

22. What is the difference between the translation of cytosolic and secreted proteins? How are the latter inserted into the endoplasmic reticulum? What is the role of SRP? What are the constituents of SRP?

23. What is the difference between a silent and a missense mutation? What is the causative mutation in sickle cell anemia? Why does this mutation cause this disease?

24. What is the difference between a missense, nonsense, and frameshift mutation? Why do some frameshift mutations result in nonsense codons? Why don't all insertions or deletions cause frameshift?

25. What is a mutation? What agents can cause them? What is the Ames test and how does it work? What is the relationship between mutagens and carcinogens? Are all carcinogens mutagenic?

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