#### Chap. 19 Gene Mutation & DNA Repair

## Learning Outcomes:

Mutation: a <u>heritable change in the genetic material</u>; the structure of the DNA is permanently changed and that change is passed on to daughter cells in cell division and from parent to offspring in reproductive cells. (not about the outcome).

- We have previously discussed changes in chromosome numbers and structure (chromosome mutations and genome mutations). These are considered mutations because they are heritable.
- Now we are considering mutations in single genes and the consequences of these mutations.

### Gene mutations are molecular changes in the DNA sequence of a gene.

- Point mutation: a change in a single base pair within DNA.
  - Base substitution: a point mutation in which one base is substituted for another.
    - Transition: A base substitution of a pyrimidine for another pyrimidine (C to T) or a
      purine for another purine (A to G).
      - This is more common.
    - Transversion: A base substitution of a purine for a pyrimidine.
- Another type of mutation is when short sequences of base pairs are deleted or added to the chromosomal DNA.

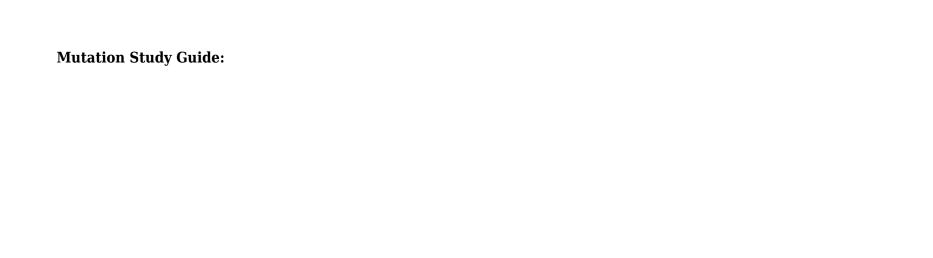
#### Mutations in the coding sequence of a gene may alter a polypeptide function.

Copyright C The McGraw HS Companies, Inc. Permission required for reproduction or display TABLE 16.1 Consequences of Point Nutations Within the Coding Sequence Biograph and Market Street Amino Acido: Likely Effect on in the State Engagedor? Section 1995 Proposition Propositions Champio Y-A1-GACCGACCCCAAACCC Met - The - Aug - Fee - Lys - Gly - The -VATGACCGACCCCAAACGGACCY \*Liberty Busine substitutions Met - The - Aug - Peo - Lys - Gly - The -Minutes. **Billions** Blover substitutions Y-A-1-G-C-C-G-A-C-C-C-G-A-A-G-G-G-A-C-C-T Met - Pro - Aug - Pro - Cys - Gly - Thr -Owner Manageral on Indiabations Busine sudoctifications 5-4-1-6 A C C G A C C C G T A A C G G A C C T Met - The - Aug - Per - 570P1 Milano Indulations. Y-A-T-G-A-C-C-G-G-C-C-G-A-A-G-C-G-A-C-C-T Bedreim B. Rt. Authorization Challenging Indulpitory. Met - Thr - App - Alia - Ghi - Arg - App -Minne

"DNA sequence in the coding streed. Note that this sequence is the same as the niRNA sequence except that the RNA contains unsold (ii) instead of thyrnine (I). The 3-base codings are shown in absorpting black and and colors. Mutations are shown in process.

# **Mutation Study Guide**

Zhe Xu



Unveiling the Energy of Verbal Artistry: An Emotional Sojourn through Mutation Study Guide

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