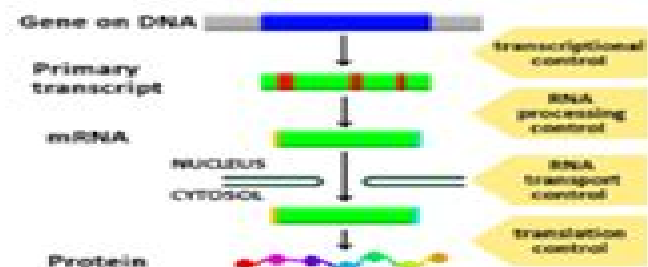


## Chapter 14 (14.1)

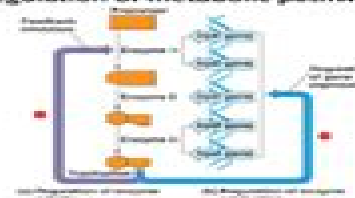
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### Why regulation of gene expression?

- Pulling it all together
  - Transcription starts at the transcription start site
    - Going to be given
    - Rna polymerase binds to the TSS
      - Reading 3' to 5'
    - Information is in the order of the bases
    - mRNA is made 5' end first
  - Translation starts at the start codon
    - Not usually right at the beginning of the 5' end
      - Becomes the 5' untranslated region
    - Start codon is where the ribosome binds
    - Stop codons dictate where translation stops
      - Doesn't have to be right at the end
        - 3' untranslated region
  - End with a polypeptide
    - Made of amino acids
    - Peptide bonds
    - N terminus made first
    - C terminus made last
- Regulation
  - Refers to the ability of cells to control their level of gene expression
    - Would be wasteful for all to be expressed all the time
  - Majority of genes regulated to ensure that gene products are produced at the correct time and in appropriate amount
  - Why?
    - Saves energy in the cell
      - By producing specific gene product only when needed
  - Not all genes are regulated
    - Constitutive genes have essentially constant levels of expression
  - Prokaryotes
    - Transcription and translation take place at the same time
  - Eukaryotes
    - Transcription first
      - Nucleus
      - Processing of the mRNA
        - Introns removed
        - Exons spliced together
        - Cap added on 5' end
          - Stability/ signal
        - Poly-a tail added on 3' end
          - Stability/ signal
      - Translation
      - Finished proteins
    - Pathway regulation
      - Feedback inhibition
        - Allosteric inhibition
          - Ex: negative regulation
            - When tryptophan accumulates it will turn off the pathway
            - Acts as the inhibitor
      - Regulation of gene expression
        - Doesn't produce the enzyme
        - Far more effective
          - Doesn't need to transcribe/ processed/ translated
    - Eukaryotes
      - Cell differentiation
        - Dependent on fine-tuning of gene expression



### Molecular Genetics: Part 28 Regulation of metabolic pathways:



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**BM King**



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