

GENETIC LINKAGE AND GENE MAPPING

Chromosome 16- MCRN1 gene: encodes for melanin, two kinds of melanin:

- **Eumelanin:** Black brown in color
- **Pheomelanin:** Reddish-brown in color; double recessive to be expressed

GENETIC LINKAGE

- **Bateson, Saunders, and Punnet-** first observed the possible linkage between genes through their experiment on sweet pea plants; They were able to replicate mendel
 - They crossed homozygous pea plants that had purple flowers and long pollen grains with homozygous plants that had red flowers.



Results to an F1: PpLl

Classic F2 ratio: 9:3:1 = 16

- However they theorized that flower color and pollen grain shape in sweet pea plant are "coupled" which resulted to deviation from Mendel's law of independent assortment

Table 1: Characteristics of the F₂ Generation

Phenotype	Expected	Observed	(Observed/Expected) ²
Purple, long	9/16	108	90.2
Purple, round	3/16	105	136.1
Red, long	3/16	117	156.2
Red, round	1/16	391	492.4
Total	25/16	2501	$\chi^2 = 881.9$

Image Source: Loba, I. & Gnan, K. (2020) Discovery and types of genetic linkage. Nature Education 11(1) 128

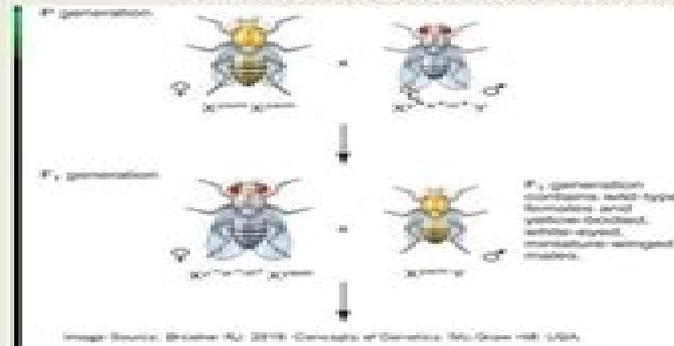
There is a deviation; statistical test for hypothesis testing above, chi square

These occur together resulting to these kind of deviation; THEORY: have not been able to have a deeper look

- **William Bateson-** coined the term genetic.
- **Reginald Punnet-** Punnet square

➤ Thomas Hunt Morgan

- Experimentally confirmed the "linkage" of certain genes which explains the deviation from Mendel's law of independent assortment
- He studied fruit fly (*Drosophila melanogaster*) as model organism pioneering studies (due to its shorter life cycle, small and cheap)
- He crossed two kinds of fruit fly



Wild type male would mean to have the + y- yellow

x- white eyes

m- miniature wings

Sex-linkage is discovered by Morgan

F ₂ generation	Females	Males	Total
Grey body, red eyes, long wings	430	333	763
Grey body, red eyes, miniature wings	205	193	398
Grey body, white eyes, long wings	1	0	1
Grey body, white eyes, miniature wings	5	5	10
Yellow body, red eyes, long wings	0	0	0
Yellow body, red eyes, miniature wings	0	0	0
Yellow body, white eyes, long wings	176	178	354
Yellow body, white eyes, miniature wings	205	205	410

Morgan explained that the higher proportion of the parental combinations is because all of the 3 genes are located on the (same) X chromosome and therefore tend to be transmitted together as a unit Parental phenotypes would predominate (blue box) second box is called 3 mutant as it all has the dominant traits

Genetic Linkage And Mapping Study Guide

Jane B. Taylor



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