

# 2

## 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.

# Lodish Solutions Manual

**Nivaldo J. Tro**



## **Lodish Solutions Manual:**

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

*Instructor's Manual and Study Guide Answers for the Human Body in Health and Disease* Barbara Janson

Cohen,Memmler,1996 *Molecular Cell Biology; Student Companion/solutions Manual & Personal Response System* Harvey

Lodish,Educue,Arnold Berk,Paul Matsudaira,2006-04-26

**Loose-leaf Version for Molecular Cell Biology** Harvey

Lodish,Arnold Berk,Chris A. Kaiser,Monty Krieger,Matthew P. Scott,Anthony Bretscher,Hidde Ploegh,Paul

Matsudaira,2012-09-01 Molecular Cell Biology presents the key concepts in cell biology and their experimental

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appropriate to help illustrate the connections between cell biology and health and human disease As always a hallmark of

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with the concept of START a cell s commitment to entering the cell cycle starting with DNA synthesis and then progresses

through the cycle stages The chapter focuses on yeast and mammals and uses general names for cell cycle components as much as possible New Discoveries Methodologies and Medical Examples New discoveries new methodologies and new medical examples are included throughout *Instructor's Manual to Accompany Biology Laboratory* Carolyn Eberhard,1987

**Selected Solutions Manual for Chemistry** Nivaldo J. Tro,2016-01-20 The selected solution manual for students contains complete step by step solutions to selected odd numbered end of chapter problems [Solutions Manual](#) Nivaldo J.. Tro,Mary Beth Kramer,Kathy Thrush Shaginaw,2009-05-01 **Instructor's Manual to Accompany Biology the Science of Life, Third Edition** Jay Marvin Templin,1991 **Selected Solutions Manual for Principles of Chemistry** Nivaldo J. Tro,2015-02-11 The selected solution manual for students contains complete step by step solutions to selected odd numbered end of chapter problems **Selected Solutions Manual for Chemistry** John E. McMurry,Robert C. Fay,Joseph Topich,Jill K. Robinson,2015-06-12 The selected solution manual for students contains complete step by step solutions to selected odd numbered end of chapter problems *Solutions Manual* Merhyle F. Spotts,T. E. Shoup,L.E. Hornberger,2003-08-31

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