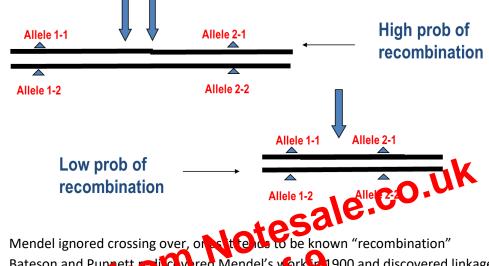
- Genetic loci physically close to one another on the same chromosome tend to stay together during meiosis, and are therefore genetically *linked*. This is called autosomal linkage.
- Even though loci may be physically linked on a chromosome, because crossovers occur, before the chromosomes segregate during meiosis, alleles on the same chromosome can be separated and go to different daughter cells.
- There is a greater probability of crossovers/recombination occurring if the alleles are far apart on the chromosome, as it is more likely that a crossover will occur between them.
- Alleles for genes on different chromosomes are not linked, due to independent assortment of chromosomes during meiosis.



- Bateson and Punnett real Covered Mendel's work in 1900 and discovered linkage soon after when they started to test in work
- Conseguence Éméiosis D20
 - Recombination: movement or genetic material between chromosomes (Prophase 1)
 Segregation: Even distribution of chromosomes during meiosis. One half of each
 - chromosome pair goes to each gamete (Anaphase 1)
- Genetic Linkage
 - Linked autosomal (Non-sex chromosomes)
 - Genes on same chromosomes, degree of segregation determined by crossing over
 - Sex Linked
 - Genes located on sex chromosomes e.g. White eyed fly on Drosophila X chromosome and colour-blindness on human X chromosome
- Recombination frequency
 - How often crossing over occurs is measured as the fraction or percentage of offspring that inherit recombinant chromosomes
 - These offspring are called "recombinants"
 - Recombinant chromosomes are chromosomes where the alleles of interest have been separated by a recombination event
 - Recombination frequency = (Number of recombinants / Total offspring) x 100