Pedigrees

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2 Pedigree Basics

 A pedigree is a graphical representation of family trees showing the distribution of a genetic trait over several generations

Pedigree Basics

- Males are squares
- Females are round

4 Pedigree Basics

- A line between a square and a circle indicates mating (sex)
- This line shows success
- The squares and circles connected to that successful mating line are their children (1-6)

5 Pedigree Basics

 Light males and females do not have the disease or condition (ie. they are homozygous dominant AA or heterozygous Aa – a carrier)

Dark males and females have the disease or condition

(they are homozygous recessive aa)

6 Pedigree Basics

- If two light individuals mate and produce dark offspring (aa), what is their (the parent's) genotype?
 - a) Homozygous dominant
 - b) Heterozygous
 - c) Homozygous recessive