

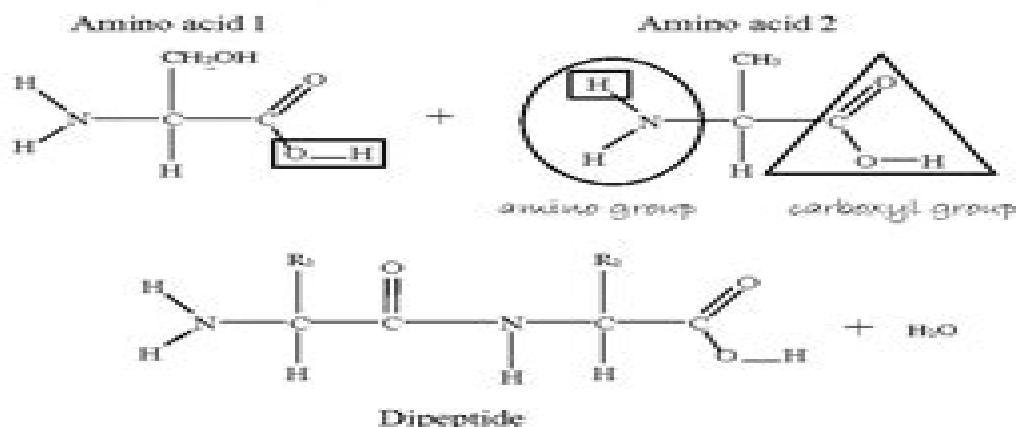
# Protein Structure

What are the levels of protein structure and what role do functional groups play?

## Why?

Proteins accomplish many cellular tasks such as facilitating chemical reactions, providing structure, and carrying information from one cell to another. How a protein chain coils up and folds determines its three-dimensional shape. Its shape will, in turn, determine how it interacts with other molecules and thus performs its function in the cell.

## Model 1 – Formation of a Peptide Bond



1. Examine the amino acids in Model 1.
  - a. Circle an amine group in the diagram.
  - b. Draw a triangle around a carboxylic acid (carboxyl) group.
2. How are the amino acids similar to one another?

The amino acids all have a N-C-C backbone and an amino and carboxyl group.

3. How are the amino acids different from one another?

Their R-groups are different from one another.

# Pogil Activities Protein Structure

**S Marginson**



## **Pogil Activities Protein Structure:**

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