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May 19 2019 biochemistry *red blood cell wikipedia* Mar 09 2021 a typical human red blood cell has a disk diameter of approximately 6 2 8 2  $\mu\text{m}$  and a thickness at the thickest point of 2 2 5  $\mu\text{m}$  and a minimum thickness in the centre of 0 8 1  $\mu\text{m}$  being much smaller than most other human cells these cells have an average volume of about 90 fl with a surface area of about 136  $\mu\text{m}^2$  and can swell up to a sphere shape containing 150 fl without

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**tobacco mosaic virus wikipedia** Jun 12 2021 tobacco mosaic virus tmv is a positive sense single stranded rna virus species in the genus tobamovirus that infects a wide range of plants especially tobacco and other members of the family solanaceae the infection causes characteristic patterns such as mosaic like mottling and discoloration on the leaves hence the name tmv was the first virus to be discovered

**rna wikipedia** Nov 24 2019 struttura dell rna l acido ribonucleico in sigla rna dall inglese ribonucleic acid meno comunemente in italiano anche arn in chimica è una molecola polimerica implicata in vari ruoli biologici di codifica decodifica regolazione ed espressione dei geni l rna e il dna sono acidi nucleici che insieme a proteine carboidrati e lipidi costituiscono le quattro principali

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**anabolism and catabolism definition and examples thoughtco** Sep 22 2019 feb 04 2020 anabolism and catabolism are the two broad types of biochemical reactions that make up metabolism anabolism builds complex molecules from simpler ones while catabolism breaks large molecules into smaller ones

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***cyanide poisoning wikipedia*** May 11 2021 cyanide poisoning is poisoning that results from exposure to any of a number of forms of cyanide early symptoms include headache dizziness fast heart rate shortness of breath and vomiting this phase may then be followed by seizures slow heart rate low blood pressure loss of consciousness and cardiac arrest onset of symptoms usually occurs within a few minutes

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**amminoacido wikipedia** Jul 01 2020 gli amminoacidi sono una vasta categoria di molecole organiche che hanno sia il gruppo funzionale amminico sia quello

carbossilico la parola amminoacido deriva dall'unione dei nomi di questi due gruppi funzionali siccome presentano contemporaneamente un gruppo acido quello carbossilico e un gruppo basico quello amminico sono definite molecole anfotere

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**fermentation wikipedia** Jul 13 2021 fermentation is a metabolic process that produces chemical changes in organic substrates through the action of enzymes in biochemistry it is narrowly defined as the extraction of energy from carbohydrates in the absence of oxygen in food production it may more broadly refer to any process in which the activity of microorganisms brings about a desirable change to a foodstuff

**protein metabolism wikipedia** Sep 15 2021 protein anabolism is the process by which proteins are formed from amino acids it relies on five processes amino acid synthesis transcription translation post translational modifications and protein folding proteins are made from amino acids in humans some amino acids can be synthesized using already existing intermediates these amino acids are known as non

**protein purification wikipedia** Dec 06 2020 protein purification is a series of processes intended to isolate one or a few proteins from a complex mixture usually cells tissues or whole organisms protein purification is vital for the specification of the function structure and interactions of the protein of interest

**genetics wikipedia** Jan 27 2020 genetics is the study of genes genetic variation and heredity in organisms it is an important branch in biology because heredity is vital to organisms evolution gregor mendel a moravian augustinian friar working in the 19th century in brno was the first to study genetics scientifically mendel studied trait inheritance patterns in the way traits are handed down from

**Ácido ribonucleico wikipedia la enciclopedia libre** Jun 24 2022 el ácido ribonucleico arn es un ácido nucleico formado por una cadena de ribonucleótidos 1 está presente tanto en las células procariotas como en las eucariotas y es el único material genético de ciertos virus los virus arn el arn se puede definir como la molécula formada por una cadena simple de ribonucleótidos cada uno de ellos formado por ribosa un fosfato y una

**guanosín trifosfato wikipedia la enciclopedia libre** May 23 2022 actividades metabólicas transferencia de energía el gtp está implicado en la transferencia de energía en el interior de la célula por ejemplo una molécula de gtp es generada en cada recorrido del ciclo de krebs su energía es equivalente a la de generar una molécula de atp de hecho es rápidamente convertida a este 2 traducción genética

**ribose 5 phosphate wikipedia** May 31 2020 ribose 5 phosphate r5p is both a product and an intermediate of the pentose phosphate pathway the last step of the oxidative reactions in the pentose phosphate pathway is the production of ribulose 5 phosphate depending on the body's state ribulose 5 phosphate can reversibly isomerize to ribose 5 phosphate

**glycogen wikipedia** Aug 22 2019 glycogen is a branched biopolymer consisting of linear chains of glucose residues with an average chain length of approximately 8 12 glucose units and 2 000 60 000 residues per one molecule of glycogen like amylopectin glucose units are linked together linearly by  $\alpha$  1 4

glycosidic bonds from one glucose to the next branches are linked to the chains from which

**macromolecule wikipedia Mar 21 2022** a macromolecule is a very large molecule important to biophysical processes such as a protein or nucleic acid it is composed of thousands of covalently bonded atoms many macromolecules are polymers of smaller molecules called monomers the most common macromolecules in biochemistry are biopolymers nucleic acids proteins and carbohydrates and large non

**atp hydrolysis wikipedia Oct 16 2021** atp hydrolysis is the catabolic reaction process by which chemical energy that has been stored in the high energy phosphoanhydride bonds in adenosine triphosphate atp is released after splitting these bonds for example in muscles by producing work in the form of mechanical energy the product is adenosine diphosphate adp and an inorganic phosphate p i

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**dna repair wikipedia Apr 29 2020** dna repair is a collection of processes by which a cell identifies and corrects damage to the dna molecules that encode its genome in human cells both normal metabolic activities and environmental factors such as radiation can cause dna damage resulting in tens of thousands of individual molecular lesions per cell per day many of these lesions cause structural damage to

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**ribonucleotide wikipedia Mar 29 2020** in biochemistry a ribonucleotide is a nucleotide containing ribose as its pentose component it is considered a molecular precursor of nucleic acids nucleotides are the basic building blocks of dna and rna ribonucleotides themselves are basic monomeric building blocks for rna

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**sugar phosphate backbone the school of biomedical sciences Aug 02 2020** figure 1 diagram showing the sugar phosphate backbone of dna and the nitrogenous bases attached to it forming a nucleotide structure of dna dna is wound into an right handed double helix the strands are anti parallel i e one runs 3 to 5 the other run 5 to 3 this is done by the sugar phosphate backbone twisting around itself in a coil

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*metabolic pathway wikipedia* Oct 28 2022 in biochemistry a metabolic pathway is a linked series of chemical reactions occurring within a cell the reactants products and intermediates of an enzymatic reaction are known as metabolites which are modified by a sequence of chemical reactions catalyzed by enzymes 26 in most cases of a metabolic pathway the product of one enzyme acts as the substrate for

biochemistry pdf pdf cell biology biochemistry scribd Aug 26 2022 for example a protein is a polymer whose subunits are selected from a set of 20 or more amino acids biochemistry studies the chemical properties of important biological molecules like proteins and in particular the chemistry of enzyme catalyzed reactions the biochemistry of cell metabolism and the endocrine system has been extensively

gene wikipedia Feb 08 2021 in biology the word gene from greek γένος génos meaning generation or birth or gender can have several different meanings the mendelian gene is a basic unit of heredity and the molecular gene is a sequence of nucleotides in dna that is transcribed to produce a functional rna there are two types of molecular genes protein coding genes and noncoding genes

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genetics a conceptual approach pierce benjamin a free Feb 26 2020 dec 27 2019 biochemistry by lubert stryer hardcover 322 86 only 3 left in stock order soon a conceptual approach a general genetics textbook now in its 7th edition which has been adopted for use by over 300 colleges and universities genetics essentials concepts and connections a brief genetics textbook and transmission and population

*signal transduction wikipedia* Nov 17 2021 signal transduction is the process by which a chemical or physical signal is transmitted through a cell as a series of molecular events most commonly protein phosphorylation catalyzed by protein kinases which ultimately results in a cellular response proteins responsible for detecting stimuli are generally termed receptors although in some cases the term sensor is used

flavin adenine dinucleotide wikipedia Dec 18 2021 in biochemistry flavin adenine dinucleotide fad is a redox active coenzyme associated with various proteins which is involved with several enzymatic reactions in metabolism a flavoprotein is a protein that contains a flavin group which may be in the form of fad or flavin mononucleotide fmn many flavoproteins are known components of the succinate dehydrogenase complex

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