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CHEMICAL FOUNDATIONS

REVIEW THE CONCEPTS

1. Less energy is required to form noncovalent bonds than covalent bonds, and the bonds that stick the gecko's feet to the smooth surface need to be formed and broken many times as the animal moves. Since van der Waals interactions are so weak, there must be many points of contact (a large surface area) yielding multiple van der Waals interactions between the septae and the smooth surface.
2.
 - a. These are likely to be hydrophilic amino acids, and in particular, negatively charged amino acids (aspartate and glutamate), which would have an affinity for K^+ via ionic bonds.
 - b. Like the phospholipid bilayer itself, this portion of the protein is likely to be amphipathic, with hydrophobic amino acids in contact with the fatty acyl chains and hydrophilic amino acids in contact with the hydrophilic heads.
 - c, d. Since both the cytosol and extracellular space are aqueous environments, hydrophilic amino acids would contact these fluids.
3. At $pH = 7.0$, the net charge is -1 because of the negative charge on the carboxyl residue of glutamate (E). After phosphorylation by a tyrosine kinase, two additional negative charges (because of attachment of phosphate residues to tyrosines (Y)) would be added. Thus, the net charge would be -3 . The most likely source of phosphate is ATP since the attachment of inorganic phosphate (P_i) to tyrosine is energetically highly unfavorable, but when coupled to the hydrolysis of the high-energy phosphoanhydride bond of ATP, the overall reaction is energetically favorable.

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Molecular Cell Biology Harvey F. Lodish,Arnold Berk,Chris A. Kaiser,Monty Krieger,Matthew P. Scott,2007-06-15

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