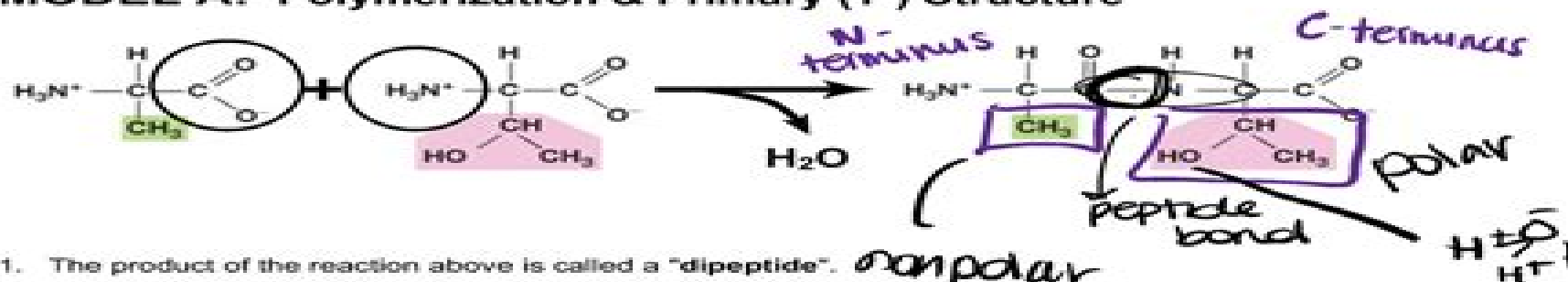
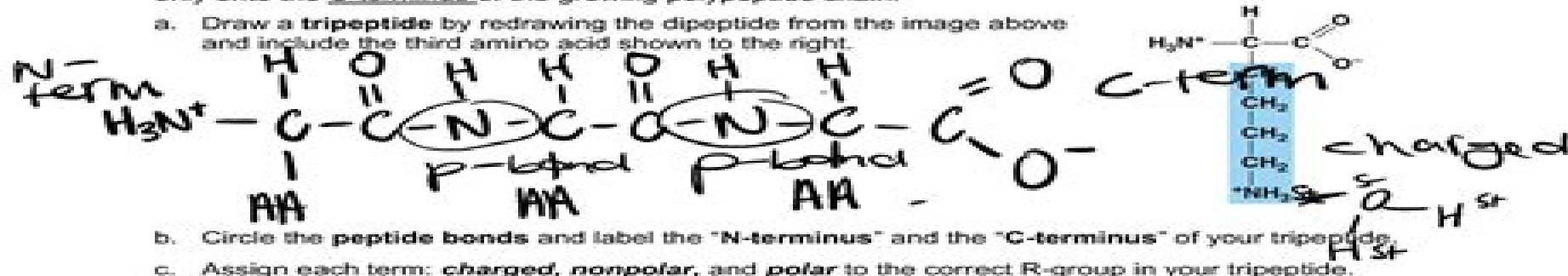


# **MODEL A: Polymerization & Primary (1°) Structure**



1. The product of the reaction above is called a "dipeptide".
  - a. Which two functional groups are involved in this reaction? Circle and label these two groups on the reactants. **Carboxyl and amino group**
  - b. Circle and label the new **peptide bond** formed between the two amino acids.
  - c. Does a peptide bond involve the amino acid "**backbone**" or **R-groups**? (Circle one.)
  - d. Draw a square around each **amino acid** in the dipeptide. An amino acid that is part of a polypeptide chain is referred to as a "**residue**."
  - e. Label the "**N-terminus**" and the "**C-terminus**" (also known as the amino- and carboxy-termini) of the dipeptide molecule. ("terminus"="end")
2. The addition (**polymerization**) of amino acid **monomers** is directional, with new amino acids added only onto the C-terminus of the growing polypeptide chain.



- a. Draw a **tripeptide** by redrawing the dipeptide from the image above and include the third amino acid shown to the right.
- b. Circle the **peptide bonds** and label the "**N-terminus**" and the "**C-terminus**" of your tripeptide.
- c. Assign each term: **charged**, **nonpolar**, and **polar** to the correct R-group in your tripeptide.
- d. Two of your R-groups are **hydrophilic** and can form **hydrogen bonds** with water. Draw two H<sub>2</sub>O molecules interacting with your tripeptide, using dotted lines to represent the hydrogen bonds. Label the partial charges of the atoms involved in each hydrogen bond you draw.

# Pogil Protein Structure Answer Page 4

**Thomas E. Creighton**



## **Pogil Protein Structure Answer Page 4:**

Protein Structure Harold A. Scheraga, 2014-07-01 Protein Structure deals with the chemistry and physics of biologically important molecules the proteins particularly the determination of the structure of various proteins their thermodynamics their kinetics and the mechanisms of different reactions of individual proteins The book approaches the study of protein structure in two ways firstly by determining the general features of protein structure the overall size and shape of the molecule and secondly by investigating the molecule internally along with the various aspects of the internal configuration of protein molecules It describes in detail experimental methods for determining protein structure in solution such as the hydrodynamic method the thermodynamic optical method and the electrochemical method The book then explains the results of experiments carried out on insulin lysozyme and ribonuclease The text notes that the experiments carried out on native and denatured proteins as well as on derivatives prepared by chemical modification e g by methylation iodination acetylation etc can lead to greater understanding of secondary and tertiary structures of proteins of known sequence The book is suitable for biochemists micro biologists cellular researchers or investigators involved in protein structure and other biological sciences related to muscle physiologists geneticists enzymologists or immunologists **Introduction to Proteins**

Amit Kessel, Nir Ben-Tal, 2018-03-22 Introduction to Proteins provides a comprehensive and state of the art introduction to the structure function and motion of proteins for students faculty and researchers at all levels The book covers proteins and enzymes across a wide range of contexts and applications including medical disorders drugs toxins chemical warfare and animal behavior Each chapter includes a Summary Exercises and References New features in the thoroughly updated second edition include A brand new chapter on enzymatic catalysis describing enzyme biochemistry classification kinetics thermodynamics mechanisms and applications in medicine and other industries These are accompanied by multiple animations of biochemical reactions and mechanisms accessible via embedded QR codes which can be viewed by smartphones An in depth discussion of G protein coupled receptors GPCRs A wider scale description of biochemical and biophysical methods for studying proteins including fully accessible internet based resources such as databases and algorithms Animations of protein dynamics and conformational changes accessible via embedded QR codes Additional features Extensive discussion of the energetics of protein folding stability and interactions A comprehensive view of membrane proteins with emphasis on structure function relationship Coverage of intrinsically unstructured proteins providing a complete realistic view of the proteome and its underlying functions Exploration of industrial applications of protein engineering and rational drug design Each chapter includes a Summary Exercises and References Approximately 300 color images Downloadable solutions manual available at [www.crcpress.com](http://www.crcpress.com) For more information including all presentations tables animations and exercises as well as a complete teaching course on proteins structure and function please visit the author s website Praise for the first edition This book captures in a very accessible way a growing body of

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**Protein Structure-Function Relationships in Foods** Rickey Y. Yada, R.L. Jackman, 2012-12-06 Food proteins constitute a diverse and complex collection of biological macro molecules Although contributing to the nutritional quality of the foods we consume proteins also act as integral components by virtue of their diverse functional properties The expression of these functional properties during the preparation processing and storage of foods is largely dictated by changes to the structure or structure related properties of the proteins involved Therefore germane to the optimal use of existing and future food protein sources is a thorough understanding of the nature of the relationships between structure and function It is the goal of this book to aid in better defining these relationships Two distinct sections are apparent firstly those chapters which address

structure function relationships using a variety of food systems as examples to demonstrate the intricacies of this relationship and secondly those chapters which discuss techniques used to either examine structural parameters or aid in establishing quantitative relationships between protein structure and function The editors would like to thank all contributors for their assistance co operation and above all their patience in putting this volume together and the following companies organizations for their financial support without which it would not have been the success it was Ault Foods Limited Best Foods Canada Limited Natural Sciences and Engineering Research Council of Canada Ontario Ministry of Agriculture and Food Quest International Canada Inc and University of Guelph R Y Y R LJ      **Protein Structure** Thomas E. Creighton,1995

**Proteins: Structure and Function** Albert Light,1974      *Protein Function* Thomas E. Creighton,1989 Concentrating on the aspects of protein function that are common to the majority of proteins this collection of methods is brought together for reseachers who are without access to expensive equipment Using these protocols researchers will be able to get information about the functional properties of any protein A companion volume *Protein Structure A Practical Approach* also edited by Thomas Creighton provides the methods necessary for the study of protein strucutre      **The Proteins Composition, Structure, and Function V4** Hans Neurath,2012-12-02 The Proteins Composition Structure and Function Second Edition Volume IV covers the significant developments in understanding the relationships between the composition structure and function of proteins This three chapter volume deals first with the genetic determination of protein structure and with the effects of mutational alteration on the structure and function of proteins A highly relevant aspect of this topic is the change in protein structure during evolution and cell development The second chapter describes the basic structure of several glycoproteins such as orosomucoid egg albumin and submaxillary gland glycoprotein The third chapter highlights the features of composition and arrangement of the group protein which impart the capacity to perform their physical function This book is of value to organic chemists biochemists and researchers in the protein related fields      Protein Structure Harold Abraham Scheraga,1961      *Fundamentals of Protein Structure and Function* Engelbert Buxbaum,2015 This book serves as an introduction to protein structure and function Starting with their makeup from simple building blocks called amino acids the 3 dimensional structure of proteins is explained This leads to a discussion of how misfolding of proteins causes diseases like cancer various encephalopathies or diabetes Enzymology and modern concepts of enzyme kinetics are then introduced taking into account the physiological pharmacological and medical significance of this often neglected topic This is followed by thorough coverage of h moglobin and myoglobin immunoproteins motor proteins and movement cell cell interactions molecular chaperones and chaperonins transport of proteins to various cell compartments and solute transport across biological membranes Proteins in the laboratory are also covered including a detailed description of the purification and determination of proteins as well as their characterisation for size and shape structure and molecular interactions The book emphasises the link between protein structure physiological function and medical significance This book can be used

for graduate and advanced undergraduate classes covering protein structure and function and as an introductory text for researchers in protein biochemistry molecular and cell biology chemistry biophysics biomedicine and related courses About the author Dr Buxbaum is a biochemist with an interest in enzymology and protein science He has been working on the biochemistry of membrane transport proteins for nearly thirty years and has taught courses in biochemistry and biomedicine at several universities      Protein Structure Lauren M. Haggerty,2011      **Visible Volume** Loredana Lo Conte,2000

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