

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 F<sub>2</sub> Generation

Phenotype	Expected	Observed	(Observed/Expected) <sup>2</sup>
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	21/16	2131	$\chi^2 = 883.9$

Image Source: Loba, I. & Glass, K. (2008) Discovery and types of genetic linkage. Nature Education 9(1): 128

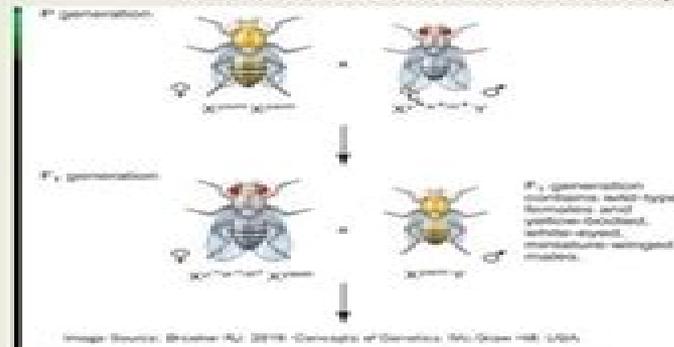
There is a deviation; statistical test for hypothesis testing above, chi square

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 <sub>2</sub> 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	179	178	357
Yellow body, white eyes, long wings	0	0	0
Yellow body, white eyes, miniature wings	305	305	610

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

**Neil A. Campbell**



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secondary zone athletics carnival hunter school of the - Feb 10 2023

web jun 6 2022 city zone athletics carnival monday 6th june 9am fearnley dawes athletic centre selected students from year 7 12 please find your own way to and from the venue students must compete in their school sport uniform 7mm spikes are

**2022 zone athletics carnival camden haven high school** - May 01 2022

web jun 27 2022 2022 zone athletics carnival 27 jun 2022 on friday the 24 th june camden haven high travelled to scotts head to compete in the zone athletics competition chhs had about 55 competitors there to run throw jump skip hop and hurdle

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web zone athletics the port stephens zone atheltics carnival was held at the hunter sports centre in glendale today we had 50 students accompanied by mr facebook

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web zone athletics carnival the zone pssa crossroads carnival will be held on wednesday 9th august at hunter sports centre glendale week 4 term 3 zone athletics notes will be distributed to our zone team at the end of this term or at the beginning of term 3 students are selected for zone on the fastest times recorded at the carnival

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web apr 19 2021 the 3v3 competition at the ministry of education s moe physical sports and outdoor education branch saw catholic high school 10 5 and xinmin secondary school 8 7 crowned north zone

zone and region championships little athletics nsw - Aug 04 2022

web central coast zone 9 10 december 23 mingara regional athletics centre hunter zone 2 3 december 23 maitland athletics track maitland lake macquarie zone 25 26 november 23 hunter sports centre glendale port hunter zone 25 26 november 23 fearnley dawes track newcastle order of events

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hunter region athletics carnival belmont high school - May 13 2023

web jul 26 2023 students successful at the zone athletics carnival will compete in the hunter region athletics carnival please refer to note attached for further details date wednesday 26 july 2023 time 8 30 am 3 pm attachment hunter region athletics carnival pdf 71kb location glendale athletics centre belmont high school

**netball zhenghua secondary school** - Apr 12 2023

web the b and c division team participated in the west zone netball tournament the m1 schools challenge league carnivals such as the neptops carnival and active carnival as well as friendly matches with other schools as a means to forge camaraderie and cooperation among its members the netball team organises events such as an annual

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web subject principles of management 101 class fybba sem i 2019 pattern prof kavita pareek dacc edu in 21 management principles can be applied to all types of activities a true b false 22 coordination is required at all levels of management in all management functions a true b false

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web feb 28 2021 b functional organization structure c matrix organization structure d free from organization structure 61 span of management may be wider in case of a where rate of change is fast b face to face communication is there

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web a planning b organizing c leading d controlling 4 which one of the following items best reflects the extent to which a society places a high value on reducing risk and instability a uncertainty avoidance b power distance c masculinity femininity d long term short term orientation

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