

Genes and Alleles

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details.]

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Allelesare various molecular forms of a gene for the trait.

Alleles

Example of alleles: If a gene is hair colour, one allele will be black hair, the other brown hair.

If the same alleles, they are called homozygous.

A homozygous pair of can be either dominant (AA) or recessive (aa).

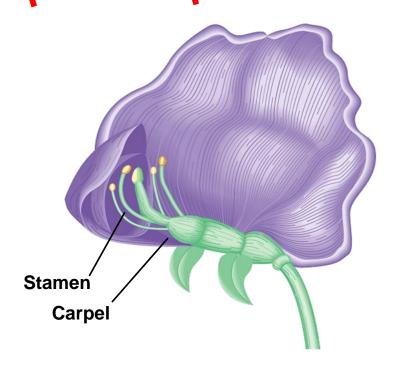
If alleles are different, they are called heterozygous.

Heterozygous alleles will have a dominant and a recessive allele (Aa).



Mendel's Principles

Modern genetics began will Oregon
Mendel's quantitative experiments with
peapreview page





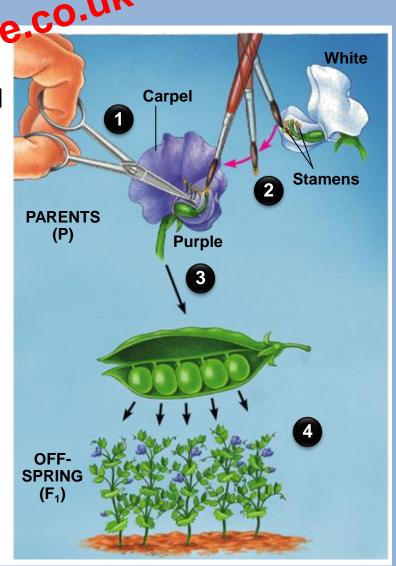


Mendel's Principles

- Mendel crossed pea plante that differed in certain characteristics and traced that liaits from orderation to generation.
- This illustration shows his technique for cross-fertilization.

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Removed stamens from purple flower.





Patterns of Inheritance in Humans

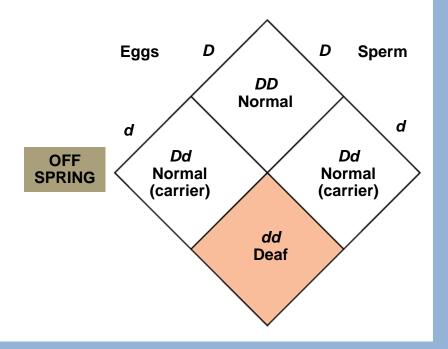
Many Inherited Disorders intermans are Controlled by a Single Gene

* Most such disorders are course.

 Most such disorders are caused by autosomal recessive alleles.

PARENTS Normal Normal Dd Normal

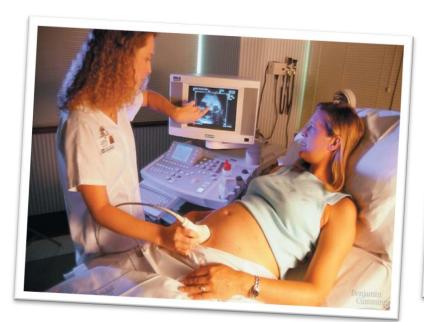
Examples: cystic fibrosis, sicklecell disease

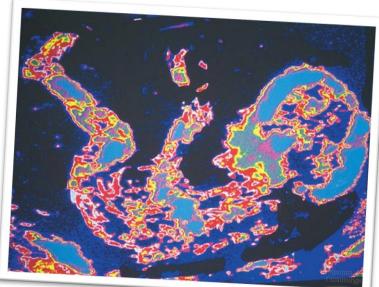




Patterns of Inheritance in Humans Fetal Testing Can Spot Manual Herited Disorders Early in Pregnancy The Preview 27 of 43 Examination of the fetus with ultrasound is another helpful

technique.





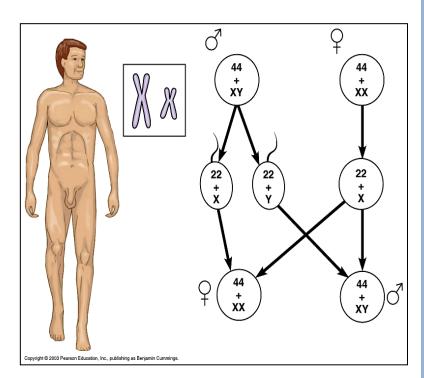


Variations On Mendel's Principles

5 Sex Chromosomes and Sex-linked Genes

Chromosophes determine many species

- A human male has one X chromosome and one Y chromosome.
- A human female has two X chromosomes.
- Whether a sperm cell has an X or Y chromosome determines the sex of the offspring.





Appendix

Appendix		to co.uk
	Figure	Notesale. Source
	Preview fr	Notes ale.co.uk Source http://www.docktopologo.com/wp
	Fig.8	http://www.desktopclass.com/wp-content/uploads/2011/02/ch10_0_b.gif
	Fig.9	http://www.acidalkalinediet.com/wp-content/uploads/2010/12/Blood-pH.jpg