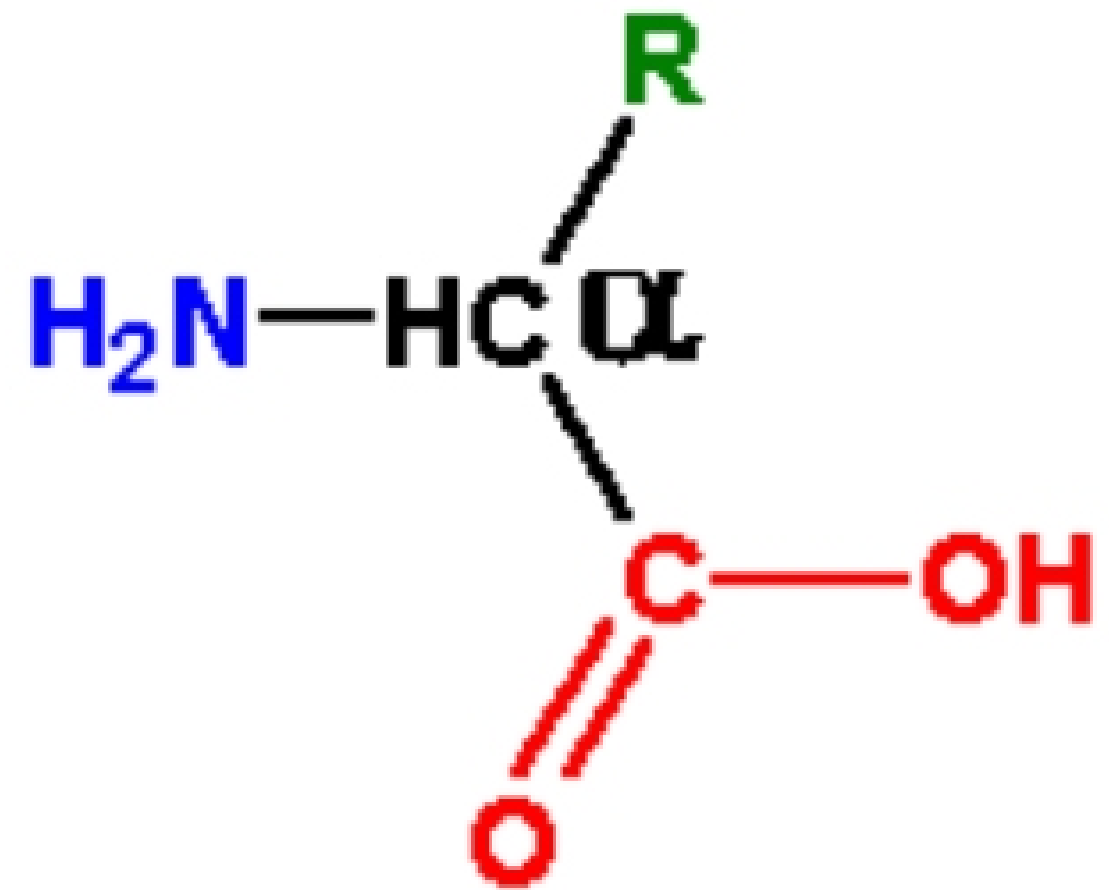


Protein Structure and Function

Enzymes, Metabolism and More

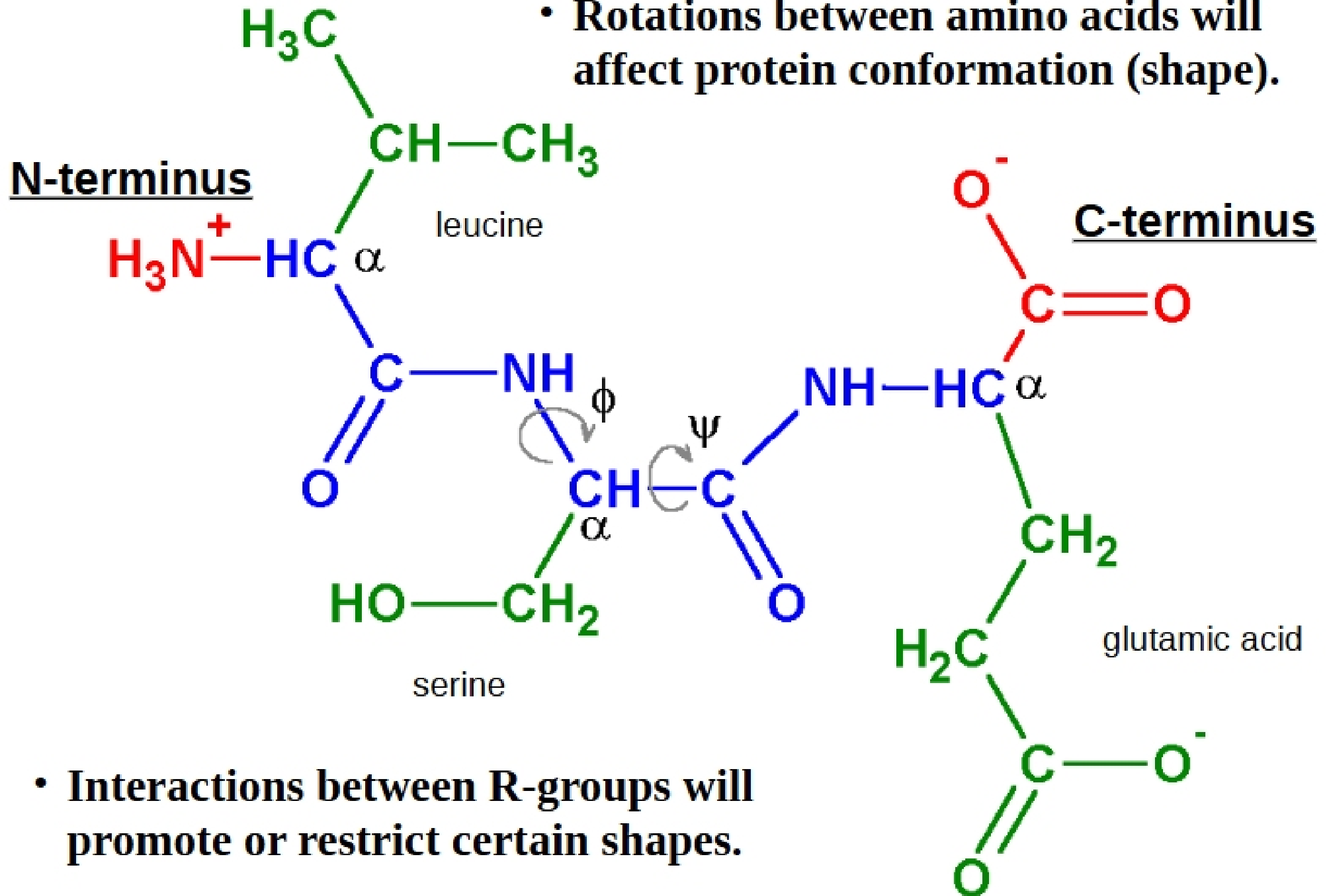
Amino Acids

L- α -AMINO ACIDS	
_____r	_____r
Alanine	Arginine
Glycine	Asparagine
Isoleucine	Aspartic acid
Leucine	Cysteine
Methionine	Glutamic acid
Phenylalanine	Glutamine
Proline	Histidine
Tryptophan	Lysine
Valine	Serine
	Threonine
	Tyrosine



- **R-group defines the properties of the amino acid**
- **20 different amino acids**
- **proteins are linear chains of amino acids**
- **amino acids joined via amino and acid groups**

- Rotations between amino acids will affect protein conformation (shape).



- Interactions between R-groups will promote or restrict certain shapes.