
4. The developmental potential of a blastomere depends on its embryonic position
5. The isolated embryonic cells can eventually develop into their corresponding embryonic structures

No, the answer is incorrect.
Score: 0

Due on 2020-10-28, 22:59 IST.