Mutation – change in DNA

<u>Deletion</u> mutation – a base is removed from a gene

      ATTGCA becomes ATTGA (C is removed)

<u>Insertion</u> mutation – a base is added to a gene

      ATTGCA becomes ATTGTCA (a T is added)

<u>Point/Substitution</u> mutation – one base is switched with another base

      ATTGCA becomes ATTACA (the G is switched to an A)

<u>Silent point</u> mutation – the mutation does NOT change the amino acid

      ATGGCA – ATG = UAC is Tyr and GCA = CGU is Arg

      ATGGCG – GCG = CGC which also codes for Arg so there is no change