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from dna to rna to proteins many genes encode protein products meaning that they specify the sequence of amino acids used to build a particular protein before this information can be used for protein synthesis however an rna copy transcript of the gene must first be made a ribosome is an intercellular structure made of both rna and protein and it is the site of protein synthesis in the cell the ribosome reads the messenger rna mrna sequence and translates that genetic code into a specified string of amino acids which grow into long chains that fold to form proteins university of trento mattarello italy rna binding proteins rbps are key players in the regulation of gene expression in this chapter we discuss the main protein rna recognition modes used by rbps in order to regulate multiple steps of rna processing translation rna protein initiation protein synthesis begins with the formation of an initiation complex translation begins with a methionine elongation the a site binds

incoming charged aminoacyl trnas the p site binds charged trnas carrying amino acids termination a nonsense codon uaa fundamentals three main types of rna are involved in protein synthesis they are messenger rna mrna transfer rna trna and ribosomal rna rna mrna mrna is transcribed from dna and contains the genetic blueprint to make proteins prokaryotic mrna does not need to be processed and can proceed to synthesize proteins immediately methods to study rna protein interactions abstract noncoding rna sequences including long noncoding rnas small nucleolar rnas and untranslated mrna regions main rna and proteins are interconnected biomolecules that can promote each other's life cycles and functions through expanding the nature education 1 1 101 how does the cell convert dna into working proteins the process of translation can be seen as the decoding of instructions for making proteins involving mrna in rna is needed to help carry out the instructions in dna like dna rna is made up of nucleotide consisting of a 5 carbon sugar ribose a phosphate group and a nitrogenous base however there are three main differences between dna and rna rna uses the sugar ribose instead of deoxyribose proteins including all enzymes dna and rna have a curiously interconnected relation that appears ubiquitous in all organisms on earth today rna which can replicate itself as well as code for protein may be older than dna in the history of life translation is the rna protein part of the central dogma translation occurs at a ribosome during translation a protein is synthesized using the codons in mrna as a guide all three types of rna play a role in translation a ribosome is made out of rna and proteins and each ribosome consists of two separate rna protein complexes known as the small and large subunits the large subunit sits on top of the small subunit with an rna template sandwiched

between the two rna polymerase is the main transcription enzyme transcription begins when rna polymerase binds to a promoter sequence near the beginning of a gene directly or through helper proteins rna polymerase uses one of the dna strands the template strand as a template to make a new complementary rna molecule rna complex compound of high molecular weight that functions in cellular protein b synthesis and replaces dna as a carrier of genetic codes in some viruses rna b consists of ribose nucleotides and the nitrogenous bases adenine guanine cytosine and uracil learn about the structure types and functions of rna however most genes in a cell produce mrna molecules that serve as intermediaries on the pathway to proteins in this section we examine how the cell converts the information carried in an mrna molecule into a protein molecule ribonucleic acid rna is a polymeric molecule that is essential for most biological functions either by performing the function itself non coding rna or by forming a template for production of proteins messenger rna rna and deoxyribonucleic acid dna are nucleic acids trnas bind to mRNAs inside of a protein and rna structure called the ribosome as trnas enter slots in the ribosome and bind to codons their amino acids are linked to the growing polypeptide chain in a chemical reaction role of rna in protein synthesis role of rna in protein synthesis in all living cells the process of translating genetic information from dna into the proteins that do most of the work in a cell is carried out by molecular machines made of a combination of rna and protein

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