

Cell Bio – Chapter 3

Protein Structure and Function

- Levels of protein hierarchy
 - Primary structure – sequence of amino acids
 - Secondary structure – alpha helix, beta pleated sheet – initial folding pattern
 - Based on the types of R groups, polypeptides will tend to form helices, beta-pleated sheets, or “unordered” structures
 - Fold into higher order, 3D structures in particular ways
 - Tertiary structure – whole molecule folding
 - Quaternary structure – molecule interactions
 - In addition to having particular amino acids to generate particular 3D structures, some proteins have structural motifs that have been reused through evolution to perform particular functions
 - Coiled-coil motif
 - EFhand/helix-loop-helix motif
 - Zinc-finger motif
- Most proteins interact with other proteins and cellular structures to form higher order structures that enable them to perform sophisticated biological functions
 - Ribosomes
 - Mediated complexes involved in gene transcription
 - RNA polymerase, general transcription factors, and mediator complex all interact with a promoter to form the transcription preinitiation complex
 - In addition to “intrinsic” structural features of the proteins (and the partners to which they bind), there are extensive **post-translational modifications** (such as phosphorylation/dephosphorylation) that are important in governing the formation of these higher order structures
- Advantages of assembly of proteins into multi-protein complexes?
 - Localization
 - Efficiency
 - Specificity
 - Regulation
 - ** Individual, separate reactions vs. coupled reactions where the products immediately become reactants in a new reaction
 - Multi-enzyme complex
 - Multifunctional proteins
 - Similar principles apply to association with membranes, which can also control vectoral movement of substrates and products, and for processes such as **ion pumps**
 - There are also cases where the structure of the protein is adapted to enhance the interactions
 - Antibodies
 - Disulfide bonds
 - Evolved the ability to create a structure to identify **MANY** antibodies

Structure Function Regulation Of Molec

Sebastian Brünink



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Structure Function Regulation Of Molec Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Structure Function Regulation Of Molec**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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