

POINT MUTATION

SINGLE BASE IS CHANGED FOR ANOTHER
IN THE DNA OR RNA
MAY OR MAY NOT CODE FOR DIFFERENT
AMINO ACID

THE FAT CAT SAT
THE FAT **B**AT SAT

INSERTION MUTATION

ADDITION OF 1+ NUCLEOTIDES IN DNA
OR RNA CAUSES CODONS TO "SHIFT"
ALTERING AMINO ACID CODE

F
↓
THE FAT CAT SAT
THE **F**FA TCA TSA T

DELETION MUTATION

DELETION OF 1+ NUCLEOTIDES IN DNA
OR RNA ALSO CAUSES CODONS TO
"SHIFT" ALTERING AMINO ACID CODE

THE ~~F~~AT CAT SAT
THE **F**TC ATS AT

NONSENSE MUTATION

ONE OR MORE BASES ARE CHANGED
RESULTING IN AN EARLY STOP
CODON ENDING POLYPEPTIDE EARLY

TOP
↓
THE FAT CAT **S**AT
THE FAT CAT **STOP** AT

SILENT MUTATION

A BASE IS CHANGED BUT THE RESULTING
AMINO ACID IS STILL THE SAME AS THE
NORMAL DNA

THE FAT CAT **S**AT
THE FAT CAT **S**aT

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