

Lab 7: Yeast Genetics

A mutation is a change in either DNA base pairs or a chromosome. They are essential for evolution (via natural selection) → can lead to change in phenotype

- Somatic mutation: affect only the individual itself
- Germ-line mutation (Germinal mutation): could be transmitted to the next generation producing an individual with the mutation in both his somatic and germ-line cells (ex: breast cancer)

Mutation rate is the rate at which various types of mutations occur during some unit of time (events/ time unit) - the probability of having the gene in the mutated form

Mutation frequency is the proportion of mutant cells in a population (events/ cell division)

Types of mutations:

- 1) Substitution (Point Mutation):
 - a) Silent thanks to genetic redundancy (when multiple codon sets code for the same amino acid)
 - b) Missense: change in aa that can lead to disease sometimes or not (ex: cancer)
 - c) Nonsense: change in aa that lead to a codon stop (UAA, UAG, or UGA) that stops transcription and hence translation
- 2) Insertion: addition of nucleotides
- 3) Deletion: removal of nucleotides
→ insertions and deletions can lead to frame shift which is very dangerous since it could change or stop the synthesis of various proteins

Causes of mutations:

- 1) **Spontaneous mutations:** naturally occurring mutations that are needed for evolution (through natural selection) such as DNA replication errors
- 2) **Induced mutations:** due to mutagens such as UV light, X-ray, Gamma rays, ... which can lead to duplication, inversion, translocation (nucleotides or codons moving to different parts of the same chromosome or different chromosomes), ...
 - When DNA is bombarded with *photons of X-ray or Gamma rays*, free radicals will form on DNA that causes the breakage of the phosphodiester bonds of DNA and changes in chunks of the DNA sequence. However, it can be repaired by certain enzymes, but they could fail to do that since they would become "tired"
 - When DNA is bombarded with *UV light* (types: UVA, UVB, UVC, with UVC being the worst), pyrimidine dimers (TT and CC) could form, forming bumps and so DNA polymerase would stop synthesis when it sees it ⇒ forms point mutations
Photolyase (in bacteria, yeasts, but not in humans) could repair

Genetics Lab Manual Yeast Answers

**David E. Sadava, Gordon H.
Orians, Craig Heller, William K. Purves**



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