

Genetics Job Interview Questions And Answers



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Genetics Interview Questions And Answers Guide.

Question - 1:

The three stop codons UAG, UAA, UGA do not code for any proteins. then why does the start codon AUG code for a protein, i.e, methionine?

Ans:

AUG codon codes for an amino acid ;Methionine, because a tRNA is available with the anti-codon complementary to the AUG codon. This tRNA brings in the Methionine molecule when charged to the site of protein synthesis ie Ribosomes in the cytosol.

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Question - 2:

Who was the father of genetic engineering?

Ans:

Paul Berg

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Question - 3:

Is male child having more genital sequence as of father or mother?

Ans:

Male child is having the genital sequence equally as the mother and father because in male child the x-chromosome comes from mother and the y-chromosome comes from father

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Question - 4:

What is the method used to identify your transformed cells from the plasmid vector?

Ans:

1) If transformant is thought to have antibiotic resistant gene (called as Marker Gene) along with ur desired gene, then culture those cells in a media containing that same antibiotic.

==>Case 1:- the cell is not transformed:-

the cell will not have the antibiotic resistant gene, hence it wont grow (or simply die) bcoz of antibiotic in the media.

==>Case 2:- the cell is successfully transformed:-

The cell will easily grow in media bcoz antibiotic wont affect it as cell will resist it. (bcoz of marker gene).

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Question - 5:

Explain steps involved in transcription?

Ans:

there are 3 basic steps initiation, elongation and termination

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Question - 6:

What is totipotency?

Ans:

The inherent capacity of a cell to divide as well as differentiate to form a whole organism is known as totipotency



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Question - 7:

Name three scientists involved in Human Genome Project?

Ans:

craig ventor
james watson
francis collins

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Question - 8:

If mutation occurs at the antron region of primary RNA, then what will be it causes?

Ans:

If mutation occurs at intron region of primary transcript then functional mRNA will not be generated. This is due to defect in mRNA splicing. May be this mutation occurs at one of the splice site which results in production of mRNA of different sizes.

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Question - 9:

Why dna has no uricel while rna had?

Ans:

because in DNA if uracil is present then it would be more prone to mutations as uracil has non specific binding also stability factor comes to play a role.

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Question - 10:

Is male child have more genetical sequence as of father or mother?

Ans:

mother

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Question - 11:

How is co-dominance different from incomplete dominance?

Ans:

When both alleles are completely expressed in heterozygote called co dominance.
in incomplete dominance in heterozygotes condition intermediate between dominant and recessive alleles occur

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Question - 12:

Is codominance inheritance same with incomplete dominance inheritance?

Ans:

no in former all alleles are expressed with discrete phenotype effect..exam of AB blood group.. 1A:2AB:1B.
later one gives mixed effect of all alleles.
exam of flower 1red:2pink:1white.

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Question - 13:

Gene = cistron = intron + exon?

Ans:

It is in the case of eukaryotic gene

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