Molecular biology concept assessment

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1/1 point (graded)

In a single cell, how many RNA copies of a given gene are there?

- 1 copy
- 2 copies
- 3 copies
- varies ✔

Submit You have used 2 of 2 attempts

✔ Correct (1/1 point)

DNA Copies

1/1 point (graded)

In a typical somatic human cell, before DNA replication, how many DNA copies are there for most genes (ignore X and Y chromosomes)?

- 1 copy
- 2 copies ✔
- 3 copies
- 4 copies

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✔ Correct (1/1 point)

Genetic Inheritence

0/1 point (graded)
Which of the following is most likely to be inherited in all the cells of all your body across a generation (e.g. from either of your parents to you)? That is, which is part of the major component of inheritance.

- (•) a SNP (single nucleotide polymorphism)
- ( ) an individual fragment of mRNA
- ( ) an individual transcription factor protein

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✖ Incorrect (0/1 point)

Comparing yeast colonies

1/1 point (graded)
As a yeast cell of species S. cerevisiae passes from cell-cycle phase G1 to phase S, a bud begins to form and enlarge. When we distinguish between yeast colonies in the pre-budding and budding conditions, we are comparing

- ( ) gene expression patterns

- (●) phenotypic states
- ( ) genetic profiles

✔

Explanation
The existence or nonexistence of the bud is a low-dimensional characteristic of the organism.

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ℹ Answers are displayed within the problem