

Biochemistry Interview Questions

1. How do amino acids behave in acidic conditions? What about basic conditions?
2. The selectivity filter is lined with carbonyl oxygens. Knowing this, why might the channel allow potassium ions through, but not sodium ions?
3. How does a perm work?
4. What is the significance of the human genome project?
5. Why is there salt in the sea?
6. How does DNA fingerprinting work? What is its use?
7. Why are there so many steps in the cascade of reactions?
8. Why does food taste better when it is hot?
9. What is an amino acid and why are there only twenty?
10. Why do we need ATP, why not just release energy from glucose directly?
11. How many moles of H₂O are in a single cup of water?
12. What volume of wine can be drunk to reach the legal concentration of alcohol in the blood for driving?
13. How would you differentiate between salt and sugar without tasting them?
14. How does blood maintain its pH?
15. What is the concentration of water?
16. Why are explosions a risk in flour mills? What stops bags of flour exploding in the kitchen?