

Protein Functions:

- **Structure**: such as tubules, actins and microtubules
- **Sensors**: Initiate change inside of the cell by relaying information.
- **Enzymes**: can metabolize chemical reactions
- **Regulation**: Proteins can be activators or silencers for genes which allows gene expression to be controlled. They can also modify the function of other proteins and turn them on or off.
- **Signaling**: Proteins act as signals as well as the receptors for communication between cells. They are also the transduction pathways that interpret those signals.

Protein Structures:

- 1) Primary structure:
 - The linear array of amino acids.
 - There is an **amino end (N-terminus)** and a **carboxyl end (C-terminus)**.
 - Between each amino acid residue is a peptide bond holding it together into a chain
 - The peptide bond is between a C-terminus and an N-terminus, it is a C-N bond

Proteins are composed of amino acids

- amino acids are attached in a **linear array** to create the **primary structure** of the protein = a **polypeptide**

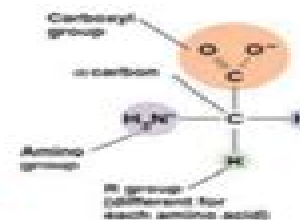


- 20 different amino acids are incorporated into newly synthesized polypeptide

Amino Acids:

- Each amino acid has a similar structure around the central **Alpha carbon**.
- They all consist of:
 - 1) Hydrogen
 - 2) Amino group (H_2N^+)
 - 3) Carboxyl group
 - 4) Variable R-group
- The **variable group of each individual amino acid will dictate that amino acid's properties BUT the accumulated R groups will define the properties of the entire polypeptide.**

What is an amino acid?



variable R group
(or side chain)

It is the properties of the side chains (R) that affect protein structure and function

Amino Acid Side Chains:

- The side chains of amino acids will dictate their characteristics and will change how the amino acid is classified.
- These side chains differ in:

Biology Study Guide Genetic Engineering

W. J. Leverich



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tenshinshō den katori shintō ryū was founded by iizasa choisai ienaō during the mid muromachi era 1336 1573 in the katori region of shimōsa province present day katori city chiba prefecture and is the source from which many japanese martial arts have evolved iizasa choisai ienao choisai sensei at approximately sixty years of age

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katori shinto ryu a martial tradition this art is one of the oldest japanese martial arts founded in 1447 it is an intangible cultural asset and is an officially recognised ryu of the nihon kobudo shinkokai classical martial arts promotion association it has been the source for and has influenced the development of many other arts and sports such as kendo iaido jujutsu and

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tenshin shōden katori shintō ryū 天心新伝 天心新伝 que transliterado significa el verdadero método de enseñanza desde el cielo de la escuela shintoista de katori 1 es una antigua escuela tradicional de arte marcial japonés o koryū bujutsu

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the tenshin shōden katori shintō ryū is a comprehensive martial system this means that unlike modern martial ways such as kendo or iaido which concentrate on one specific area study is made of a broad range of martial and outdoor skills

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the main line of tenshin shōden katori shintō ryū is currently represented by the kyōsō shibu led by kyōsō shigetoshi 6 Ōtake risuke s younger son the honbu dojo is located at iizasa yasusada s home near the katori shrine and is used by branches in

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la fondation de la tradition katori shintō ryū repose sur une révélation celle de futsu nushi no kami 天心新伝 reçue par le fondateur lors d'une ascèse de mille jours sen nichigyō misogi dans le sanctuaire du katori jingū d'où le nom de l'école qui

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training in kenjutsu swordsmanship iaijutsu sword drawing naginatajutsu halberd art sōjutsu spearmanship bojutsu staff art jujutsu unarmed combat shurikenjutsu throwing spike art and ninjutsu

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sep 19 2023 it is one of the three major streams and is the oldest among japanese martial arts that have been handed down in its original form to this day 4 it is a comprehensive strategy that covers a number of martial arts and taijutsu including swordsmanship iajutsu bongjutsu yojutsu naginatajutsu spearjutsu jujutsu and shurikenjutsu

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