

# GENETIC VARIATION

## level one review

- DNA is a molecule made up of many nucleotides
  - nucleotide: deoxyribose sugar, phosphate group & one base A, T, C or G.
- 2 double helix antiparallel strands
- gene: a section of DNA that codes for a protein
- allele: alternative form of a gene
  - Can be dominant or recessive
- dominant: expressed even if its with a recessive allele
- recessive: only expressed when 2 copies are inherited
- genotype: 2 alleles someone has for a gene
- phenotype: physical expression of genotype

## test cross

- allows you to find out if an organism showing dominant characteristic is homo or heterozygous
- if any display recessive trait, must be heterozygous
- if none show recessive trait, likely to be homo dom but hetero is still possible
  - more tests increases certainty

## monohybrid crosses

- complete dominance: if a dominant allele is present, it will completely mask the recessive
- incomplete dominance: relationship between 2 alleles where neither is dominant over the other
  - phenotype is a mix of both characteristics
- codominance: a relationship between 2 alleles where both are dominant & both alleles are expressed fully
  - both proteins are produced & traits don't mix



## multiple alleles

- when there are more than 2 alleles for a gene.
- relationship between alleles are more complicated
  - e.g. blood type, 3 alleles & co-domin
- lethal alleles: when a mutation on an allele which will affect an organism's survival
  - causes essential protein to be non-functioning
- Some lethal alleles are fully dominant and if just one is in genotype, it can kill an individual
- Some alleles require 2 copies to be lethal
  - e.g.  $A^Y$  - lethal

	$A^Y$	$A$	
$A^Y$	$A^Y A^Y$ - incomplete	$A^Y A$ - brown embryo	
$A$	$A A^Y$	$A A$	





## epistasis

- epistasis: where one gene depends on another to be expressed
  - can prevent gene expression

## dihybrid crosses

- dihybrid crosses: look at the inheritance of 2 traits at the same time e.g. pea shape & pea colour (round R vs wrinkled r) (yellow Y, green y)

	YR	Yr	yR	yr
YR	YYRR	YYRr	YyRR	YyRr
Yr	YYRr	YYrr	YyRr	Yyrr
yR	YyRR	YyRr	yyRR	yyRr
yr	YyRr	Yyrr	yyRr	yyrr





  
 9 : 3 : 3 : 1

$$YyRr \times YyRr$$

- Cross of 2 unlinked heterozygotes will always have a phenic ratio of 9:3:3:1

# Genetics Notes

**Mr. Rohit Manglik**



## Genetics Notes:

Genetics Notes James Franklin Crow, 1983      *BIOS Instant Notes in Genetics* Hugh Fletcher, Ivor Hickey, 2012-11-27  
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