

# BIOMOLECULES STRUCTURE AND FUNCTIONS 1ST EDITION

BIOMOLECULES STRUCTURE AND FUNCTIONS 1ST EDITION BIOMOLECULES STRUCTURE AND FUNCTIONS 1ST EDITION A DEEP DIVE META EXPLORE THE FASCINATING WORLD OF BIOMOLECULES THIS COMPREHENSIVE GUIDE DELVES INTO THEIR STRUCTURE FUNCTIONS AND IMPORTANCE IN LIFE OFFERING ACTIONABLE INSIGHTS AND REALWORLD EXAMPLES BIOMOLECULES STRUCTURE FUNCTION BIOCHEMISTRY CARBOHYDRATES LIPIDS PROTEINS NUCLEIC ACIDS ENZYMES METABOLISM CELL BIOLOGY MOLECULAR BIOLOGY BIOMOLECULES EXAMPLES BIOMOLECULE STRUCTURE AND FUNCTION PDF BIOMOLECULES ARE THE FUNDAMENTAL BUILDING BLOCKS OF LIFE UNDERSTANDING THEIR STRUCTURE AND FUNCTION IS CRUCIAL TO GRASPING THE COMPLEXITIES OF BIOLOGICAL PROCESSES FROM CELLULAR RESPIRATION TO GENETIC INHERITANCE THIS FIRST EDITION PROVIDES A DETAILED EXPLORATION OF THE FOUR MAJOR CLASSES OF BIOMOLECULES CARBOHYDRATES LIPIDS PROTEINS AND NUCLEIC ACIDS 1 CARBOHYDRATES THE ENERGY SOURCE CARBOHYDRATES ALSO KNOWN AS SACCHARIDES ARE PRIMARILY COMPOSED OF CARBON HYDROGEN AND OXYGEN ATOMS IN A 121 RATIO THEY SERVE AS THE PRIMARY ENERGY SOURCE FOR LIVING ORGANISMS THEIR STRUCTURE VARIES SIGNIFICANTLY RANGING FROM SIMPLE MONOSACCHARIDES LIKE GLUCOSE AND FRUCTOSE TO COMPLEX POLYSACCHARIDES LIKE STARCH AND CELLULOSE MONOSACCHARIDES ARE CHARACTERIZED BY THEIR RING STRUCTURE WHILE POLYSACCHARIDES ARE LONG CHAINS OF MONOSACCHARIDES LINKED TOGETHER BY GLYCOSIDIC BONDS THE TYPE OF BOND AND THE BRANCHING PATTERN SIGNIFICANTLY INFLUENCE THE PROPERTIES AND FUNCTIONS OF THE POLYSACCHARIDE FOR EXAMPLE AMYLOSE A LINEAR STARCH IS READILY DIGESTIBLE WHILE CELLULOSE A LINEAR POLYMER WITH BETA LINKAGES IS INDIGESTIBLE BY HUMANS DUE TO THE LACK OF THE NECESSARY ENZYMES FUNCTION BEYOND ENERGY STORAGE GLYCOGEN IN ANIMALS STARCH IN PLANTS CARBOHYDRATES PLAY CRUCIAL ROLES IN CELL STRUCTURE CELLULOSE IN PLANT CELL WALLS CELL RECOGNITION GLYCOPROTEINS AND GLYCOLIPIDS AND CELL SIGNALING THE GLOBAL PRODUCTION OF CARBOHYDRATES FROM PHOTOSYNTHESIS ALONE IS ESTIMATED TO BE OVER 100 BILLION TONS ANNUALLY HIGHLIGHTING THEIR CENTRAL ROLE IN

THE BIOSPHERE SOURCE IPCC REPORTS 2 LIPIDS THE DIVERSE GROUP LIPIDS ARE A DIVERSE GROUP OF HYDROPHOBIC BIOMOLECULES CHARACTERIZED BY THEIR INSOLUBILITY IN 2 WATER THEY INCLUDE FATS OILS WAXES PHOSPHOLIPIDS AND STERIODS FATS AND OILS ARE TRIGLYCERIDES CONSISTING OF A GLYCEROL MOLECULE LINKED TO THREE FATTY ACID CHAINS THE LENGTH AND SATURATION OF THESE FATTY ACID CHAINS INFLUENCE THE PROPERTIES OF THE LIPID PHOSPHOLIPIDS THE MAJOR COMPONENT OF CELL MEMBRANES HAVE A HYDROPHILIC HEAD AND TWO HYDROPHOBIC TAILS STERIODS LIKE CHOLESTEROL HAVE A CHARACTERISTIC FOURRINGED STRUCTURE FUNCTION LIPIDS SERVE AS ENERGY STORAGE MOLECULES TRIGLYCERIDES STRUCTURAL COMPONENTS OF CELL MEMBRANES PHOSPHOLIPIDS HORMONES STERIODS AND INSULATION FATS THE STRUCTURE OF LIPIDS DIRECTLY INFLUENCES THEIR FUNCTION FOR EXAMPLE THE FLUIDITY OF CELL MEMBRANES IS REGULATED BY THE COMPOSITION OF FATTY ACIDS IN PHOSPHOLIPIDS DR PETER AGRES NOBEL PRIZE WINNING WORK ON AQUAPORINS WATER CHANNEL PROTEINS EMBEDDED IN CELL MEMBRANES HIGHLIGHTED THE CRUCIAL ROLE OF LIPID BILAYERS IN MAINTAINING CELLULAR HOMEOSTASIS 3 PROTEINS THE WORKHORSES PROTEINS ARE THE MOST DIVERSE CLASS OF BIOMOLECULES PERFORMING A VAST ARRAY OF FUNCTIONS WITHIN LIVING ORGANISMS THEY ARE POLYMERS OF AMINO ACIDS LINKED TOGETHER BY PEPTIDE BONDS THE STRUCTURE OF A PROTEIN IS CRUCIAL TO ITS FUNCTION IT IS DESCRIBED AT FOUR LEVELS PRIMARY AMINO ACID SEQUENCE SECONDARY ALPHAHELICES AND BETASHEETS TERTIARY 3D FOLDING AND QUATERNARY ARRANGEMENT OF MULTIPLE POLYPEPTIDE CHAINS THE UNIQUE FOLDING PATTERN IS DETERMINED BY THE PRIMARY STRUCTURE AND INFLUENCED BY INTERACTIONS BETWEEN AMINO ACID SIDE CHAINS FUNCTION PROTEINS ACT AS ENZYMES CATALYZING BIOCHEMICAL REACTIONS STRUCTURAL COMPONENTS COLLAGEN IN CONNECTIVE TISSUE TRANSPORT MOLECULES HEMOGLOBIN ANTIBODIES IMMUNE RESPONSE HORMONES INSULIN AND RECEPTORS THE HUMAN BODY IS ESTIMATED TO CONTAIN TENS OF THOUSANDS OF DIFFERENT PROTEINS EACH WITH A SPECIFIC FUNCTION UNDERSCORING THEIR VITAL ROLE IN MAINTAINING LIFE 4 NUCLEIC ACIDS THE INFORMATION CARRIERS NUCLEIC ACIDS DNA AND RNA ARE RESPONSIBLE FOR STORING AND TRANSMITTING GENETIC INFORMATION THEY ARE POLYMERS OF NUCLEOTIDES EACH CONSISTING OF A SUGAR A PHOSPHATE GROUP AND A NITROGENOUS BASE DNA IS A DOUBLE HELIX STRUCTURE WITH TWO COMPLEMENTARY STRANDS HELD TOGETHER BY HYDROGEN BONDS BETWEEN NITROGENOUS BASES ADENINE WITH THYMINE GUANINE WITH CYTOSINE RNA IS USUALLY SINGLESTRANDED AND EXISTS IN VARIOUS FORMS mRNA tRNA rRNA EACH

WITH A DISTINCT FUNCTION IN PROTEIN SYNTHESIS 3 FUNCTION DNA STORES THE GENETIC BLUEPRINT OF AN ORGANISM WHILE RNA PLAYS A CRUCIAL ROLE IN GENE EXPRESSION TRANSLATING THE GENETIC CODE INTO PROTEINS THE DISCOVERY OF THE DOUBLE HELIX STRUCTURE OF DNA BY WATSON AND CRICK REVOLUTIONIZED BIOLOGY AND PAVED THE WAY FOR UNDERSTANDING THE MECHANISMS OF HEREDITY AND GENETIC ENGINEERING ACTIONABLE ADVICE TO TRULY UNDERSTAND BIOMOLECULES FOCUS ON THE RELATIONSHIP BETWEEN STRUCTURE AND FUNCTION BUILD 3D MODELS UTILIZE INTERACTIVE ONLINE RESOURCES AND PRACTICE DRAWING THE STRUCTURES OF KEY BIOMOLECULES RELATE THE STRUCTURES TO THEIR PROPERTIES AND ULTIMATELY THEIR FUNCTIONS WITHIN BIOLOGICAL SYSTEMS BIOMOLECULES ARE THE FOUNDATION OF LIFE WITH EACH CLASS CARBOHYDRATES LIPIDS PROTEINS AND NUCLEIC ACIDS PLAYING A UNIQUE AND CRUCIAL ROLE THEIR INTRICATE STRUCTURES DICTATE THEIR FUNCTIONS RANGING FROM ENERGY STORAGE AND CELL STRUCTURE TO ENZYMATIC ACTIVITY AND GENETIC INFORMATION TRANSFER UNDERSTANDING BIOMOLECULES IS PARAMOUNT TO ADVANCING OUR KNOWLEDGE IN MEDICINE BIOTECHNOLOGY AND AGRICULTURE FAQs 1 WHAT IS THE DIFFERENCE BETWEEN DNA AND RNA DNA DEOXYRIBONUCLEIC ACID IS A DOUBLE STRANDED HELIX THAT STORES GENETIC INFORMATION LONG TERM RNA RIBONUCLEIC ACID IS TYPICALLY SINGLE STRANDED AND PLAYS VARIOUS ROLES IN GENE EXPRESSION INCLUDING CARRYING GENETIC INFORMATION FROM DNA TO RIBOSOMES mRNA TRANSFERRING AMINO ACIDS DURING PROTEIN SYNTHESIS tRNA AND FORMING PART OF THE RIBOSOME STRUCTURE rRNA THE KEY DIFFERENCES INCLUDE THE SUGAR DEOXYRIBOSE IN DNA RIBOSE IN RNA AND ONE OF THE BASES THYMINE IN DNA URACIL IN RNA 2 HOW DO ENZYMES WORK ENZYMES ARE BIOLOGICAL CATALYSTS PRIMARILY PROTEINS THAT SPEED UP BIOCHEMICAL REACTIONS BY LOWERING THE ACTIVATION ENERGY THEY ACHIEVE THIS BY BINDING TO SPECIFIC SUBSTRATE MOLECULES AT THEIR ACTIVE SITE FORMING AN ENZYME-SUBSTRATE COMPLEX THIS INTERACTION INDUCES CONFORMATIONAL CHANGES IN BOTH THE ENZYME AND SUBSTRATE FACILITATING THE REACTION ONCE THE REACTION IS COMPLETE THE PRODUCTS ARE RELEASED AND THE ENZYME RETURNS TO ITS ORIGINAL STATE 3 WHAT ARE THE DIFFERENT TYPES OF LIPIDS LIPIDS ENCOMPASS A BROAD RANGE OF MOLECULES INCLUDING TRIGLYCERIDES FATS AND OILS PHOSPHOLIPIDS MAJOR COMPONENTS OF CELL MEMBRANES STEROIDS HORMONES LIKE CHOLESTEROL AND TESTOSTERONE AND WAXES PROTECTIVE COATINGS EACH TYPE HAS A UNIQUE STRUCTURE AND 4 FUNCTION REFLECTING THEIR DIVERSE ROLES IN BIOLOGICAL SYSTEMS 4 WHAT IS THE IMPORTANCE OF

PROTEIN FOLDING CORRECT PROTEIN FOLDING IS ESSENTIAL FOR PROTEIN FUNCTION INCORRECT FOLDING CAN LEAD TO NON FUNCTIONAL PROTEINS OR EVEN AGGREGATION OF MISFOLDED PROTEINS WHICH CAN BE IMPLICATED IN VARIOUS DISEASES EG ALZHEIMERS DISEASE PARKINSONS DISEASE FACTORS INFLUENCING FOLDING INCLUDE THE PRIMARY AMINO ACID SEQUENCE INTERACTIONS WITH CHAPERONE PROTEINS AND THE CELLULAR ENVIRONMENT 5 HOW ARE BIOMOLECULES SYNTHESIZED BIOMOLECULE SYNTHESIS OCCURS THROUGH VARIOUS METABOLIC PATHWAYS OFTEN REQUIRING ENERGY INPUT ATP CARBOHYDRATES ARE SYNTHESIZED THROUGH PHOTOSYNTHESIS IN PLANTS AND GLUCONEOGENESIS IN ANIMALS LIPIDS ARE SYNTHESIZED VIA FATTY ACID SYNTHESIS AND ESTERIFICATION PROTEINS ARE SYNTHESIZED THROUGH TRANSLATION USING mRNA AS A TEMPLATE NUCLEIC ACIDS ARE SYNTHESIZED THROUGH DNA REPLICATION AND TRANSCRIPTION THESE PROCESSES ARE TIGHTLY REGULATED TO MAINTAIN CELLULAR HOMEOSTASIS AND RESPOND TO ENVIRONMENTAL CHANGES

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