

Lecture 2 Section Questions

25. What is always true concerning the base composition of DNA? In a molecule of double stranded DNA, the ratio of adenine residues to thymine residues equals the ratio of cytosine residues to guanine residues. For every adenine molecule there must be a thymine molecule to pair with in a molecule of double stranded DNA. So the A-T ratio is 1. The same goes for cytosine and guanine, their ratio is a molecule of double stranded DNA must equal 1.
26. An mRNA molecule that is translated at the rough ER is shorter than the gene from which it was transcribed from because in Eukaryotic organisms, introns are removed. Answer: introns in the primary transcript are excised.
27. When a DNA transcript is arranged in the 5' to 3' direction, what is the end of the molecule? The 3' end of course is the end of the molecule. We always read DNA from the 5' to 3' direction. In both DNA replication and transcription, the DNA strand used is read in the 3' to 5' direction and the new DNA or RNA is always synthesized in the 5' to 3' direction.
28. What do we know about DNA replication? Takes in place in the nucleus. We have leading strand and lagging synthesis. It involves Helicase which unwinds the DNA double helix, Primase which lays down RNA primers for the DNA polymerases, and ligase which links the okazaki fragments. Both strands are replicated!
29. The key point here is that a processed, mature mRNA will always be longer than the primary transcript in Eukaryotic cells because introns have to be removed.
30. Complementary strands of DNA are held together by hydrogen bonds. After H-bonds form, then the phosphodiester bonds are formed.
31. Eukaryotic mRNA production occurs in the following sequence: D. Translation from DNA in the nucleus followed by post-transcriptional processing in the nucleus.
32. As we discussed before in the Lecture 1 In class Exam. Gel electrophoresis uses an electrolytic cell where the anode is actually the positive terminal. So the negatively charged DNA molecules run towards the anode.
33. The main point of this question is what is the start codon? The start codon is AUG or ATG!
34. Translation in a eukaryotic cell is associated with each of the following organelles or locations except...? We have to be careful in answering this type of question. The specific process of translations which involves ribosomes reading an mRNA transcript and synthesizing a polypeptide sequence occurs where and is associated with which organelles? It occurs in the cytoplasm of course and involves ribosome. Let's look at our answer choices. A- Mitochondrial matrix—this in a sense is the cytosol, the cytosol of the mitochondria which contains ribosomes. B. the cytosol—bingo we know it takes place here. C. Nucleus—no!!!! We know that translation does not take place in the nucleus. This is the hallmark of eukaryotic organisms. Transcription takes place in the nucleus and translation takes place outside of the nucleus in the cell cytoplasm and mitochondrial matrix. D- The rough endoplasmic reticulum-we know it is called the rough ER because it is studded with ribosomes so translation is associated with this organelle.
35. They key point is maintaining what we know about the genetic code. So what do we know about the genetic code? 1). We know that it is degenerate meaning we have 64 codons that code for 20 amino acids. This means that more than one codon can code for an amino acid. 2). It is unambiguous because a single codon can code for one and only one amino acid. Answer choice A is incorrect because we know there are more codons than amino acids. B is also wrong because any change in the nucleotide sequence of a codon does not have to result in a new amino acid because we know the genetic code is degenerative. C. is incorrect because the genetic code is almost universal meaning that although some organisms may use it differently, they still all use the same code.

Exam Kracker Biology

Sabine Zange



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