

## Chapter 29. RNA Synthesis and Processing

### 29.1 RNA Polymerases Catalyze Transcription

The fundamental reaction of RNA synthesis is the formation of a *phosphodiester bond*. The 3'-hydroxyl group of the last nucleotide in the chain *nucleophilically* attacks the *alpha* phosphoryl group of the incoming nucleoside triphosphate with the concomitant release of a *pyrophosphate*.

The reaction is thermodynamically favorable. The catalytic sites of RNA polymerases include *two metal ions (magnesium)*. One ion remains tightly bound to the enzyme, whereas the other ion comes in with the nucleoside triphosphate and leaves with the pyrophosphate. Three conserved aspartate residues participate in binding these metal ions.

The polymerization reactions catalyzed by RNA polymerases takes place within a complex in DNA termed a *transcription bubble*. This complex consists of double-stranded DNA that has been locally unwound in a region of approx. 17 base pairs. The edges of the bases are exposed in the unwound region.

The first nucleotide (the start site) of a DNA sequence to be transcribed is denoted as +1 and the second as +2; the nucleotide preceding the start site is denoted -1. *These designations refer to the coding strand of DNA*. The *template strand* of DNA is the complement of that of the RNA transcript. The *coding strand* of DNA has the same sequence as that of the RNA transcript except for thymine in place of uracil. The coding strand is known as the *sense (+) strand*, and the template strand as the *antisense (-) strand*. *RNA synthesis can start without the requirement of a primer*. Most newly synthesized RNA chains carry a highly distinctive tag on the 5' end: the first base is either pppG or pppA.

After initiation takes place, RNA polymerase elongates the nucleic acid chain in the following manner. Ribonucleoside triphosphate binds in the active site of the RNA polymerase, directly adjacent to the growing RNA chain. *The incoming ribonucleoside triphosphate forms a base pair with the template strand*. The 3'-hydroxyl group of the growing RNA chain, oriented and activated by the tightly bound metal ion, attacks the *alpha-phosphoryl group* to form a new *phosphodiester bond*, displacing pyrophosphate. To proceed to the next step, the RNA-DNA hybrid must move relative to the polymerase to bring the 3' end of the newly added nucleotide into proper position for the next nucleotide to be added. This translocational step does not include breaking any bonds and the addition of the next nucleotide drives the polymerization reaction forward.

The DNA-RNA hybrid can also move in the opposite direction. This is very important for *proofreading*. When the wrong base is being incorporated the bonds between these bonds is less energetically costly. After the polymerase has backtracked, the phosphodiester bond one base pair before the one that has just formed is adjacent to the metal ion in the active site. *In this position, a hydrolysis reaction in which a water molecule attacks the phosphate can result in the cleavage of the phosphodiester bond and the release of a dinucleotide that includes the incorrect nucleotide*. Final rate of error: one mistake per  $10^5$  nucleotides. This is higher than that of DNA synthesis, as the consequences of mistakes are less extreme.

# Chapter 29 Rna Synthesis And Processing

**Jeremy M. Berg,John L.  
Tymoczko,Lubert Stryer**



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web answer the last two lines very well explains the central theme of the poem that is the fact that human life is mortal while the beauty of nature remains eternal the brook says in these lines that human lives come to an end and another generation begins

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the poet has repeated certain lines in the poem what is this repetition called why is it used in this poem answer this repetition is called a

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web jun 30 2018 q1 who is i referred to as in the poem ans i in the poem is referred to as the brook although the writer of the poem is alfred tennyson but he has made the brook as the speaker of the poem q2 trace the journey of the brook ans

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web on the basis of your understanding of the poem answer the following questions by ticking the correct choice a the message of the poem is that the life of a brook is i temporary ii short lived iii eternal v momentary b the poet draws a parallelism between the journey of the brook with i the life of a man

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web jun 28 2020 answer the brook passes through thirty hills and fifty bridges during its journey before it finally joins the brimming river question 8 how is the journey of the brook similar to the human life board term 1 2012 set 32 52 answer the brook is immortal whereas the human life is transient