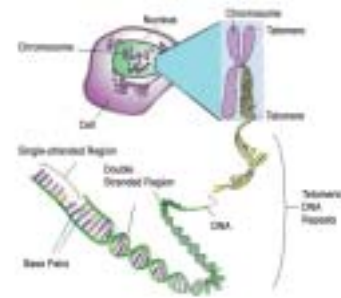


## Introduction

Nucleic materials encode the genetic information of living organism, from viruses to plant and mamalian cells, are localized in cytoplasm (bacteria) or organelles (nucleus, mitochondria, chloroplastes). The information is organized in genes, that are expressed in 3 processes:

Process	Key nucleic acids	Key events
Duplication	DNA -> 2 DNA	DNA serves as a template for the synthesis, by DNA polymerases, of new DNA, resulting in amplified materials
Transcription	DNA -> RNAs	DNA serves as a template for the synthesis, by RNA polymerases, of RNA species. This involves activation by transcription factors that bind to gene promoters. Also, Several posttranscriptional modifications occur on RNAs, to finally modulate the activity of generated proteins.
Translation	RNA -> Proteins	mRNA serves as templates for the synthesis, by Ribosomes (a complex of rRNAs and proteins), of proteins.



Interchim provides a large range of reagents for standard genomics techniques, and more specific tools for nucleic acid structure and function study, as well as for these key processes driving the gene and protein

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