

# Biophysics : Aspects of Amino Acids Sequence in Proteins and Nucleotide Sequence in Nucleic Acids

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**Abstract:** Protein is the polypeptide chain of amino-acid sequence. Proteins of all species, from bacteria to humans, are made up from the same set of 20 standard amino acids. In order to carry out their function they must take a particular shape which is known as fold. All the enzymes hormones and antibodies are also proteins. To treat certain toxic-microorganism or invader we need certain antigen-antibody complex in the organisms. Just as amino-acid sequence forms the proteins, the polynucleotide sequence forms the nucleic acids. The gene is a part of DNA macromolecule responsible for the synthesis of protein chains. There are 20 amino-acids responsible for the formation of protein and 4 nucleotides responsible for the formation of DNA (RNA). Therefore, we can say that protein text is written in 20-letter and the DNA (RNA) text is written in 4-letter language. The information contained in genes in DNA is transferred to mRNA during transcription.

**Keywords:** polypeptide chain, globular and fibrous proteins, neurotransmitters, chemical kinematics, misfolded proteins, conformational change, activation energy, entropy, active centers, transcription, enzymatic catalysis, haptens.

## 1. INTRODUCTION

Proteins are invariable participants in all life processes which control the metabolic and bio-energetic processes. Proteins are involved in the storage, transfer, transformation, recoding and reception of chemical signals in macromolecules, molecules and ions of living systems. DNA replication, transcription of genetic information from DNA to mRNA and transfer of the information encoded in the mRNA are the main functions of protein.

## 2. PROTEINS

Protein is the polypeptide chain of amino-acid sequence. Proteins of all species, from bacteria to humans, are made up from the same set of 20 standard amino acids. Nineteen of these amino acids are with a primary amino group (-NH<sub>2</sub>-) and a carboxylic acid (carboxyl; -COOH-) group attached to a central carbon atom. On the side of the central carbon; a hydrogen atom and a variable side-chain or 'R' group are attached. This 'R' group determines the type of amino-acid. The bonding between amino group (-NH<sub>2</sub>-) of one amino-acid and a carboxylic

acid (carboxyl; -COOH-) of another amino-acid is called peptide bonding. The one exception to this general structure is proline, which has a secondary amino group and is really an  $\alpha$ -imino acid. The names of the amino acids are often abbreviated to three letters, for example, proline is abbreviated to Pro.

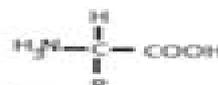


Fig.1 Free amino-acid



Fig.2 Peptide bonding

From the structural aspects, proteins can be grouped into globular and fibrous proteins. Fibrous proteins are soluble in water because they have high amount of polar molecules on the surface which are hydrophilic in nature. Globular proteins are insoluble in water because they have globular or hydrophilic molecules in excess amount at their surface.

Some fibrous proteins are:

- i. Myosins: Proteins of contractile muscle
- ii. Collagens: found in bones, teeth, skin, connective tissues...etc.
- iii. Fibrin: found in blood clot

# Aspects Of Biophysics

**P Narayanan**



## **Aspects Of Biophysics:**

*Aspects of Biophysics* William Hughes, William T. Hughes, 1979      **Essentials Of Biophysics** P Narayanan, 2000

Biophysics Is An Interdisciplinary Subject A Bridge Between Physical And Natural Sciences Recent Advances In Physical Sciences And Progress That Are Taking Place In Biological And Medical Sciences Are Making Them More Data Rich And Has Brought The Subject Of Biophysics To The Center Stage The Subject Of This Book Is Thus Conceived And Presented Taking Into Account These Developments To Reach Out To The Students And Scholars With Biological And Medical Background To Make Them Knowledgeable About The Physical Principles And Techniques That Are Becoming An Integral Part Of Their Subjects And To Inculcate The Quantitative Approach In Natural Sciences Which Is The Essential Part Of Physical Sciences This Book Is Also Aimed At The Physical Sciences Faculties To Bring To Their Awareness The Structural And Functional Aspects Of Biological Entities And The Complexity And The Emerging Trends In Natural Sciences In Essence This Book Is To Reach Out To The Students Of Physical Sciences Also Whose Convergent Interest Is In The Biological Medical Sciences The Book Contains All The Core Topics In Biophysics Presented In A Lucid Manner Emphasizing The Quantitative Approach Towards Biological Medical And Allied Subjects Overviews To Sections And Synopses To Chapters Are Provided To Present The Subject Matter And Concepts In A Condensed Format Appendices Glossary And Index Are Included To Make The Book Self Contained And To Facilitate The Reader A Quick Perusal Of Technical Concepts And Terms      **Biophysics of the Senses** Tennille D Presley, 2016-12-21 Biophysics of the Senses connects fundamental properties of physics to biological systems relating them directly to the human body It includes discussions of the role of charges and free radicals in disease and homeostasis how aspects of mechanics impact normal body functions human bioelectricity and circuitry forces within the body and biophysical sensory mechanisms This is an exciting view of how sensory aspects of biophysics are utilized in everyday life for students who are curious but struggle with the connection between biology and physics      **Aspects Of Biophysics** W. Hughes,      *Applied Biophysics* Thomas Andrew Waigh, 2007-09-11 This book presents the fundamentals of molecular biophysics and highlights the connection between molecules and biological phenomena making it an important text across a variety of science disciplines The topics covered in the book include Phase transitions that occur in biosystems protein crystallisation globule coil transition etc Liquid crystallinity as an example of the delicate range of partially ordered phases found with biological molecules How molecules move and propel themselves at the cellular level The general features of self assembly with examples from proteins The phase behaviour of DNA The physical toolbox presented within this text will form a basis for students to enter into a wide range of pure and applied bioengineering fields in medical food and pharmaceutical areas      *Biophysical Aspects of Transmembrane Signaling* Sandor Damjanovich, 2005-11-04 Transmembrane signaling is one of the most significant cell biological events in the life and death of cells in general and lymphocytes in particular Until recently biochemists and biophysicists were not accustomed to thinking of these processes from the side of a

high number of complex biochemical events and an equally high number of physical changes at molecular and cellular levels at the same time Both types of researchers were convinced that their findings are the most decisive having higher importance than the findings of the other scientist population Both casts were wrong Life even at cellular level has a number of interacting physical and biochemical mechanisms which finally build up the creation of an excited cell that will respond to particular signals from the outer or inner world This book handles both aspects of the signalling events and in some cases tries to unify our concepts and help understand the signals that govern the life and death of our cells Not only the understanding but also the interference e g medication may depend on the full knowledge of both sides These above statements are supported by the application of highly diverse physical and biochemical technologies demonstrated and explained by experts who are pioneers of their particular scientific field

**Biophysics** Wayne F. Reed, 2025-03-05 An introduction to the physics of living organisms The field of biophysics employs the principles of physics to study biological systems and introduces the concept of the living state It is a multidisciplinary approach to the study of the living state combining physics biochemistry molecular and cell biology medicine and engineering The physics of macromolecules and macromolecular assemblies is a particularly important aspect of this broader field Biophysics Physical Processes Underlying the living state offers an introduction to the general principles of the living state and their biological applications Beginning with an historical overview of fundamental scientific theories and fields the book then provides a brief introduction to cell biology and biochemistry and then an overview of basic thermodynamics kinetics information theory electrostatics in solution fluid mechanics and macromolecular physics and their relationship to the living state After a presentation of physical methods with an emphasis on light scattering different biological macromolecules selected aspects of their functions and their physical properties and interactions are surveyed A brief introduction to vision biomotion and theoretical biology is also provided Exploration of some frontier issues in prebiotic origins of life consciousness and astrobiology round out the book The result is a multifaceted window into the broad and evolving field of biophysics Biophysics readers will also find Problems at the conclusion of each chapter to reinforce and focus student knowledge A gathering of topics in basic physics and physical chemistry which are seldom found in a single source This textbook is suitable for physics and engineering students studying biophysics macromolecular science and biophysical chemistry as well as for polymer scientists chemists biochemists cell and molecular biologists bioengineers and others

Elements of Biophysics James Edwin Randall, 1962 *Molecular Biophysics* M Volkenstein, 2012-12-02 Molecular Biophysics presents the fundamental principles of biophysics and their application to the study of the physical properties of biological macromolecules The merger of biology and physics involves the development of sophisticated instrumentation and the molecular approach to the study of life phenomena This book is composed of nine chapters and begins with an overview of the thermodynamical aspects and chemical foundations of biophysics These topics are followed by the physical aspects of macromolecules with a particular emphasis on the biological

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**Biophysics Handbook** Brandon Hanks,2015 Biophysics is a broad inter disciplinary subject which covers branches of biology physics and computational biology This book provides insight into a wide variety of subjects which cover molecular physiological and structural aspects It is a compilation of the works of experts from all around the world emphasizing on important aspects of biophysics It also highlights new techniques and their applications in varied fields Though the field of biophysics is in a phase of constant evolution with new innovations coming up every day the topics that have been discussed in this book are current and practically applicable especially in the fields of biology and related fields like medicine and agriculture

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**Nanobiophysics** Victor A. Karachevtsev,2016-01-05 Nanobiophysics is a new branch of science that operates at the interface of physics biology chemistry material science nanotechnology and medicine This book is the first one devoted to nanobiophysics and introduces this field with a focus on some selected topics related to the physics of biomolecular nanosystems including nucleosomal DNA and

**American Journal of Physics** ,1947 **Progress in Physics, vol. 1/2009** Dmitri Rabounski ,Florentin Smarandache,Larissa Borissova, Progress in Physics has been created for publications on advanced studies in theoretical and experimental physics including related themes from mathematics

Advanced Concepts in Biophysics Betty Karasek,2015 Biophysics is an upcoming field of science which has undergone rapid development over the past few decades This book covers a wide array of topics from the physiological as well as molecular aspects of life forms Most of the researches introduced in this book cover new techniques and the applications of biophysics The contributions made by the scientists and experts from across the globe focus on the major aspects of complexity of the biophysics and biological systems This book brings forth some of the most innovative concepts and elucidates the unexplored aspects of biophysics

**Progress in Physics, vol.2/2005** Dmitri Rabounski ,Florentin Smarandache, Larissa Borissova, Progress in Physics has been created for publications on advanced studies in theoretical and experimental physics including related themes from mathematics *Soviet Plant Physiology* ,1974 **Postgraduate medical education in India** Indian Association for the Advancement of Medical Education,1968

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